

R&S® Oscilloscopes

MXO5 & MXO5C

Open Source Acknowledgment

Software Version: 2.2.2.1



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Version 01.03

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- MXO5 and MXO5C

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1 Introduction

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bash	5.1.16	GPL-3.0-or-later License
bash-completion	2.11	GPL-2.0-only License
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=====
alsa-lib-1.2.6.1: src/socket.c, 9-24
=====

```
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Ty Coon, President of Vice

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```
=====
attr-2.5.1: tools/attr.c, 1-17
=====
```

```
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 */
```

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

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```

```
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*/
```

```
=====
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libassuan-2.5.6: COPYING.LIB
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=====
```

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Random Hacker.
```

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

That's all there is to it!

```
=====
avahi-0.8: avahi-common/address.h, 1-25
=====
```

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

```
/**
```

```
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```

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***/

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

#include <inttypes.h>

=====
 avahi-0.8: avahi-core/dns.h, 1-23
 =====

#ifndef foodnshfoo

#define foodnshfoo

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***/

#include "rr.h"

=====
 avahi-0.8: avahi-daemon/main.c, 1-21
 =====

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***/

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

```
=====
avahi-0.8: avahi-client/client.h, 1-23
=====
```

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

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***/

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

```
=====
base-passwd-3.5.29: COPYING
=====
```

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```

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```
=====
bash-5.1.16: COPYING
binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
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```

binutils-2.38: bfd/COPYING
bzip2-1.0.8: COPYING
cairo-1.16.0: util/cairo-trace/COPYING-GPL-3
dosfstools-4.2: COPYING
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readline-8.1.2: COPYING
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```

```
=====
```

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Version 3, 29 June 2007

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binutils-2.38: include/COPYING
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source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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

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

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

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

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

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

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

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

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

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

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

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

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

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

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

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

```
=====
binutils-2.38: COPYING.LIB
gdb-11.2: COPYING.LIB
=====
```

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

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of this license document, but changing it is not allowed.

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

Preamble

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

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

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

complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

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

this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's

complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

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15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

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

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

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

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

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

That's all there is to it!

```

=====
binutils-2.38: COPYING3.LIB
gcc-runtime-11.4.0: COPYING3.LIB
gdb-11.2: COPYING3.LIB
gmp-6.2.1: COPYING.LESSERv3
libgcc-11.4.0: COPYING3.LIB
libunistring-1.0: COPYING.LIB
nettle-3.7.3: COPYING.LESSERv3
=====

```

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Version 3, 29 June 2007

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As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

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

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

The "Corresponding Application Code" for a Combined Work means the

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

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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Jean-loup Gailly jloup@gzip.org

Mark Adler madler@alumni.caltech.edu

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

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

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

```
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Files: mozilla/certdata.txt
       mozilla/nssckbi.h
```

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Copyright: Mozilla Contributors
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```
Comment: Original Copyright: 1994-2000 Netscape Communications Corporation
          (certdata.txt <= CVS Revision: 1.82)
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https://bugzilla.mozilla.org/show_bug.cgi?id=850003
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```
=====
coreutils-9.0: src/ls.c, 1-15
=====

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

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```
=====
cpprest-2.10.18: license.txt
=====
```

C++ REST SDK

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```
=====
cracklib-2.9.8: COPYING.LIB
libcap-ng-0.8.2: COPYING.LIB
=====
```

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```

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

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Theodore Ts'o
23-June-2007

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```

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

That's all there is to it!


```
=====
e2fsprogs-1.46.5: lib/ext2fs/ext2fs.h, 1-9
=====
```

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

```
=====
e2fsprogs-1.46.5: lib/e2p/e2p.h, 1-7
=====
```

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

```
=====
e2fsprogs-1.46.5: lib/uuid/uuid.h.in, 1-32
=====
```

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

```

=====
e2fsprogs-1.46.5: lib/uuid/COPYING
util-linux-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
=====

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```

```

=====
e2fsprogs-1.46.5: lib/et/et_name.c, 1-11
=====

/*

```

```

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```

```

=====
e2fsprogs-1.46.5: lib/ss/ss.h, 1-20
=====

```

```

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

```

```

=====
elfutils-0.186: debuginfod/debuginfod-client.c, 1-27
=====

```

```

/* Retrieve ELF / DWARF / source files from the debuginfod.
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   This file is part of elfutils.

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file-5.41: COPYING, 2-
=====
```

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=====
```

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flac-1.3.4: src/Makefile.am, 1-17
=====
```

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```
=====
flac-1.3.4: src/flac/main.c, 1-18
=====
```

```
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```

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

That's all there is to it!

```
=====
flac-1.3.4: src/plugin_common/all.h, 1-18
=====

/* plugin_common - Routines common to several plugins
 * Copyright (C) 2002-2009 Josh Coalson
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 *
```



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*/

```

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```

```
flac-1.3.4: include/FLAC/all.h, 65-70
```

```
=====
```

```
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```

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=====
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```
=====
flex-2.6.4: src/gettext.h, 1-17
=====
```

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```

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

```
/*
 * fontconfig/src/fcftypem.c
 *
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 */
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*/

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

/*

* This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
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*

* Equivalent code is available from RSA Data Security, Inc.
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 * except that you don't need to include two pages of legalese
 * with every copy.

*

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

*/

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

/******

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

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Version 3.1, 31 March 2009

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```
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```

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```
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```

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```
=====
gdk-pixbuf-2.42.10: COPYING
glib-2.0-2.72.3: COPYING
glib-2.0-2.72.3: gmodule/COPYING
glibc-2.35: COPYING.LIB
libgudev-237: COPYING
libndp-1.8: COPYING
libnsl2-2.0.0: COPYING
librsvg-2.52.10: COPYING.LIB
libtool-2.4.7: libltdl/COPYING.LIB
libxcrypt-4.4.33: COPYING.LIB
```



```

lmsensors-3.6.0: COPYING.LGPL
networkmanager-1.36.2: COPYING.LGPL
systemd-250.5: LICENSE.LGPL2.1
util-linux-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
xz-5.2.6: COPYING.LGPLv2.1

```

```

=====

```

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Version 2.1, February 1999

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```

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```

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

That's all there is to it!

```
=====
gdk-pixbuf-2.42.10: gdk-pixbuf/gdk-pixbuf.h, 1-26
=====
```

```
/* GdkPixbuf library - Main header file
 *
 * Copyright (C) 1999 The Free Software Foundation
 *
 * Authors: Mark Crichton <crichton@gimp.org>
 *          Miguel de Icaza <miguel@gnu.org>
 *          Federico Mena-Quintero <federico@gimp.org>
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 *
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 */

#ifndef GDK_PIXBUF_H
#define GDK_PIXBUF_H
```

```
=====
glib-2.0-2.72.3: glib/glib.h, 4-17
glib-2.0-2.72.3: gmodule/gmodule.h, 4-17
=====
```

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

```
=====
glib-2.0-2.72.3: docs/reference/COPYING
=====
```

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```
=====
glibc-2.35: LICENSES
=====
```

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```
=====
gnu-efi-3.0.14: gnuEFI/crt0-efi-arm.S, 4-16
gnu-efi-3.0.14: gnuEFI/crt0-efi-aarch64.S, 4-16
=====
```

```
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```

```
=====
gnu-efi-3.0.14: inc/efishellintf.h, 13-20
=====
```

```
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```

```

gnu-efi-3.0.14: lib/arm/math.c, 2-15
gnu-efi-3.0.14: lib/arm/initplat.c, 2-15
gnu-efi-3.0.14: lib/aarch64/math.c, 2-15
gnu-efi-3.0.14: lib/aarch64/initplat.c, 2-15
=====

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Version 3, 29 June 2007

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```

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

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```
=====
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```

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

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```
=====
```

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=====

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Version 2.1, February 1999

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Ty Coon, President of Vice
```

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```
=====
gpgme-1.17.1: src/gpgme.h.in, 1-23
=====
```

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

```
=====
gpgme-1.17.1: src/engine.h, 1-22
=====
```

```
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```
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```
harfbuzz-4.0.1: src/hb-ucd.cc, 1-15
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```

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```
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```

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```
=====
keymaps-1.0: keymap.sh, 5-5
=====
```

```
# SPDX-License-Identifier: GPL-2.0-only
```

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

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

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

We call this license the "Lesser" General Public License because it

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

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

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

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

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

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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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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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```
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```

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```
=====
libassuan-2.5.6: src/assuan.c, 1-20
=====
```

```

/* assuan.c - Global interface (not specific to context).
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 *
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 *
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 *
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 * License along with this program; if not, see <http://www.gnu.org/licenses/>.
 * SPDX-License-Identifier: LGPL-2.1+
 */

```

```

=====
libassuan-2.5.6: src/assuan-defs.h, 1-20
=====

```

```

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

```

```

=====
libblockdev-2.26: LICENSE
libbytesize-2.6: LICENSE

```


=====
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Version 2.1, February 1999

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

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

That's all there is to it!

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libdaemon-0.14: libdaemon/daemon.h, 9-21
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libdrm-2.4.110: xf86drm.c, 9-32
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```
=====
libidn2-2.3.2: COPYING.unicode
=====
```

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```
=====
libidn2-2.3.2: src/idn2.c, 1-16
=====
```

```
/* idn2.c - command line interface to libidn2
   Copyright (C) 2011-2021 Simon Josefsson, Tim Ruehsen
```

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```
*/
```

```
=====
libidn2-2.3.2: lib/idn2.h.in, 1-27
=====
```

```
/* idn2.h - header file for idn2
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```

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

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

```
=====
libjpeg-turbo-2.1.5.1: cdjpeg.h, 1-13
```

```
=====
/*
 * cdjpeg.h
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modified 2019 by Guido Vollbeding.
 * libjpeg-turbo Modifications:
 * Copyright (C) 2017, 2019, 2021, D. R. Commander.
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 * file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
=====

libjpeg-turbo-2.1.5.1: jpeglib.h, 1-16
=====

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

libjpeg-turbo-2.1.5.1: djpeg.c, 1-11
=====

/*
 * djpeg.c
 *
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=====
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libpcre-8.45: LICENCE
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```
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-----
```

```
Written by:      Philip Hazel
Email local part: Philip.Hazel
Email domain:   gmail.com
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above

specified materials from the same place.

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

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

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

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

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

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

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

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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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```

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```

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=====
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*/

```

```

=====
libtirpc-1.3.2: src/netname.c, 1-27
rpcbind-1.2.6: src/rpcinfo.c, 1-27
=====

```

```

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```

```

=====
libunistring-1.0: README, 45-65
=====

```

```

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```
=====
libunistring-1.0: doc/libunistring.texi
=====
```

```
\input texinfo          @c -*-texinfo-*-
@comment %**start of header
@setfilename libunistring.info
@documentencoding UTF-8
@settitle GNU libunistring
@finalout
@c Indices:
@c  am = autoconf macro  @amindex
@c  cp = concept         @cindex
@c  fn = function        @findex
@c  tp = type            @tindex
@c Unused predefined indices:
@c  ky = keystroke       @kindex
@c  pg = program         @pindex
@c  vr = variable        @vindex
@defcodeindex am
@syncodeindex am cp
@syncodeindex fn cp
@syncodeindex tp cp
@ifclear texi2html
@firstparagraphindent insert
@end ifclear
@c texi2html-1.76 does not support @arrow{}.
@ifset texi2html
@macro arrow{}
→
@end macro
```

```
@end ifset
@comment %**end of header

@include version.texi

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

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

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

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

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

```
@c This trick is from Karl Berry.
@iftex
@macro texnl
@hfil@penalty9000@hfilneg
@end macro
@end iftex
@ifnottex
@macro texnl
@end macro
@end ifnottex

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

@ifinfo
This manual is for GNU libunistring.

@ignore
@c This was: @copying but it triggers a makeinfo 4.13 bug
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version 3 of the License, or (at your option) any later version published
by the Free Software Foundation (FSF).
A copy of the license is included in @ref{GNU GPL}.
@end ignore
@end ifinfo

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



```

@ifnohtml
@page
@vskip 0pt plus 1filll
@c @insertcopying
Copyright (C) 2001-2022 Free Software Foundation, Inc.

```

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```

@end ifnohtml
@end titlepage

```

```

@c Table of Contents
@contents

```

```

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

```

```

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* Introduction::          Who may need Unicode strings?
* Conventions::          Conventions used in this manual
* unitypes.h::           Elementary types
* unistr.h::             Elementary Unicode string functions
* uniconv.h::            Conversions between Unicode and encodings
* unistdio.h::           Output with Unicode strings
* uniname.h::           Names of Unicode characters
* unictype.h::           Unicode character classification and properties
* uniwidth.h::           Display width
* unigrbrk.h::           Grapheme cluster breaking
* unibrk.h::             Word breaks in strings
* unilbrk.h::           Line breaking
* uninorm.h::            Normalization forms
* unicast.h::           Case mappings
* uniregex.h::          Regular expressions

```

```

* Using the library::          How to link with the library and use it?
* More functionality::        More advanced functionality
* The wchar_t mess::          Why @code{wchar_t *} strings are useless
* The char32_t problem::       Why @code{char32_t *} strings are problematic
* Licenses::                   Licenses

```

```

* Index::                      General Index

```

```
@detailmenu
```

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

```
Introduction
```

```

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

```

```
unistr.h
```

```

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

```

```
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```

```

* Iterating::
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* Copying Unicode strings::
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* Searching for a character::
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```

```
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```

```

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```

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```

- * General category::
- * Canonical combining class::
- * Bidi class::
- * Decimal digit value::
- * Digit value::
- * Numeric value::
- * Mirrored character::
- * Arabic shaping::
- * Properties::
- * Scripts::
- * Blocks::
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- * Grapheme cluster breaks in a string::
- * Grapheme cluster break property::

uniwbrk.h

- * Word breaks in a string::
- * Word break property::

uninorm.h

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- * Composition of characters::
- * Normalization of strings::
- * Normalizing comparisons::
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- * Installation::
- * Compiler options::
- * Include files::
- * Autoconf macro::
- * Reporting problems::

Licenses

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

@end detailmenu

@end menu

@node Introduction

@chapter Introduction

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

It consists of the following parts:

- @table @code
- @item <unistr.h>
elementary string functions
- @item <unicov.h>
conversion from/to legacy encodings
- @item <unistdio.h>
formatted output to strings
- @item <uniname.h>
character names
- @item <unictype.h>
character classification and properties
- @item <uniwidth.h>
string width when using nonproportional fonts
- @item <unigbrk.h>
grapheme cluster breaks
- @item <uniwbrk.h>
word breaks
- @item <unilbrk.h>
line breaking algorithm
- @item <uninorm.h>
normalization (composition and decomposition)
- @item <unicase.h>
case folding
- @item <uniregex.h>
regular expressions (not yet implemented)

```

@end table

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

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

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

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

@node Unicode
@section Unicode

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

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

```

@end table

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

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

References:

@itemize @bullet

@item

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

@item

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

@item

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

@item

Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{} @url{https://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 `{char *}` and `{uint8_t *}` is a sign of a bug in your code that you should not try to silence through a cast.

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

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

```
@item
```

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

```
@item
```

Truncating a string, for example, with `{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
```

`{strchr}` and `{strrchr}` do not work with multibyte strings

if the locale encoding is GB18030 and the character to be searched is a digit.

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

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

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

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

@end itemize

The workarounds can be found in GNU glibc
[@url{https://www.gnu.org/software/glibc/}](https://www.gnu.org/software/glibc/).

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

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

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

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

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

@item
glibc has functions @func{mbssep} and @func{mbstok_r} that are like @posixfunc{strsep} and @posixfunc{strtok_r} but work in multibyte locales.

@item
glibc has functions @func{mbscasemp}, @func{mbsncasemp}, @func{mbspcasemp}, and @func{mbscasestr} that are like @posixfunc{strcasemp}, @posixfunc{strncasemp}, and @posixfunc{strcasestr}, but work in multibyte locales. Still, the function @code{ulc_casemp} is preferable to these functions; see below.

@end itemize

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

@itemize @bullet

@item

It assumes that there are only two forms of every character: uppercase and lowercase. This is not true for Croatian, where the character

@sc{LETTER DZ WITH CARON} comes in three forms:

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

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

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

@item

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

@item

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

This is not true for the Greek sigma: @sc{GREEK CAPITAL LETTER SIGMA} is

the uppercase of both @sc{GREEK SMALL LETTER SIGMA} and

@sc{GREEK SMALL LETTER FINAL SIGMA}.

@item

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

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

@end itemize

The correct way to deal with this problem is

@enumerate

@item

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

@item

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

@end enumerate

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

@node Unicode strings

@section Unicode strings

libunistring supports Unicode strings in three representations:

@cindex UTF-8, strings

@cindex UTF-16, strings

@cindex UTF-32, strings

@itemize @bullet

@item

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

@item

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

@item

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

@end itemize

As with C strings, there are two variants:

@itemize @bullet

@item

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

@item

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

@end itemize

@node Conventions

@chapter Conventions

This chapter explains conventions valid throughout the libunistring library.

@cindex argument conventions

Variables of type `@code{char *}` denote C strings in locale encoding.

See [@ref{Locale encodings}](#).

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

Variables of type `@code{uint16_t *}` denote UTF-16 strings, without byte order mark. Their units are 2-byte words.

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

Argument pairs `@code{(@var{s}, @var{n})}` denote a string

`@code{@var{s}[0..@var{n}-1]}` with exactly `@var{n}` units.

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

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

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

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

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

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

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

@cindex return value conventions

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

Functions returning a string result take a

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

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

@include unitypes.texi

@include unistr.texi

@include uniconv.texi

@include unistdio.texi

@include uniname.texi

@include unictype.texi

@include uniwidth.texi

@include unigbrk.texi

@include uniwbrk.texi

@include unilbrk.texi

@include uninorm.texi

@include unicastexi

@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 `-L${LIBUNISTRING_LIBDIR} -lunistring`. On some systems, in some configurations, you also have to pass options needed for linking with `libiconv`. The autoconf macro `gl_LIBUNISTRING` (see [Autoconf macro](#)) deals with this particularity.

```
@node Include files
@section Include files
```

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

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

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

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

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

```
@node Autoconf macro
@section Autoconf macro
```

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

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

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

`@itemize @bullet`

`@item`

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

`@item`

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

`@item`

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

`@end itemize`

`@node Reporting problems`

`@section Reporting problems`

`@cindex bug reports`

`@cindex bug tracker`

`@cindex mailing list`

If you encounter any problem, please don't hesitate to submit a detailed bug report either in the bug tracker at the project page

`@url{https://savannah.gnu.org/projects/libunistring}`, or by email

to the `bug-libunistring@gnu.org` mailing list.

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

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

`@node More functionality`

`@chapter More advanced functionality`

`@cindex bidirectional reordering`

For bidirectional reordering of strings, we recommend the GNU FriBidi library:

`@url{http://www.fribidi.org/}`.

`@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{https://www.pango.org/}](https://www.pango.org/).

@include wchar_t.texi

@include char32_t.texi

@node Licenses

@appendix Licenses

@cindex Licenses

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@itemize @bullet

@item

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@itemize @bullet

@item @minus{}

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@end itemize

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

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

@node Index
@unnumbered Index

@printindex cp

@bye

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

=====
libunwind-1.6.2: COPYING
=====

```

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```
=====
libva-initial-2.14.0: COPYING
=====
```

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```
=====
libvncserver-0.9.13: COPYING
=====
```

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Version 2, June 1991

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

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```
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```

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```
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```

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

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```
=====
libvorbis-1.3.7: COPYING
=====
```

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```
=====
libvorbis-1.3.7: include/vorbis/vorbisenc.h, 1-11
=====
```

```

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```

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libx11-1.7.3.1: COPYING
=====
```

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```
=====
linux-firmware-20231211: LICENCE.agere
=====
```

```
agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin  -- 9.48 Hermes I
```

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

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

```
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```
=====
linux-firmware-20231211: LICENSE.dib0700
=====
```

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

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```

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

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

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```
=====  
linux-firmware-20231211: LICENCE.go7007  
=====
```

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

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

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

0. OVERVIEW AND LICENSING/DISCLAIMER

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

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1. SYSTEM REQUIREMENTS

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

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

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

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

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

<code>CONFIG_SND_MIXER_OSS</code>	- OSS Mixer API
<code>CONFIG_SND_PCM_OSS</code>	- OSS PCM (digital audio) API

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

2. COMPILING AND INSTALLING THE DRIVER

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

```
$ make
```

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

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

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

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

```
$ make install
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. TESTING THE DRIVER

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

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

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

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

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

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

5. USING THE DRIVER

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

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

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

```
GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS
```

These ioctls are used to negotiate general compression parameters.

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

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

Fields in struct `go7007_comp_params`:

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

Flags in struct `go7007_comp_params`:

<code>GO7007_COMP_CLOSED_GOP</code>	Only produce self-contained GOPs, used to produce streams appropriate for random seeking.
<code>GO7007_COMP_OMIT_SEQ_HEADER</code>	Omit the stream sequence header.

`GO7007IOC_S_MPEG_PARAMS`, `GO7007IOC_G_MPEG_PARAMS`

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

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

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

Fields in struct go7007_mpeg_params:

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

                                Choices are:
                                GO7007_MPEG_VIDEO_MPEG1
                                GO7007_MPEG_VIDEO_MPEG2
                                GO7007_MPEG_VIDEO_MPEG4

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

__u32                            The profile and level indication to be
pali                             stored in the sequence header. This
                                is only used as an indicator to the
                                decoder, and does not affect the MPEG
                                features used in the video stream.
                                Not valid for MPEG1.

                                Choices for MPEG2 are:
                                GO7007_MPEG2_PROFILE_MAIN_MAIN

                                Choices for MPEG4 are:
                                GO7007_MPEG4_PROFILE_S_L0
                                GO7007_MPEG4_PROFILE_S_L1
                                GO7007_MPEG4_PROFILE_S_L2
                                GO7007_MPEG4_PROFILE_S_L3
                                GO7007_MPEG4_PROFILE_ARTS_L1
                                GO7007_MPEG4_PROFILE_ARTS_L2
                                GO7007_MPEG4_PROFILE_ARTS_L3
                                GO7007_MPEG4_PROFILE_ARTS_L4
```

```

GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

```

Flags in struct `go7007_mpeg_params`:

```

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

```

```

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

```

```

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

```

`GO7007IOC_S_BITRATE`, `GO7007IOC_G_BITRATE`

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

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

Installing the WIS PCI Voyager Driver

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

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

```

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

```

<http://dl.bytesex.org/patches/2.6.11-2/saa7134-update>

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

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

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

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

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

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

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

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

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

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".
- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.
- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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=====
linux-firmware-20231211: LICENCE.ti-keystone

=====
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```
=====
linux-firmware-20231211: LICENCE.ueagle-atm4-firmware
=====
```

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

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```
=====
linux-firmware-20231211: LICENCE.via_vt6656
=====
```

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

```
=====
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```
=====
linux-firmware-20231211: LICENCE.wl1251
=====
```

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```
=====
linux-firmware-20231211: LICENCE.xc4000
=====
```

The following XC4000 firmware file "dvb-fe-xc4000-1.4.1.fw" was created based on version 1.4 of "xc4000_firmwares.h".

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

The code was released by Xceive under the following license:

```
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```

```
=====
linux-firmware-20231211: LICENCE.xc5000
=====
```

The following XC5000 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000_firmwares_32000Khz.h".

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

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```

```
=====
linux-firmware-20231211: LICENCE.xc5000c
=====
```

The following XC500C firmware file "dvh-fe-xc5000C-4.1.30.7.fw" was created based on "Xc5200_firmwares_32000Khz.h".

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

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```

```
=====
linux-firmware-20231211: WHENCE
=====
```

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

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

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

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

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

Licence: Redistributable. See LICENCE.cypress for details.

Driver: 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-ymfpcci -- 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: qllogic/1040.bin

File: qllogic/1280.bin

File: qllogic/12160.bin

Licence: Redistributable. See LICENCE.qla1280 for details

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/Hauppage Nova-USB devices

File: ttusb-budget/dspbootcode.bin

Licence: Unknown

Found in hex form in the kernel source.

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

File: keyspan/mpr.fw

File: keyspan/usa18x.fw

File: keyspan/usa19.fw

File: keyspan/usa19qi.fw

File: keyspan/usa19qw.fw

File: keyspan/usa19w.fw

File: keyspan/usa28.fw

File: keyspan/usa28xa.fw
File: keyspan/usa28xb.fw
File: keyspan/usa28x.fw
File: keyspan/usa49w.fw
File: keyspan/usa49wlc.fw

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

Original licence information:

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Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Source: keyspan_pda/Makefile

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

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131

Info: DATE=2001dec06

File: emi26/firmware.fw

Version: 1.0.2.916

Info: DATE=12.02.2002

File: emi26/loader.fw

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

Original licence information:

```
/*
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 *
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 * 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: 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

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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/gbrvcuode.sys

File: slicoss/oasisdbgdownload.sys

File: slicoss/oasisdownload.sys

File: slicoss/oasisrcvcode.sys

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Driver: sxg - Alacritech IS-NIC products

File: sxg/saharadownloadB.sys

File: sxg/saharadbdownloadB.sys

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

File: cxgb3/t3b_psram-1.1.0.bin

File: cxgb3/t3c_psram-1.1.0.bin

File: cxgb3/t3fw-7.0.0.bin

File: cxgb3/t3fw-7.1.0.bin

File: cxgb3/t3fw-7.4.0.bin

File: cxgb3/t3fw-7.10.0.bin

File: cxgb3/t3fw-7.12.0.bin

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

File: cxgb3/ael2005_opt_edc.bin

File: cxgb3/ael2005_twx_edc.bin

File: cxgb3/ael2020_twx_edc.bin

Licence:

```
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```

Found in hex form in kernel source.

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

File: cxgb4/t4fw-1.14.4.0.bin

File: cxgb4/t4fw-1.15.37.0.bin

File: cxgb4/t4fw-1.27.5.0.bin

Link: cxgb4/t4fw.bin -> t4fw-1.27.5.0.bin

File: cxgb4/t5fw-1.14.4.0.bin

File: cxgb4/t5fw-1.15.37.0.bin

File: cxgb4/t5fw-1.27.5.0.bin

Link: cxgb4/t5fw.bin -> t5fw-1.27.5.0.bin

File: cxgb4/t6fw-1.27.5.0.bin

Link: cxgb4/t6fw.bin -> t6fw-1.27.5.0.bin

File: cxgb4/aq1202_fw.cld

File: cxgb4/bcm8483.bin

File: cxgb4/configs/t4-config-default.txt

File: cxgb4/configs/t5-config-default.txt

File: cxgb4/configs/t6-config-default.txt

File: cxgb4/configs/t5-config-hashfilter.txt

File: cxgb4/configs/t6-config-hashfilter.txt

Link: cxgb4/t4-config.txt -> configs/t4-config-default.txt

Link: cxgb4/t5-config.txt -> configs/t5-config-default.txt

Link: cxgb4/t6-config.txt -> configs/t6-config-default.txt

Licence: Redistributable. See LICENCE.chelsio_firmware for details

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucose.bin

File: e100/d101s_ucose.bin

File: e100/d102e_ucose.bin

Licence: Redistributable. See LICENCE.e100 for details

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin

File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at
<http://alteon.shareable.org/>

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin

File: tigon/tg3_tso.bin

File: tigon/tg3_tso5.bin

File: tigon/tg357766.bin

Licence:

* Firmware is:

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* Copyright (C) 2000-2013 Broadcom Corporation.

*

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* data in hexadecimal or equivalent format, provided this copyright

* notice is accompanying it.

Found in hex form in kernel source.

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin

File: adaptec/starfire_tx.bin

Licence: Allegedly GPLv2, but no source visible.

Found in hex form in kernel source, with the following notice:

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

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

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

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

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

File: lbtf_usb.bin

Version: 5.132.3.p1

File: libertas/usb8388_olpc.bin

Version: 5.110.22.p23

Licence: Redistributable. See LICENCE.OLPC for details.

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

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

File: mw18k/fmimage_8687.fw

File: mw18k/helper_8687.fw

File: mw18k/fmimage_8366.fw

File: mw18k/fmimage_8366_ap-1.fw

File: mw18k/fmimage_8366_ap-2.fw

File: mw18k/fmimage_8366_ap-3.fw

Version: 5.2.8.16

File: mw18k/helper_8366.fw

File: mw18k/fmimage_8764_ap-1.fw

Version: 7.4.0.9

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

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

File: mrvl/sd8787_uapsta.bin

Version: W14.68.35.p66

File: mrvl/usb8766_uapsta.bin

Version: 14.68.22.p16

File: mrvl/sd8797_uapsta.bin

Version: W14.68.29.p59

File: mrvl/usb8797_uapsta.bin

Version: W14.68.29.p60

File: mrvl/sd8897_uapsta.bin

Version: W15.68.19.17

File: mrvl/usb8897_uapsta.bin

Version: 15.68.4.p103

File: mrvl/pcie8897_uapsta.bin

Version: W15.68.19.p21

File: mrvl/sd8887_uapsta.bin

Version: W15.68.7.p189

File: mrvl/sd8801_uapsta.bin

Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin

Version: W14.68.36.p138

File: mrvl/pcieuart8997_combo_v4.bin

Version: W16.68.1.p179

File: mrvl/pcieusb8997_combo_v4.bin

Version: W16.68.10.p159.1

File: mrvl/pcie8997_wlan_v4.bin

Version: W16.68.10.p159.1

File: mrvl/usbusb8997_combo_v4.bin

Version: W16.68.1.p183

File: mrvl/sdsd8997_combo_v4.bin

Version: W16.68.1.p179

File: mrvl/sdsd8977_combo_v2.bin

Version: W16.68.1.p195

Licence: Redistributable. See LICENCE.NXP for details.

Originates from <https://github.com/NXP/mwiflex-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-5000-5.ucode

Version: 8.83.5.1

File: iwlwifi-5150-2.ucode

Version: 8.24.2.2

File: iwlwifi-1000-5.ucode
Version: 39.31.5.1

File: iwlwifi-6000-4.ucode
Version: 9.221.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1

File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode
Version: 18.168.6.1

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

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

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

File: iwlwifi-7265D-29.ucode
Version: 29.f2390aa8.0

File: iwlwifi-3168-29.ucode
Version: 29.0bd893f3.0

File: iwlwifi-8000C-34.ucode
Version: 34.610288.0

File: iwlwifi-8000C-36.ucode

Version: 36.ca7b901d.0

File: iwlwifi-8265-34.ucode
Version: 34.610288.0

File: iwlwifi-8265-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-9000-pu-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9000-pu-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9000-pu-b0-jf-b0-46.ucode
Version: 46.ff18e32a.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-b0-46.ucode
Version: 46.ff18e32a.0

File: iwlwifi-cc-a0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-cc-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-so-a0-gf-a0.pnvm

File: iwlwifi-so-a0-gf4-a0.pnvm

File: iwlwifi-ty-a0-gf-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-cc-a0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-b0-hr-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-b0-jf-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-c0-hr-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-c0-jf-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-QuZ-a0-hr-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-QuZ-a0-jf-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-ty-a0-gf-a0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-cc-a0-72.ucode

Version: 72.daa05125.0

File: iwlwifi-Qu-b0-hr-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-Qu-b0-jf-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-Qu-c0-hr-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-Qu-c0-jf-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-QuZ-a0-hr-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-QuZ-a0-jf-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-ty-a0-gf-a0-72.ucode
Version: 72.a764baac.0

File: iwlwifi-so-a0-gf4-a0-72.ucode
Version: 72.a764baac.0

File: iwlwifi-so-a0-gf-a0-72.ucode
Version: 72.a764baac.0

File: iwlwifi-so-a0-hr-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-so-a0-jf-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-cc-a0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-b0-hr-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-b0-jf-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-c0-hr-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-c0-jf-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-QuZ-a0-hr-b0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-QuZ-a0-jf-b0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-ty-a0-gf-a0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-gf4-a0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-gf-a0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-hr-b0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-jf-b0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-cc-a0-74.ucose
Version: 74.a5e9588b.0

File: iwlwifi-Qu-b0-hr-b0-74.ucose
Version: 74.a5e9588b.0

File: iwlwifi-Qu-b0-jf-b0-74.ucose
Version: 74.a5e9588b.0

File: iwlwifi-Qu-c0-hr-b0-74.ucose
Version: 74.a5e9588b.0

File: iwlwifi-Qu-c0-jf-b0-74.ucose
Version: 74.a5e9588b.0

File: iwlwifi-QuZ-a0-hr-b0-74.ucose
Version: 74.a5e9588b.0

File: iwlwifi-QuZ-a0-jf-b0-74.ucose
Version: 74.a5e9588b.0

File: iwlwifi-ty-a0-gf-a0-74.ucose
Version: 74.fe17486e.0

File: iwlwifi-so-a0-gf4-a0-74.ucose
Version: 74.fe17486e.0

File: iwlwifi-so-a0-gf-a0-74.ucose
Version: 74.fe17486e.0

File: iwlwifi-so-a0-hr-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-so-a0-jf-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-cc-a0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-Qu-b0-hr-b0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-Qu-b0-jf-b0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-Qu-c0-hr-b0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-Qu-c0-jf-b0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-QuZ-a0-hr-b0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-QuZ-a0-jf-b0-77.ucode
Version: 74.206b0184.0

File: iwlwifi-ty-a0-gf-a0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-ty-a0-gf-a0-78.ucode
Version: 75.3bfdc55f.0

File: iwlwifi-ty-a0-gf-a0-79.ucode
Version: 76.27f1c37b.0

File: iwlwifi-ty-a0-gf-a0-81.ucode
Version: 78.31fc9ae6.0

File: iwlwifi-ty-a0-gf-a0-83.ucode
Version: 80.e8f84e98.0

File: iwlwifi-ty-a0-gf-a0-84.ucode
Version: 81.8e5c544c.0

File: iwlwifi-ty-a0-gf-a0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-so-a0-gf4-a0-77.ucode

Version: 74.f92b5fed.0

File: iwlwifi-so-a0-gf4-a0-78.ucode
Version: 75.3bfdc55f.0

File: iwlwifi-so-a0-gf4-a0-79.ucode
Version: 76.27f1c37b.0

File: iwlwifi-so-a0-gf4-a0-81.ucode
Version: 78.31fc9ae6.0

File: iwlwifi-so-a0-gf4-a0-83.ucode
Version: 80.e8f84e98.0

File: iwlwifi-so-a0-gf4-a0-84.ucode
Version: 81.8e5c544c.0

File: iwlwifi-so-a0-gf4-a0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-so-a0-gf-a0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-so-a0-gf-a0-78.ucode
Version: 74.3bfdc55f.0

File: iwlwifi-so-a0-gf-a0-79.ucode
Version: 75.27f1c37b.0

File: iwlwifi-so-a0-gf-a0-81.ucode
Version: 78.31fc9ae6.0

File: iwlwifi-so-a0-gf-a0-83.ucode
Version: 80.e8f84e98.0

File: iwlwifi-so-a0-gf-a0-84.ucode
Version: 81.8e5c544c.0

File: iwlwifi-so-a0-gf-a0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-so-a0-hr-b0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-so-a0-hr-b0-79.ucode
Version: 75.27f1c37b.0

File: iwlwifi-so-a0-hr-b0-81.ucode
Version: 78.31fc9ae6.0

File: iwlwifi-so-a0-hr-b0-83.ucode
Version: 80.e8f84e98.0

File: iwlwifi-so-a0-hr-b0-84.ucode
Version: 81.8e5c544c.0

File: iwlwifi-so-a0-hr-b0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-so-a0-jf-b0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-ty-a0-gf-a0.pnvm

File: iwlwifi-gl-c0-fm-c0-83.ucode
Version: 80.d24e06ed.0

File: iwlwifi-gl-c0-fm-c0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-gl-c0-fm-c0.pnvm

File: iwlwifi-ma-b0-gf-a0-83.ucode
Version: 80.d24e06ed.0

File: iwlwifi-ma-b0-gf-a0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-ma-b0-gf-a0.pnvm

File: iwlwifi-ma-b0-gf4-a0-83.ucode
Version: 80.d24e06ed.0

File: iwlwifi-ma-b0-gf4-a0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-ma-b0-gf4-a0.pnvm

File: iwlwifi-ma-b0-hr-b0-83.ucode
Version: 80.d24e06ed.0

File: iwlwifi-ma-b0-hr-b0-86.ucode
Version: 83.fb5c9aeb.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

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Driver: ixp4xx-npe - Intel IXP4xx XScale Network Processing Engine (NPE) Firmware

File: ixp4xx/NPE-A

File: ixp4xx/NPE-A-HSS

File: ixp4xx/NPE-B

File: ixp4xx/NPE-C

Version: date = February 26, 2007

License: Redistributable. See LICENSE.ixp4xx for details

Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

Copyright (C) 2007 Tehuti Networks Ltd.

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Found in hex form in kernel source.

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:

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Found in hex form in kernel source.

Driver: yam - YAM driver for AX.25

File: yam/1200.bin
File: yam/9600.bin

Licence:
* (C) F6FBB 1998

Found in hex form in kernel source.

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis
File: cis/PCMLM28.cis
File: cis/DP83903.cis
File: cis/NE2K.cis
File: cis/tamarack.cis
File: cis/PE-200.cis
File: cis/PE520.cis

Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: serial_cs - Serial PCMCIA adapter

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

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
Copyright (C) 1998, 1999, 2000 David A. Hinds

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: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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

Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

Licence: Redistributable.

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

Driver: qllogicpti - PTI Qlogic, ISP Driver

File: qllogic/isp1000.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: myri_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x/bnx2x-e1-7.13.1.0.fw

File: bnx2x/bnx2x-e1-7.13.11.0.fw

File: bnx2x/bnx2x-e1-7.13.15.0.fw

File: bnx2x/bnx2x-e1-7.13.21.0.fw

File: bnx2x/bnx2x-e1h-7.13.1.0.fw

File: bnx2x/bnx2x-e1h-7.13.11.0.fw

File: bnx2x/bnx2x-e1h-7.13.15.0.fw

File: bnx2x/bnx2x-e1h-7.13.21.0.fw

File: bnx2x/bnx2x-e2-7.13.1.0.fw

File: bnx2x/bnx2x-e2-7.13.11.0.fw

File: bnx2x/bnx2x-e2-7.13.15.0.fw

File: bnx2x/bnx2x-e2-7.13.21.0.fw

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Found in hex form in kernel source.

Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-6.2.3.fw
File: bnx2/bnx2-mips-09-6.2.1b.fw
File: bnx2/bnx2-rv2p-06-6.0.15.fw
File: bnx2/bnx2-rv2p-09-6.0.17.fw
File: bnx2/bnx2-rv2p-09ax-6.0.17.fw

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Found in hex form in kernel source.

Driver: netxen_nic - NetXen Multi port (1/10) Gigabit Ethernet NIC

File: phanfw.bin
Version: 4.0.590

Licence: Redistributable. See LICENCE.phanfw for details.

Available from http://ldriver.qlogic.com/firmware/netxen_nic/new/

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: mediatek/mt7601u.bin

Version: 34

Link: mt7601u.bin -> mediatek/mt7601u.bin

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: usbdx/usbduxfast/usbduxsigma - usbdx data acquisition cards

File: usbdx_firmware.bin

File: usbdxfast_firmware.bin

File: usbdxsigma_firmware.bin

Source: usbdx/

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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Found in decimal form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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Found in hex form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEDAR_me.bin
File: radeon/CEDAR_pfp.bin
File: radeon/CEDAR_rlc.bin
File: radeon/CEDAR_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_uvd.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin
File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_mc.bin
File: radeon/BARTS_me.bin

File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_mc.bin
File: radeon/CAICOS_me.bin
File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_mc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_mc.bin
File: radeon/CAYMAN_me.bin
File: radeon/CAYMAN_pfp.bin
File: radeon/CAYMAN_rlc.bin
File: radeon/CAYMAN_smc.bin
File: radeon/SUMO_pfp.bin
File: radeon/SUMO_me.bin
File: radeon/SUMO2_pfp.bin
File: radeon/SUMO2_me.bin
File: radeon/ARUBA_me.bin
File: radeon/ARUBA_pfp.bin
File: radeon/ARUBA_rlc.bin
File: radeon/PITCAIRN_ce.bin
File: radeon/PITCAIRN_mc.bin
File: radeon/PITCAIRN_mc2.bin
File: radeon/PITCAIRN_me.bin
File: radeon/PITCAIRN_pfp.bin
File: radeon/PITCAIRN_rlc.bin
File: radeon/PITCAIRN_smc.bin
File: radeon/TAHITI_ce.bin
File: radeon/TAHITI_mc.bin
File: radeon/TAHITI_mc2.bin
File: radeon/TAHITI_me.bin
File: radeon/TAHITI_pfp.bin
File: radeon/TAHITI_rlc.bin
File: radeon/TAHITI_uvd.bin
File: radeon/TAHITI_smc.bin
File: radeon/TAHITI_vce.bin
File: radeon/VERDE_ce.bin
File: radeon/VERDE_mc.bin
File: radeon/VERDE_mc2.bin
File: radeon/VERDE_me.bin
File: radeon/VERDE_pfp.bin
File: radeon/VERDE_rlc.bin
File: radeon/VERDE_smc.bin
File: radeon/OLAND_ce.bin
File: radeon/OLAND_mc.bin
File: radeon/OLAND_mc2.bin
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: en8811h - Airoha 2.5G Ethernet Phy

File: airoha/EthMD32.dm.bin
File: airoha/EthMD32.DSP.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/tahiti_uvd.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/pitcairn_uvd.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/verde_uvd.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/oland_uvd.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
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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
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File: amdgpu/mullins_sdma1.bin
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File: amdgpu/mullins_vce.bin
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File: amdgpu/psp_13_0_8_toc.bin
File: amdgpu/psp_13_0_10_sos.bin
File: amdgpu/psp_13_0_10_ta.bin
File: amdgpu/psp_13_0_11_ta.bin
File: amdgpu/psp_13_0_11_toc.bin
File: amdgpu/sdma_5_2_6.bin
File: amdgpu/sdma_5_2_7.bin
File: amdgpu/sdma_6_0_0.bin
File: amdgpu/sdma_6_0_1.bin
File: amdgpu/sdma_6_0_2.bin
File: amdgpu/sdma_6_0_3.bin

File: amdgpu/smu_13_0_0.bin
File: amdgpu/smu_13_0_7.bin
File: amdgpu/smu_13_0_10.bin
File: amdgpu/vcn_3_1_2.bin
File: amdgpu/vcn_4_0_0.bin
File: amdgpu/vcn_4_0_2.bin
File: amdgpu/vcn_4_0_4.bin

Licence: Redistributable. See LICENSE.amdgpu for details.

Driver: amd_pmf - AMD Platform Management Framework TA

File: amdtee/773bd96f-b83f-4d52-b12dc529b13d8543.bin
Link: amdtee/amd_pmf_v3.bin -> 773bd96f-b83f-4d52-b12dc529b13d8543.bin

Licence: Redistributable. See LICENSE.amd_pmf 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: qllogic/sd7220.fw

Licence:

```
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```

Found in hex form in kernel source.

Driver: qed - QLogic 4xxxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin
File: qed/qed_init_values_zipped-8.7.3.0.bin
File: qed/qed_init_values_zipped-8.10.5.0.bin
File: qed/qed_init_values-8.10.9.0.bin
File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin
File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
File: qed/qed_init_values_zipped-8.37.7.0.bin
File: qed/qed_init_values-8.37.7.0.bin
File: qed/qed_init_values-8.40.33.0.bin
File: qed/qed_init_values_zipped-8.42.2.0.bin
File: qed/qed_init_values_zipped-8.59.1.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2

File: ueagle-atm/DSP4p.bin

File: ueagle-atm/eagleIV.fw

Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin

File: ueagle-atm/CMVeiWO.bin

File: ueagle-atm/CMVepFR10.bin

File: ueagle-atm/DSP9p.bin

File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/DSPei.bin
File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPep.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVeI.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on
<https://mail.gna.org/public/eagleusb-dev/2004-11/msg00172.html>

Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

Licence:

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

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

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

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

File: brcm/bcm4329-fullmac-4.bin
File: brcm/brcmfmac43236b.bin
File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin
File: brcm/brcmfmac43430a0-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac4358-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4366c-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

File: brcm/brcmfmac4373.bin
File: cypress/cyfmac43012-sdio.bin
Link: brcm/brcmfmac43012-sdio.bin -> ../cypress/cyfmac43012-sdio.bin
File: cypress/cyfmac43012-sdio.clm_blob
Link: brcm/brcmfmac43012-sdio.clm_blob -> ../cypress/cyfmac43012-sdio.clm_blob
File: cypress/cyfmac43340-sdio.bin
Link: brcm/brcmfmac43340-sdio.bin -> ../cypress/cyfmac43340-sdio.bin
File: cypress/cyfmac43362-sdio.bin
Link: brcm/brcmfmac43362-sdio.bin -> ../cypress/cyfmac43362-sdio.bin
File: cypress/cyfmac4339-sdio.bin
Link: brcm/brcmfmac4339-sdio.bin -> ../cypress/cyfmac4339-sdio.bin
File: cypress/cyfmac43430-sdio.bin
Link: brcm/brcmfmac43430-sdio.bin -> ../cypress/cyfmac43430-sdio.bin
File: cypress/cyfmac43430-sdio.clm_blob
Link: brcm/brcmfmac43430-sdio.clm_blob -> ../cypress/cyfmac43430-sdio.clm_blob
File: cypress/cyfmac43455-sdio.bin
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfmac43455-sdio.bin
File: cypress/cyfmac43455-sdio.clm_blob
Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfmac43455-sdio.clm_blob
File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob

```

Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfm4354-sdio.clm_blob
File: cypress/cyfm4356-pcie.bin
Link: brcm/brcmfmac4356-pcie.bin -> ../cypress/cyfm4356-pcie.bin
File: cypress/cyfm4356-pcie.clm_blob
Link: brcm/brcmfmac4356-pcie.clm_blob -> ../cypress/cyfm4356-pcie.clm_blob
File: cypress/cyfm4356-sdio.bin
Link: brcm/brcmfmac4356-sdio.bin -> ../cypress/cyfm4356-sdio.bin
File: cypress/cyfm4356-sdio.clm_blob
Link: brcm/brcmfmac4356-sdio.clm_blob -> ../cypress/cyfm4356-sdio.clm_blob
File: cypress/cyfm43570-pcie.bin
Link: brcm/brcmfmac43570-pcie.bin -> ../cypress/cyfm43570-pcie.bin
File: cypress/cyfm43570-pcie.clm_blob
Link: brcm/brcmfmac43570-pcie.clm_blob -> ../cypress/cyfm43570-pcie.clm_blob
File: cypress/cyfm4373-sdio.bin
Link: brcm/brcmfmac4373-sdio.bin -> ../cypress/cyfm4373-sdio.bin
File: cypress/cyfm4373-sdio.clm_blob
Link: brcm/brcmfmac4373-sdio.clm_blob -> ../cypress/cyfm4373-sdio.clm_blob
File: cypress/cyfm54591-pcie.bin
Link: brcm/brcmfmac54591-pcie.bin -> ../cypress/cyfm54591-pcie.bin
File: cypress/cyfm54591-pcie.clm_blob
Link: brcm/brcmfmac54591-pcie.clm_blob -> ../cypress/cyfm54591-pcie.clm_blob

```

Licence: Redistributable. See LICENCE.cypress for details.

```

File: "brcm/brcmfmac43241b4-sdio.Advantech-MICA-071.txt"
File: "brcm/brcmfmac43241b4-sdio.Intel Corp.-VALLEYVIEW C0 PLATFORM.txt"
File: "brcm/brcmfmac4330-sdio.Prowise-PT301.txt"
File: "brcm/brcmfmac43340-sdio.ASUSTeK COMPUTER INC.-TF103CE.txt"
File: "brcm/brcmfmac43340-sdio.meegopad-t08.txt"
File: "brcm/brcmfmac43340-sdio.pov-tab-p1006w-data.txt"
File: "brcm/brcmfmac43340-sdio.predia-basic.txt"
File: "brcm/brcmfmac43362-sdio.WC121.txt"
File: "brcm/brcmfmac43362-sdio.cubietech,cubietruck.txt"
Link: brcm/brcmfmac43362-sdio.kobo,aura.txt -> brcmfmac43362-sdio.WC121.txt
Link: brcm/brcmfmac43362-sdio.kobo,tolino-shine2hd.txt ->
brcmfmac43362-sdio.WC121.txt
Link: brcm/brcmfmac43362-sdio.lemaker,bananapro.txt ->
brcmfmac43362-sdio.cubietech,cubietruck.txt
File: "brcm/brcmfmac43430a0-sdio.ilife-S806.txt"
File: "brcm/brcmfmac43430a0-sdio.jumper-ezpad-mini3.txt"
File: "brcm/brcmfmac43430a0-sdio.ONDA-V80 PLUS.txt"
File: "brcm/brcmfmac43430-sdio.AP6212.txt"
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-plus.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-zero.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m2-ultra.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip,bpi-m3.txt -> brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.sinovoip,bananapi-m64.txt ->

```

brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.friendlyarm,nanopi-r1.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.starfive,visionfive-v1.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.beagle,beaglev-starlight-jh7100-a1.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.beagle,beaglev-starlight-jh7100-r0.txt ->
brcmfmac43430-sdio.AP6212.txt
File: "brcm/brcmfmac43430-sdio.Hampoo-D2D3_Vi8A1.txt"
File: "brcm/brcmfmac43430-sdio.MUR1DX.txt"
File: "brcm/brcmfmac43430-sdio.raspberrypi,3-model-b.txt"
Link: brcm/brcmfmac43430-sdio.raspberrypi,model-zero-w.txt ->
brcmfmac43430-sdio.raspberrypi,3-model-b.txt
Link: brcm/brcmfmac43430-sdio.raspberrypi,model-zero-2-w.txt ->
brcmfmac43430-sdio.raspberrypi,3-model-b.txt
File: "brcm/brcmfmac43455-sdio.acepc-t8.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
Link: brcm/brcmfmac43455-sdio.raspberrypi,3-model-a-plus.txt ->
brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt
File: "brcm/brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
Link: brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ 4\
Model\ B.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
Link: brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ Compute\
Module\ 4.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
File: "brcm/brcmfmac43455-sdio.MINIX-NEO Z83-4.txt"
File: "brcm/brcmfmac4356-pcie.gpd-win-pocket.txt"
File: "brcm/brcmfmac4356-pcie.Intel Corporation-CHERRYVIEW D1 PLATFORM.txt"
File: "brcm/brcmfmac4356-pcie.Xiaomi Inc-Mipad2.txt"
File: brcm/brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.firefly,firefly-rk3399.txt ->
brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.khadas,vim2.txt -> brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.vamrs,rock960.txt -> brcmfmac4356-sdio.AP6356S.txt
File: brcm/brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.beagle,am5729-beagleboneai.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinebook-pro.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinenote-v1.1.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinenote-v1.2.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinephone-pro.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,quartz64-a.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,quartz64-b.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,rockpro64-v2.0.txt ->

```
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,rockpro64-v2.1.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,soquartz-model-a.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,soquartz-cm4io.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,soquartz-blade.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
```

Licence: GPLv2. See GPL-2 for details.

Driver: ti-vpe - Texas Instruments V4L2 driver for Video Processing Engine

File: ti/vpdma-lb8.bin

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

Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin

Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin

Version: 6.1.0.50.350 (STA-only)

File: ti-connectivity/wl1271-fw-2.bin

Version: 6.1.5.50.74 (STA-only)

File: ti-connectivity/wl1271-fw-ap.bin

Version: 6.2.1.0.54 (AP-only)

File: ti-connectivity/wl127x-fw-3.bin

Version: 6.3.0.0.77

File: ti-connectivity/wl127x-fw-plt-3.bin
Version: 6.3.0.0.77 (PLT-only)
File: ti-connectivity/wl127x-fw-4-sr.bin
Version: 6.3.5.0.98 (Single-role)
File: ti-connectivity/wl127x-fw-4-mr.bin
Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.142 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.50 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.142 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.142 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.50 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.142 (PLT-only)

File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

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

The NVS file includes two parts:

- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:

<http://wireless.kernel.org/en/users/Drivers/wl12xx/calibrator>

If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are using wl128x, link to wl128x-nvs.bin instead.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl18xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wl18xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wl18xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wl18xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wl18xx-fw-4.bin
Version: 8.9.0.0.79

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

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for 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.

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Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin

Info: From Vendor's rtl8712_8188_8191_8192SU_usb_linux_v7_0.20100831
Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

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

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin

File: rtlwifi/rtl8192cfwU.bin

File: rtlwifi/rtl8192cfwU_B.bin

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

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

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin

File: rtlwifi/rtl8192cufw_A.bin

File: rtlwifi/rtl8192cufw_B.bin

File: rtlwifi/rtl8192cufw_TMSC.bin

Info: From Vendor's rtl8188C_8192C_usb_linux_v4.0.1_6911.20130308 driver
All files extracted from driver/hal/rtl8192c/usb/Hal8192CUHWImg.c

Relevant variables (CONFIG_BT_COEXISTENCE not set):

- rtlwifi/rtl8192cufw_A.bin: Rtl8192CUFwUMCACutImgArray
- rtlwifi/rtl8192cufw_B.bin: Rtl8192CUFwUMCBCutImgArray
- rtlwifi/rtl8192cufw_TMSC.bin: Rtl8192CUFwTSMCImgArray

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: 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: rtl8821ae - Realtek 802.11n WLAN driver for RTL8812AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8812aefw.bin
File: rtlwifi/rtl8812aefw_wowlan.bin

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

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821aefw_29.bin

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

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin

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

Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE

Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang
<yhchuang@realtek.com>

```
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README
File: rtw88/rtw8723d_fw.bin
File: rtw88/rtw8821c_fw.bin
```

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

```
These firmware should be put under /lib/firmware/rtw88/
And note that the rtw88 driver is able to support wake-on-wireless LAN
for RTL8822C devices, after kernel v5.6+. So, make sure the firmware
rtw88/rtw8822c_wow_fw.bin is also packed, otherwise the firmware load
fail could be a problem.
Although RTL8723D devices are 802.11n device, they are also supported
by rtw88 because the hardware arch is similar.
```

Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8851B/RTL8852A/RTL8852B/RTL8852C

```
File: rtw89/rtw8851b_fw.bin
File: rtw89/rtw8852a_fw.bin
File: rtw89/rtw8852b_fw.bin
File: rtw89/rtw8852b_fw-1.bin
File: rtw89/rtw8852c_fw.bin
```

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

Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

```
Info: Initial version taken from Realtek version
      rtl_92ce_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
      Updated Jan. 14, 2015 with file added by Realtek to
      http://github.com/lwfinger/rtlwifi_new.git.
      Same firmware rtl8192eu_nic.bin so just link them
Link: rtlwifi/rtl8192eefw.bin -> rtl8192eu_nic.bin
```

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

Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

```
Info: Firmware files extracted from data statements in Realtek driver
      v4.3.5.5_12290.20140916_BTCOEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
Link: rtlwifi/rtl8723bs_nic.bin -> rtl8723bu_nic.bin
```

Link: rtlwifi/rtl8723bs_ap_wowlan.bin -> rtl8723bu_ap_wowlan.bin

Link: rtlwifi/rtl8723bs_wowlan.bin -> rtl8723bu_wowlan.bin

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

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.

File: rtlwifi/rtl8723aufw_A.bin

File: rtlwifi/rtl8723aufw_B.bin

File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.

File: rtlwifi/rtl8723bu_nic.bin

File: rtlwifi/rtl8723bu_wowlan.bin

File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
rtl8192EU_WiFi_linux_v5.11.2.1-18-g8e7df912b.20210527_COEX20171113-0047
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.

File: rtlwifi/rtl8192eu_nic.bin

Version: 35.7

File: rtlwifi/rtl8192eu_wowlan.bin

Version: 35.7

File: rtlwifi/rtl8192eu_ap_wowlan.bin

Version: 18.0

Info: rtl8188fu taken from Realtek driver
RTL8188FU_Linux_v4.3.23.6_20964.20170110
Firmware was embedded in the driver as data statements. This info
has been extracted into a binary file.

File: rtlwifi/rtl8188fufw.bin

File: rtlwifi/rtl8710bufw_SMIC.bin

Version: 16.0

File: rtlwifi/rtl8710bufw_UMC.bin

Version: 16.0

Info: rtl8188eu taken from Realtek driver version
v5.2.2.4_25483.20171222.
Firmware is embedded in the driver as data statements. This info

has been extracted into a binary file.
File: rtlwifi/rtl8188eufw.bin
Version: 28.0

Info: rtl8192fu taken from Realtek driver version
v5.8.6.2_35538.20191028_COEX20190910-0d02.
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8192fufw.bin
Version: 6.0

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

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

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw

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

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

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

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

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

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

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

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

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

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

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

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

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

File: rtl_nic/rtl8168fp-3.fw
Version: 0.0.1

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

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

File: rtl_nic/rtl8125a-3.fw
Version: 0.0.1

File: rtl_nic/rtl8125b-1.fw
Version: 0.0.2

File: rtl_nic/rtl8125b-2.fw
Version: 0.0.2

Licence:

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Driver: r8152 - Realtek RTL8152/RTL8153 Based USB Ethernet Adapters

File: rtl_nic/rtl8153a-2.fw
File: rtl_nic/rtl8153a-3.fw
File: rtl_nic/rtl8153a-4.fw
File: rtl_nic/rtl8153b-2.fw
File: rtl_nic/rtl8153c-1.fw
File: rtl_nic/rtl8156a-2.fw
File: rtl_nic/rtl8156b-2.fw

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

Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw

Licence: Redistributable. See LICENCE.via_vt6656 for details.

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu

File: ar3k/ramps_0x01020001_26.dfu

File: ar3k/AthrBT_0x01020200.dfu

File: ar3k/ramps_0x01020200_26.dfu

File: ar3k/ramps_0x01020200_40.dfu

File: ar3k/AthrBT_0x31010000.dfu

File: ar3k/ramps_0x31010000_40.dfu

File: ar3k/AthrBT_0x11020000.dfu

File: ar3k/ramps_0x11020000_40.dfu

File: ar3k/ramps_0x01020201_26.dfu

File: ar3k/ramps_0x01020201_40.dfu

File: ar3k/AthrBT_0x41020000.dfu

File: ar3k/ramps_0x41020000_40.dfu

File: ar3k/AthrBT_0x11020100.dfu

File: ar3k/ramps_0x11020100_40.dfu

File: ar3k/AthrBT_0x31010100.dfu

File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu

File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

Driver:Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst

File: ar3k/1020201/RamPatch.txt

File: ar3k/1020200/ar3kbdaddr.pst

File: ar3k/1020200/PS_ASIC.pst

File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS_ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst
File: ar3k/30000/PS_ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/eeprom.data
File: ath6k/AR6002/eeprom.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
File: ath10k/QCA988X/hw2.0/firmware-4.bin
Version: 10.2.4.45
File: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA988X/hw2.0/firmware-5.bin
Version: 10.2.4-1.0-00047
File: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw2.1/board.bin
File: ath10k/QCA6174/hw2.1/board-2.bin
File: ath10k/QCA6174/hw2.1/firmware-5.bin
Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
File: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw3.0/board.bin
File: ath10k/QCA6174/hw3.0/board-2.bin
File: ath10k/QCA6174/hw3.0/firmware-4.bin
Version: WLAN.RM.2.0-00180-QCARMSWPZ-1
File: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA6174/hw3.0/firmware-6.bin
Version: WLAN.RM.4.4.1-00288-QCARMSWPZ-1
File: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-6.txt
File: ath10k/QCA6174/hw3.0/firmware-sdio-6.bin
Version: WLAN.RMH.4.4.1-00174
File: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-sdio-6.txt
File: ath10k/QCA9377/hw1.0/board.bin
File: ath10k/QCA9377/hw1.0/board-2.bin
File: ath10k/QCA9377/hw1.0/firmware-5.bin
Version: WLAN.TF.1.0-00002-QCATFSWPZ-5
File: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-sdio-5.bin
Version: WLAN.TF.1.1.1-00061-QCATFSWPZ-1
File: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-sdio-5.txt
File: ath10k/QCA99X0/hw2.0/board-2.bin
File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
File: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA4019/hw1.0/board-2.bin
File: ath10k/QCA4019/hw1.0/firmware-5.bin
Version: 10.4-3.6-00140
File: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9887/hw1.0/board.bin
File: ath10k/QCA9887/hw1.0/firmware-5.bin
Version: 10.2.4-1.0-00047
File: ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9888/hw2.0/board-2.bin
File: ath10k/QCA9888/hw2.0/firmware-5.bin
Version: 10.4-3.9.0.2-00157
File: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9984/hw1.0/board-2.bin
File: ath10k/QCA9984/hw1.0/firmware-5.bin
Version: 10.4-3.9.0.2-00157

```
File: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-6.bin
Version: WLAN.TF.2.1-00021-QCARMSWP-1
File: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-6.txt
File: ath10k/WCN3990/hw1.0/board-2.bin
File: ath10k/WCN3990/hw1.0/firmware-5.bin
File: qcom/sdm845/wlanmdsp.mbn
Link: ath10k/WCN3990/hw1.0/wlanmdsp.mbn -> ../../../../qcom/sdm845/wlanmdsp.mbn
Version: WLAN.HL.2.0-01387-QCAHLSWMTPLZ-1
File: qcom/sdm845/notice.txt_wlanmdsp
```

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Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

```
File: ath11k/IPQ6018/hw1.0/board-2.bin
File: ath11k/IPQ6018/hw1.0/m3_fw.b00
File: ath11k/IPQ6018/hw1.0/m3_fw.b01
File: ath11k/IPQ6018/hw1.0/m3_fw.b02
File: ath11k/IPQ6018/hw1.0/m3_fw.flist
File: ath11k/IPQ6018/hw1.0/m3_fw.mdt
File: ath11k/IPQ6018/hw1.0/q6_fw.b00
File: ath11k/IPQ6018/hw1.0/q6_fw.b01
File: ath11k/IPQ6018/hw1.0/q6_fw.b02
File: ath11k/IPQ6018/hw1.0/q6_fw.b03
File: ath11k/IPQ6018/hw1.0/q6_fw.b04
File: ath11k/IPQ6018/hw1.0/q6_fw.b05
File: ath11k/IPQ6018/hw1.0/q6_fw.b07
File: ath11k/IPQ6018/hw1.0/q6_fw.b08
File: ath11k/IPQ6018/hw1.0/q6_fw.flist
File: ath11k/IPQ6018/hw1.0/q6_fw.mdt
Version: WLAN.HK.2.7.0.1-01744-QCAHKSUWPL_SILICONZ-1
File: ath11k/IPQ6018/hw1.0/Notice.txt
File: ath11k/IPQ8074/hw2.0/board-2.bin
File: ath11k/IPQ8074/hw2.0/m3_fw.b00
File: ath11k/IPQ8074/hw2.0/m3_fw.b01
File: ath11k/IPQ8074/hw2.0/m3_fw.b02
File: ath11k/IPQ8074/hw2.0/m3_fw.flist
File: ath11k/IPQ8074/hw2.0/m3_fw.mdt
File: ath11k/IPQ8074/hw2.0/q6_fw.b00
File: ath11k/IPQ8074/hw2.0/q6_fw.b01
File: ath11k/IPQ8074/hw2.0/q6_fw.b02
File: ath11k/IPQ8074/hw2.0/q6_fw.b03
File: ath11k/IPQ8074/hw2.0/q6_fw.b04
File: ath11k/IPQ8074/hw2.0/q6_fw.b05
File: ath11k/IPQ8074/hw2.0/q6_fw.b07
File: ath11k/IPQ8074/hw2.0/q6_fw.b08
File: ath11k/IPQ8074/hw2.0/q6_fw.flist
```

```
File: ath11k/IPQ8074/hw2.0/q6_fw.mdt
Version: WLAN.HK.2.7.0.1-01744-QCAHKSUPL_SILICONZ-1
File: ath11k/IPQ8074/hw2.0/Notice.txt
File: ath11k/QCA6390/hw2.0/board-2.bin
File: ath11k/QCA6390/hw2.0/amss.bin
File: ath11k/QCA6390/hw2.0/m3.bin
Version: WLAN.HST.1.0.1-05266-QCAHSTUPLZ_V2_TO_X86-1
File: ath11k/QCA6390/hw2.0/Notice.txt
File: ath11k/WCN6855/hw2.0/regdb.bin
File: ath11k/WCN6855/hw2.0/board-2.bin
File: ath11k/WCN6855/hw2.0/amss.bin
File: ath11k/WCN6855/hw2.0/m3.bin
Version: WLAN.HSP.1.1-03125-QCAHSPUPL_V1_V2_SILICONZ_LITE-3.6510.23
File: ath11k/WCN6855/hw2.0/Notice.txt
Link: ath11k/WCN6855/hw2.1/regdb.bin -> ../hw2.0/regdb.bin
Link: ath11k/WCN6855/hw2.1/board-2.bin -> ../hw2.0/board-2.bin
Link: ath11k/WCN6855/hw2.1/amss.bin -> ../hw2.0/amss.bin
Link: ath11k/WCN6855/hw2.1/m3.bin -> ../hw2.0/m3.bin
File: ath11k/QCN9074/hw1.0/board-2.bin
File: ath11k/QCN9074/hw1.0/amss.bin
File: ath11k/QCN9074/hw1.0/m3.bin
Version: WLAN.HK.2.7.0.1-01744-QCAHKSUPL_SILICONZ-1
File: ath11k/QCN9074/hw1.0/Notice.txt
File: ath11k/WCN6750/hw1.0/board-2.bin
File: ath11k/WCN6750/hw1.0/wpss.b00
File: ath11k/WCN6750/hw1.0/wpss.b01
File: ath11k/WCN6750/hw1.0/wpss.b02
File: ath11k/WCN6750/hw1.0/wpss.b03
File: ath11k/WCN6750/hw1.0/wpss.b04
File: ath11k/WCN6750/hw1.0/wpss.b05
File: ath11k/WCN6750/hw1.0/wpss.b06
File: ath11k/WCN6750/hw1.0/wpss.b07
File: ath11k/WCN6750/hw1.0/wpss.b08
File: ath11k/WCN6750/hw1.0/wpss.mdt
Version: WLAN.MSL.1.0.1-01160-QCAMSLUPLZ-1
File: ath11k/WCN6750/hw1.0/Notice.txt
File: ath11k/IPQ5018/hw1.0/board-2.bin
File: ath11k/IPQ5018/hw1.0/m3_fw.b00
File: ath11k/IPQ5018/hw1.0/m3_fw.b01
File: ath11k/IPQ5018/hw1.0/m3_fw.b02
File: ath11k/IPQ5018/hw1.0/m3_fw.flist
File: ath11k/IPQ5018/hw1.0/m3_fw.mdt
File: ath11k/IPQ5018/hw1.0/q6_fw.b00
File: ath11k/IPQ5018/hw1.0/q6_fw.b01
File: ath11k/IPQ5018/hw1.0/q6_fw.b02
File: ath11k/IPQ5018/hw1.0/q6_fw.b03
File: ath11k/IPQ5018/hw1.0/q6_fw.b04
File: ath11k/IPQ5018/hw1.0/q6_fw.b05
File: ath11k/IPQ5018/hw1.0/q6_fw.b07
File: ath11k/IPQ5018/hw1.0/q6_fw.b08
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File: ath11k/IPQ5018/hw1.0/q6_fw.b09
File: ath11k/IPQ5018/hw1.0/q6_fw.b10
File: ath11k/IPQ5018/hw1.0/q6_fw.b11
File: ath11k/IPQ5018/hw1.0/q6_fw.b13
File: ath11k/IPQ5018/hw1.0/q6_fw.b14
File: ath11k/IPQ5018/hw1.0/q6_fw.flist
File: ath11k/IPQ5018/hw1.0/q6_fw.mdt
Version: WLAN.HK.2.6.0.1-00861-QCAHKSUPL_SILICONZ-1
File: ath11k/IPQ5018/hw1.0/Notice.txt

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: myri10ge - Myri10GE 10GbE NIC driver

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

License: Redistributable. See LICENSE.myri10ge_firmware for details.

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENSE.atheros_firmware for details

Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst
File: ar3k/30101coex/PS_ASIC_aclLowPri.pst
File: ar3k/30101coex/PS_ASIC_aclHighPri.pst
File: ar3k/30101coex/PS_ASIC.pst

File: ar3k/30101coex/RamPatch.txt

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Driver: drxk - Micronas DRX-K demodulator driver

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

Licence: Redistributable.

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

File: ene-ub6250/sd_init1.bin

File: ene-ub6250/sd_init2.bin

File: ene-ub6250/sd_rdwr.bin

File: ene-ub6250/ms_init.bin

File: ene-ub6250/msp_rdwr.bin

File: ene-ub6250/ms_rdwr.bin

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Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin

Source: isci/

Licence: GPLv2. See GPL-2 for details.

Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw
File: s5p-mfc-v12.fw

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from <http://linuxwireless.org/en/users/Drivers/carl9170>

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.. See GPL-2 for details.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316.02.00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.8.bseq
Version: 1339_02.00
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq
Version: BT_StonePeak_C0_REL_59_0001
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq
Version: BT_StonePeak_D0_REL_50_0002
File: intel/ibt-hw-37.8.10-fw-22.50.19.14.f.bseq
Version: BT_StonePeak_D1_REL_67_1278
File: intel/ibt-11-5.ddc
Version: LnP/SfP_REL1294
File: intel/ibt-11-5.sfi
Version: BT_LightningPeak_REL0487
File: intel/ibt-12-16.ddc
Version: BT_WindStormPeak_REL1299
File: intel/ibt-12-16.sfi
Version: BT_WindStormPeak_REL1299
File: intel/ibt-17-16-1.sfi
Version: BT_JeffersonPeak_B0_B0_REL20379
File: intel/ibt-17-16-1.ddc
Version: BT_JeffersonPeak_B0_B0_REL20379
File: intel/ibt-17-2.sfi
Version: BT_JeffersonPeak_B0_B0_REL20379
File: intel/ibt-17-2.ddc
Version: BT_JeffersonPeak_B0_B0_REL20379
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_REL20379
File: intel/ibt-18-16-1.ddc
Version: BT_ThunderPeak_B0_B0_REL20379
File: intel/ibt-18-2.sfi
Version: BT_ThunderPeak_B0_B0_REL20379
File: intel/ibt-18-2.ddc

Version: BT_ThunderPeak_B0_B0_REL20379
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_REL53497
File: intel/ibt-20-0-3.ddc
Version: BT_CyclonePeak_A0_REL53497
File: intel/ibt-20-1-3.sfi
Version: BT_CyclonePeak_A0_REL53497
File: intel/ibt-20-1-3.ddc
Version: BT_CyclonePeak_A0_REL53497
File: intel/ibt-20-1-4.sfi
Version: BT_CyclonePeak_A0_REL53497
File: intel/ibt-20-1-4.ddc
Version: BT_CyclonePeak_A0_REL53497
File: intel/ibt-19-0-0.sfi
Version: BT_Quasar_REL53497
File: intel/ibt-19-0-0.ddc
Version: BT_Quasar_REL53497
File: intel/ibt-19-0-1.sfi
Version: BT_Quasar_REL53497
File: intel/ibt-19-0-1.ddc
Version: BT_Quasar_REL53497
File: intel/ibt-19-0-3.sfi
Version: BT_Quasar_REL53263
File: intel/ibt-19-0-3.ddc
Version: BT_Quasar_REL53263
File: intel/ibt-19-0-4.sfi
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-0-4.ddc
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-16-4.sfi
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-16-4.ddc
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-1.sfi
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-1.ddc
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-0.sfi
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-0.ddc
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-4.sfi

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Version: BT_HarrisonPeak_REL53497
File:intel/ibt-19-32-4.ddc
Version: BT_HarrisonPeak_REL53497
File:intel/ibt-19-240-1.sfi
Version: BT_HarrisonPeak_REL53497
File:intel/ibt-19-240-1.ddc
Version: BT_HarrisonPeak_REL53497
File:intel/ibt-19-240-4.sfi
Version: BT_HarrisonPeak_REL53497
File:intel/ibt-19-240-4.ddc
Version: BT_HarrisonPeak_REL53497
File:intel/ibt-0041-0041.sfi
Version: BT_TyphoonPeak_REL73111
File:intel/ibt-0041-0041.ddc
Version: BT_TyphoonPeak_REL73111
File:intel/ibt-0040-0041.sfi
Version: BT_Solar_GfP2_REL73111
File:intel/ibt-0040-0041.ddc
Version: BT_Solar_GfP2_REL73111
File:intel/ibt-1040-0041.sfi
Version: BT_SolarF_GfP2_REL73111
File:intel/ibt-1040-0041.ddc
Version: BT_SolarF_GfP2_REL73111

File:intel/ibt-0040-1020.sfi
Version: BT_Solar_JfP1_REL59564
File:intel/ibt-0040-1020.ddc
Version: BT_Solar_JfP1_REL59564
File:intel/ibt-1040-1020.sfi
Version: BT_SolarF_JfP1_REL59564
File:intel/ibt-1040-1020.ddc
Version: BT_SolarF_JfP1_REL59564

File:intel/ibt-0040-2120.sfi
Version: BT_Solar_JfP2_REL52159
File:intel/ibt-0040-2120.ddc
Version: BT_Solar_JfP2_REL52159
File:intel/ibt-1040-2120.sfi
Version: BT_SolarF_JfP2_REL59564
File:intel/ibt-1040-2120.ddc
Version: BT_SolarF_JfP2_REL59564

File:intel/ibt-0040-1050.sfi
Version: BT_Solar_HrP1_REL73111
File:intel/ibt-0040-1050.ddc
Version: BT_Solar_HrP1_REL73111
File:intel/ibt-1040-1050.sfi
Version: BT_SolarF_HrP1_REL73111
File:intel/ibt-1040-1050.ddc
Version: BT_SolarF_HrP1_REL73111
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File:intel/ibt-0040-4150.sfi
Version: BT_Solar_JnP2_REL73111
File:intel/ibt-0040-4150.ddc
Version: BT_Solar_JnP2_REL73111
File:intel/ibt-1040-4150.sfi
Version: BT_SolarF_JnP2_REL73111
File:intel/ibt-1040-4150.ddc
Version: BT_SolarF_JnP2_REL73111

File:intel/ibt-0291-0291.sfi
Version: BT_GalePeak_REL45894
File:intel/ibt-0291-0291.ddc
Version: BT_GalePeak_REL45894

File:intel/ibt-0180-0041.sfi
Version: BT_Magnetar_GfP2_REL91648
File:intel/ibt-0180-0041.ddc
Version: BT_Magnetar_GfP2_REL91648

File:intel/ibt-0180-4150.sfi
Version: BT_Magnetar_JnP2_REL91648
File:intel/ibt-0180-4150.ddc
Version: BT_Magnetar_JnP2_REL91648

File:intel/ibt-0180-1050.sfi
Version: BT_Magnetar_HrP1_REL91648
File:intel/ibt-0180-1050.ddc
Version: BT_Magnetar_HrP1_REL91648

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File: rtl_bt/rtl8192ee_fw.bin
File: rtl_bt/rtl8192eu_fw.bin
File: rtl_bt/rtl8723a_fw.bin
File: rtl_bt/rtl8723b_fw.bin
File: rtl_bt/rtl8723bs_fw.bin
File: rtl_bt/rtl8723bs_config-OBDA8723.bin
Link: rtl_bt/rtl8723bs_config-OBDA0623.bin -> rtl8723bs_config-OBDA8723.bin
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8761b_fw.bin
File: rtl_bt/rtl8761b_config.bin
File: rtl_bt/rtl8761bu_fw.bin
File: rtl_bt/rtl8761bu_config.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
Link: rtl_bt/rtl8821a_config.bin -> rtl8821c_config.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin
File: rtl_bt/rtl8723d_fw.bin

File: rtl_bt/rtl8723d_config.bin
File: rtl_bt/rtl8821c_fw.bin
File: rtl_bt/rtl8821c_config.bin
File: rtl_bt/rtl8821cs_fw.bin
File: rtl_bt/rtl8821cs_config.bin
File: rtl_bt/rtl8822cu_fw.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cs_fw.bin
File: rtl_bt/rtl8822cs_config.bin
File: rtl_bt/rtl8852au_fw.bin
File: rtl_bt/rtl8852au_config.bin
File: rtl_bt/rtl8852bu_fw.bin
File: rtl_bt/rtl8852bu_config.bin
File: rtl_bt/rtl8852cu_fw.bin
File: rtl_bt/rtl8852cu_fw_v2.bin
File: rtl_bt/rtl8852cu_config.bin
File: rtl_bt/rtl8851bu_fw.bin
File: rtl_bt/rtl8851bu_config.bin

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

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are updated on April 14, 2017.

Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_config.bin

Driver: btmtk_usb - Bluetooth USB driver

File: mediatek/mt7650.bin
Link: mt7650.bin -> mediatek/mt7650.bin

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Driver: rp2 -- Control RocketPort 2 serial driver

File: rp2.fw

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/lr192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

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Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2022-2-25
File: amd/amd_sev_fam17h_model13xh.sbin
Version: 2022-2-25
File: amd/amd_sev_fam19h_model0xh.sbin
Version: 2023-8-23
File: amd/amd_sev_fam19h_model11xh.sbin
Version: 2023-8-23

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Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

RawFile: amd-ucode/microcode_amd.bin
Version: 2013-07-10
RawFile: amd-ucode/microcode_amd_fam15h.bin
Version: 2018-05-24
RawFile: amd-ucode/microcode_amd_fam16h.bin
Version: 2014-10-28
RawFile: amd-ucode/microcode_amd_fam17h.bin
Version: 2023-12-05
RawFile: amd-ucode/microcode_amd_fam19h.bin
Version: 2023-10-19
File: amd-ucode/README

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

Driver: mxullx0 - MOXA UPort 11x0 USB Serial hub driver

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

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Driver: mxuport - MOXA UPort USB Serial hub driver

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

License: Redistributable. See LICENCE.moxa for details

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

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

File: sdd_sagrad_1091_1098.bin

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

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

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Driver: qat - Intel(R) QAT crypto accelerator

```
File: qat_895xcc.bin
File: qat_895xcc_mmp.bin
File: qat_c3xxx.bin
File: qat_c3xxx_mmp.bin
File: qat_c62x.bin
File: qat_c62x_mmp.bin
Link: qat_mmp.bin -> qat_895xcc_mmp.bin
File: qat_4xxx.bin
File: qat_4xxx_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_catpt -- Intel AudioDSP driver for HSW/BDW platforms

File: intel/catpt/bdw/dsp_basefw.bin

Version: 44b81c4d5397a63108356f58f036953d9b288c4e

Link: intel/IntcSST2.bin -> catpt/bdw/dsp_basefw.bin

License: Redistributable. See LICENCE.IntcSST2 for details

Driver: snd_soc_avs -- Intel AudioDSP driver for CAVS platforms

File: intel/avs/skl/dsp_basefw.bin

File: intel/avs/skl/dsp_mod_7CAD0808-AB10-CD23-EF45-12AB34CD56EF.bin

Version: 9.21.00.4899

Link: intel/dsp_fw_release.bin -> avs/skl/dsp_basefw.bin

Link: intel/dsp_fw_kbl.bin -> avs/skl/dsp_basefw.bin

File: intel/avs/apl/dsp_basefw.bin

Version: 9.22.01.4908

Link: intel/dsp_fw_bxtn.bin -> avs/apl/dsp_basefw.bin

Link: intel/dsp_fw_glk.bin -> avs/apl/dsp_basefw.bin

File: intel/avs/cnl/dsp_basefw.bin

Version: 10.23.00.8551

Link: intel/dsp_fw_cnl.bin -> avs/cnl/dsp_basefw.bin

License: Redistributable. See LICENCE.adsp_sst 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

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

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

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

File: intel/dsp_fw_cnl_v1191.bin
Version: 10.00.00.1191
File: intel/dsp_fw_cnl_v1858.bin
Version: 10.23.00.1858

License: Redistributable. See LICENCE.adsp_sst for details

Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_venice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: smslxxx-hcw-55xxx-dvbt-02.fw
File: smslxxx-hcw-55xxx-isdbt-02.fw
File: smslxxx-nova-a-dvbt-01.fw
File: smslxxx-nova-b-dvbt-01.fw
File: smslxxx-stellar-dvbt-01.fw
File: tdmb_nova_12mhz.inp

License: Redistributable. See LICENCE.siano for details

Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.24

File: nvidia/tegra186/xusb.bin
Version: v55.15

File: nvidia/tegra194/xusb.bin
Version: v60.06

Licence: Redistributable. See LICENCE.nvidia for details

Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03_ucose.bin
Link: nvidia/tegra124/vic.bin -> vic03_ucose.bin

File: nvidia/tegra210/vic04_ucose.bin
Link: nvidia/tegra210/vic.bin -> vic04_ucose.bin

File: nvidia/tegra186/vic04_ucose.bin
Link: nvidia/tegra186/vic.bin -> vic04_ucose.bin

File: nvidia/tegra194/vic.bin

Licence: Redistributable. See LICENCE.nvidia for details

Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu
Version: 0.2

File: atusb/atusb-0.3.dfu
Version: 0.3

File: atusb/rzusb-0.3.bin
Version: 0.3

Info: atusb/ChangeLog

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

Driver: btqca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin

File: qca/nvm_usb_00000200.bin
File: qca/nvm_usb_00000300.bin
File: qca/nvm_usb_00000302.bin
File: qca/nvm_00130300.bin
File: qca/nvm_00130302.bin
File: qca/nvm_00230302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin
File: qca/rampatch_00230302.bin
File: qca/nvm_00440302.bin
File: qca/rampatch_00440302.bin
File: qca/nvm_00440302_eu.bin
File: qca/nvm_00440302_i2s_eu.bin
File: qca/nvm_usb_00000302_eu.bin
File: qca/htbtfw20.tlv
File: qca/htnv20.bin
File: qca/rampatch_usb_00130200.bin
File: qca/nvm_usb_00130200.bin
File: qca/nvm_usb_00130200_0104.bin
File: qca/nvm_usb_00130200_0105.bin
File: qca/nvm_usb_00130200_0106.bin
File: qca/nvm_usb_00130200_0107.bin
File: qca/nvm_usb_00130200_0109.bin
File: qca/nvm_usb_00130200_0110.bin
File: qca/rampatch_usb_00130201.bin
File: qca/nvm_usb_00130201.bin
File: qca/nvm_usb_00130201_010a.bin
File: qca/nvm_usb_00130201_010b.bin
File: qca/nvm_usb_00130201_0303.bin
File: qca/nvm_usb_00130201_gf.bin
File: qca/nvm_usb_00130201_gf_010a.bin
File: qca/nvm_usb_00130201_gf_010b.bin
File: qca/nvm_usb_00130201_gf_0303.bin
File: qca/rampatch_usb_00190200.bin
File: qca/nvm_usb_00190200.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

Driver: qca - Qualcomm Atheros Bluetooth support for WCN3988 chips

File: qca/apbtfw10.tlv
File: qca/apbtfw11.tlv
File: qca/apnv10.bin

File: qca/apnv11.bin

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

Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbtfw21.tlv

File: qca/crnv21.bin

File: qca/crbtfw32.tlv

File: qca/crnv32.bin

File: qca/crnv32u.bin

Driver: qca - Qualcomm Atheros Bluetooth support for WCN6750 chips

File: qca/msbtfw11.mbn

File: qca/msbtfw11.tlv

File: qca/msnv11.bin

File: qca/msnv11.b0a

File: qca/msnv11.b09

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

Driver: qca - Qualcomm Atheros Bluetooth support for QCA2066 chips

File: qca/hpbtfw21.tlv

File: qca/hpnv21.bin

File: qca/hpnv21g.bin

File: qca/hpnv21.301

File: qca/hpnv21.302

File: qca/hpnv21g.301

File: qca/hpnv21g.302

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_210nv_nic.bin

Version: v1.7.2

File: liquidio/lio_210sv_nic.bin

Version: v1.7.2

File: liquidio/lio_410nv_nic.bin

Version: v1.7.2

Licence: Redistributable. See LICENCE.cavium_liquidio for details

Driver: nitrox -- Cavium CNN55XX crypto driver

File: cavium/cnn55xx_ae.fw

Version: v01

File: cavium/cnn55xx_se.fw

Version: v10

Licence: Redistributable. See LICENCE.cavium for details

Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin

File: i915/skl_dmc_ver1_26.bin

File: i915/skl_dmc_ver1_27.bin

Link: i915/skl_dmc_ver1.bin -> skl_dmc_ver1_26.bin

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

File: i915/bxt_dmc_ver1_07.bin

Link: i915/bxt_dmc_ver1.bin -> bxt_dmc_ver1_07.bin

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

File: i915/kbl_dmc_ver1_01.bin

Link: i915/kbl_dmc_ver1.bin -> kbl_dmc_ver1_01.bin

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

File: i915/kbl_dmc_ver1_04.bin

Version: DMC API/ABI ver 1 - release 04 for Kabylake

File: i915/skl_guc_ver1.bin

Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin

Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin

Link: i915/skl_guc_ver6.bin -> skl_guc_ver6_1.bin

Version: Guc API/ABI ver 6 - release 1 for Skylake

File: i915/skl_guc_ver9_33.bin
Version: Guc API/ABI ver 9 - release 33 for Skylake

File: i915/skl_guc_32.0.3.bin
Version: Guc API/ABI ver 32 - release 0 for Skylake

File: i915/skl_guc_33.0.0.bin
Version: Guc API/ABI ver 33 - release 0 for Skylake

File: i915/skl_guc_49.0.1.bin
Version: Guc API/ABI ver 49 - release 0 for Skylake

File: i915/skl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Skylake

File: i915/skl_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Skylake

File: i915/skl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Skylake

File: i915/skl_huc_ver01_07_1398.bin
Version: HuC API/ABI ver 1 - release 7 for Skylake

File: i915/skl_huc_2.0.0.bin
Version: HuC API/ABI ver 2 - release 0 for Skylake

File: i915/bxt_huc_ver01_07_1398.bin
Version: HuC API/APB ver 1 - release 7 for Broxton

File: i915/bxt_huc_ver01_8_2893.bin
Version: HuC API/APB ver 1 - release 8 for Broxton

File: i915/bxt_huc_2.0.0.bin
Version: HuC API/APB ver 2 - release 0 for Broxton

File: i915/kbl_huc_ver02_00_1810.bin
Version: HuC API/APB ver 2 - for Kabylake

File: i915/kbl_huc_4.0.0.bin
Version: HuC API/APB ver 4 - for Kabylake

File: i915/bxt_guc_ver8_7.bin
Version: Guc API/APB ver 8 - release 7 for Broxton

File: i915/bxt_guc_ver9_29.bin
Version: Guc API/APB ver 9 - release 29 for Broxton

File: i915/bxt_guc_32.0.3.bin
Version: Guc API/APB ver 32 - release 0 for Broxton

File: i915/bxt_guc_33.0.0.bin
Version: Guc API/APB ver 33 - release 0 for Broxton

File: i915/bxt_guc_49.0.1.bin
Version: Guc API/APB ver 49 - release 0 for Broxton

File: i915/bxt_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Broxton

File: i915/bxt_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Broxton

File: i915/bxt_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Broxton

File: i915/kbl_guc_ver9_14.bin
Version: Guc API/APB ver 9 release 14 for Kabylake

File: i915/cml_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Comet Lake

File: i915/cml_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Comet Lake

File: i915/cml_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Comet Lake

File: i915/cml_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Comet Lake

File: i915/cml_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Comet Lake

File: i915/kbl_guc_ver9_39.bin
Version: Guc API/APB ver 9 release 39 for Kabylake

File: i915/kbl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Kabylake

File: i915/kbl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Kabylake

File: i915/kbl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Kabylake

File: i915/kbl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Kabylake

File: i915/kbl_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Kabylake

File: i915/kbl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Kabylake

File: i915/glk_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/glk_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Geminilake

File: i915/glk_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Geminilake

File: i915/glk_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Geminilake

File: i915/glk_huc_ver03_01_2893.bin
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/glk_huc_4.0.0.bin
Version: Huc API/APB ver 4 release 0 for Geminilake

File: i915/glk_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cml_huc_4.0.0.bin
Version: HuC API/ABI ver 4 - release 0 for Cometlake

File: i915/cnl_dmc_ver1_06.bin
Version: DMC API/ABI ver 1 - release 06 for Cannonlake

File: i915/cnl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl_dmc_ver1_09.bin
Version: DMC API/ABI ver 1 - release 09 for icelake

File: i915/icl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Icelake

File: i915/icl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Icelake

File: i915/icl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Icelake

File: i915/icl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Icelake

File: i915/icl_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Icelake

File: i915/icl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Icelake

File: i915/icl_huc_ver8_4_3238.bin
Version: Huc API/APB ver 8 release 4 for Icelake

File: i915/tgl_dmc_ver2_04.bin
Version: DMC API/APB ver 2 release 4 for Tigerlake

File: i915/tgl_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for Tigerlake

File: i915/tgl_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for Tigerlake

File: i915/tgl_dmc_ver2_12.bin
Version: DMC API/APB ver 2 release 12 for Tigerlake

File: i915/icl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Icelake

File: i915/ehl_guc_33.0.4.bin
Version: Guc API/APB ver 33 release 0 for Elkhartlake

File: i915/ehl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Elkhartlake

File: i915/ehl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Elkhartlake

File: i915/ehl_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Elkhartlake

File: i915/ehl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Elkhartlake

File: i915/ehl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Elkhartlake

File: i915/tgl_guc_35.2.0.bin
Version: GuC API/APB ver 35 release 2 for Tigerlake

File: i915/tgl_guc_49.0.1.bin
Version: GuC API/APB ver 49 release 0 for Tigerlake

File: i915/tgl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Tigerlake

File: i915/tgl_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Tigerlake

File: i915/tgl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Tigerlake

File: i915/tgl_guc_70.bin
Version: GuC API/APB ver 70.13.1 for Tigerlake

File: i915/tgl_huc_7.0.3.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.0.12.bin
Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.5.0.bin
Version: Huc API/APB ver 7 release 5 for Tigerlake

File: i915/tgl_huc_7.9.3.bin
Version: Huc API/APB ver 7.9.3 for Tigerlake

File: i915/tgl_huc.bin
Version: Huc API/APB ver 7.9.3 for Tigerlake

File: i915/rkl_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for Rocketlake

File: i915/rkl_dmc_ver2_03.bin
Version: DMC API/APB ver 2 release 3 for Rocketlake

File: i915/dg1_dmc_ver2_02.bin
Version: DMC API/APB ver 2 release 2 for DG1

File: i915/dg1_guc_49.0.1.bin
Version: GuC API/APB ver 49 release 0 for DG1

File: i915/dg1_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for DG1

File: i915/dg1_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for DG1

File: i915/dg1_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for DG1

File: i915/dg1_guc_70.bin

Version: GuC API/APB ver 70.5.1 for DG1

File: i915/dg1_huc_7.7.1.bin

Version: HuC API/APB ver 7 release 1 for DG1

File: i915/dg1_huc_7.9.3.bin

Version: HuC API/APB ver 7.9.3 for DG1

File: i915/dg1_huc.bin

Version: HuC API/APB ver 7.9.3 for DG1

File: i915/adls_dmc_ver2_01.bin

Version: DMC API/APB ver 2 release 1 for Alderlake S

File: i915/adlp_dmc_ver2_09.bin

Version: DMC API/APB ver 2 release 9 for Alderlake P

File: i915/adlp_dmc_ver2_10.bin

Version: DMC API/APB ver 2 release 10 for Alderlake P

File: i915/adlp_dmc_ver2_12.bin

Version: DMC API/APB ver 2 release 12 for Alderlake P

File: i915/adlp_dmc_ver2_14.bin

Version: DMC API/APB ver 2 release 14 for Alderlake P

File: i915/adlp_dmc_ver2_16.bin

Version: DMC API/APB ver 2 release 16 for Alderlake P

File: i915/adlp_dmc.bin

Version: DMC API/APB ver 2 release 20 for Alderlake P

File: i915/adlp_guc_62.0.3.bin

Version: GuC API/APB ver 62.0.3 for Alderlake P

File: i915/adlp_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Alderlake P

File: i915/adlp_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for Alderlake P

File: i915/adlp_guc_70.bin

Version: GuC API/APB ver 70.13.1 for Alderlake P

File: i915/dg2_guc_70.1.2.bin
Version: GuC API/APB ver 70.1.2 for DG2

File: i915/dg2_guc_70.4.1.bin
Version: GuC API/APB ver 70.4.1 for DG2

File: i915/dg2_guc_70.bin
Version: GuC API/APB ver 70.13.1 for DG2

File: i915/dg2_huc_gsc.bin
Version: HuC API/APB ver 7.10.3 for DG2

File: i915/dg2_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for DG2

File: i915/dg2_dmc_ver2_07.bin
Version: DMC API/APB ver 2 release 7 for DG2

File: i915/dg2_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for DG2

File: i915/mtl_dmc_ver2_10.bin
Version: DMC API/APB ver 2 release 10 for Meteorlake

File: i915/mtl_dmc.bin
Version: DMC API/APB ver 2 release 19 for Meteorlake

File: i915/mtl_guc_70.bin
Version: GuC API/APB ver 70.13.1 for Meteorlake

File: i915/mtl_huc_gsc.bin
Version: HuC API/APB ver 8.5.4 for Meteorlake

File: i915/mtl_gsc_1.bin
Version: GSC API/APB v1.0, release 102.0.0.1655, SVN 1 for Meteorlake

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Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin


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File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin
File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
Link: nvidia/gm204/acr/bl.bin -> ../../gm200/acr/bl.bin
Link: nvidia/gm204/acr/ucode_load.bin -> ../../gm200/acr/ucode_load.bin
Link: nvidia/gm204/acr/ucode_unload.bin -> ../../gm200/acr/ucode_unload.bin
Link: nvidia/gm204/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
Link: nvidia/gm204/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
Link: nvidia/gm204/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
Link: nvidia/gm204/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
Link: nvidia/gm204/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm204/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm204/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm204/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
Link: nvidia/gm206/acr/bl.bin -> ../../gm200/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucode_unload.bin
Link: nvidia/gm206/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
Link: nvidia/gm206/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
Link: nvidia/gm206/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
Link: nvidia/gm206/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
Link: nvidia/gm206/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm206/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm206/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm206/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
```

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File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
File: nvidia/gm20b/gr/sw_bundle_init.bin
File: nvidia/gm20b/gr/sw_ctx.bin
Link: nvidia/gm20b/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
File: nvidia/gm20b/gr/sw_nonctx.bin
File: nvidia/gm20b/pmu/desc.bin
File: nvidia/gm20b/pmu/image.bin
File: nvidia/gm20b/pmu/sig.bin
File: nvidia/gp100/acr/bl.bin
File: nvidia/gp100/acr/ucode_load.bin
File: nvidia/gp100/acr/ucode_unload.bin
Link: nvidia/gp100/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gp100/gr/fecs_data.bin
File: nvidia/gp100/gr/fecs_inst.bin
File: nvidia/gp100/gr/fecs_sig.bin
Link: nvidia/gp100/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gp100/gr/gpccs_data.bin
File: nvidia/gp100/gr/gpccs_inst.bin
File: nvidia/gp100/gr/gpccs_sig.bin
File: nvidia/gp100/gr/sw_bundle_init.bin
File: nvidia/gp100/gr/sw_ctx.bin
File: nvidia/gp100/gr/sw_method_init.bin
File: nvidia/gp100/gr/sw_nonctx.bin
File: nvidia/gp102/acr/bl.bin
File: nvidia/gp102/acr/ucode_load.bin
File: nvidia/gp102/acr/ucode_unload.bin
File: nvidia/gp102/acr/unload_bl.bin
Link: nvidia/gp102/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gp102/gr/fecs_data.bin
File: nvidia/gp102/gr/fecs_inst.bin
File: nvidia/gp102/gr/fecs_sig.bin
Link: nvidia/gp102/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gp102/gr/gpccs_data.bin
File: nvidia/gp102/gr/gpccs_inst.bin
File: nvidia/gp102/gr/gpccs_sig.bin
File: nvidia/gp102/gr/sw_bundle_init.bin
File: nvidia/gp102/gr/sw_ctx.bin
File: nvidia/gp102/gr/sw_method_init.bin
File: nvidia/gp102/gr/sw_nonctx.bin
File: nvidia/gp102/nvdec/scrubber.bin
File: nvidia/gp102/sec2/desc.bin
File: nvidia/gp102/sec2/image.bin
File: nvidia/gp102/sec2/sig.bin
File: nvidia/gp102/sec2/desc-1.bin
File: nvidia/gp102/sec2/image-1.bin
File: nvidia/gp102/sec2/sig-1.bin
Link: nvidia/gp104/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp104/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp104/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
```

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Link: nvidia/gp104/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
Link: nvidia/gp104/gr/fecs_bl.bin -> ../../gp102/gr/fecs_bl.bin
File: nvidia/gp104/gr/fecs_data.bin
File: nvidia/gp104/gr/fecs_inst.bin
File: nvidia/gp104/gr/fecs_sig.bin
Link: nvidia/gp104/gr/gpccs_bl.bin -> ../../gp102/gr/gpccs_bl.bin
File: nvidia/gp104/gr/gpccs_data.bin
File: nvidia/gp104/gr/gpccs_inst.bin
File: nvidia/gp104/gr/gpccs_sig.bin
Link: nvidia/gp104/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
Link: nvidia/gp104/gr/sw_ctx.bin -> ../../gp102/gr/sw_ctx.bin
Link: nvidia/gp104/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
Link: nvidia/gp104/gr/sw_nonctx.bin -> ../../gp102/gr/sw_nonctx.bin
Link: nvidia/gp104/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp104/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp104/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp104/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp104/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp104/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp104/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
Link: nvidia/gp106/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp106/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp106/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp106/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
Link: nvidia/gp106/gr/fecs_bl.bin -> ../../gp102/gr/fecs_bl.bin
File: nvidia/gp106/gr/fecs_data.bin
Link: nvidia/gp106/gr/fecs_inst.bin -> ../../gp102/gr/fecs_inst.bin
File: nvidia/gp106/gr/fecs_sig.bin
Link: nvidia/gp106/gr/gpccs_bl.bin -> ../../gp102/gr/gpccs_bl.bin
File: nvidia/gp106/gr/gpccs_data.bin
Link: nvidia/gp106/gr/gpccs_inst.bin -> ../../gp102/gr/gpccs_inst.bin
File: nvidia/gp106/gr/gpccs_sig.bin
Link: nvidia/gp106/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
Link: nvidia/gp106/gr/sw_ctx.bin -> ../../gp102/gr/sw_ctx.bin
Link: nvidia/gp106/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
Link: nvidia/gp106/gr/sw_nonctx.bin -> ../../gp102/gr/sw_nonctx.bin
Link: nvidia/gp106/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp106/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp106/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp106/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp106/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp106/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp106/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
Link: nvidia/gp107/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp107/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp107/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp107/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
File: nvidia/gp107/gr/fecs_bl.bin
File: nvidia/gp107/gr/fecs_data.bin
File: nvidia/gp107/gr/fecs_inst.bin
```

```
File: nvidia/gp107/gr/fecs_sig.bin
File: nvidia/gp107/gr/gpccs_bl.bin
File: nvidia/gp107/gr/gpccs_data.bin
File: nvidia/gp107/gr/gpccs_inst.bin
File: nvidia/gp107/gr/gpccs_sig.bin
Link: nvidia/gp107/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
File: nvidia/gp107/gr/sw_ctx.bin
Link: nvidia/gp107/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
File: nvidia/gp107/gr/sw_nonctx.bin
Link: nvidia/gp107/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp107/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp107/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp107/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp107/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp107/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp107/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gp10b/acr/bl.bin
File: nvidia/gp10b/acr/ucode_load.bin
File: nvidia/gp10b/gr/fecs_bl.bin
File: nvidia/gp10b/gr/fecs_data.bin
File: nvidia/gp10b/gr/fecs_inst.bin
File: nvidia/gp10b/gr/fecs_sig.bin
File: nvidia/gp10b/gr/gpccs_bl.bin
File: nvidia/gp10b/gr/gpccs_data.bin
File: nvidia/gp10b/gr/gpccs_inst.bin
File: nvidia/gp10b/gr/gpccs_sig.bin
File: nvidia/gp10b/gr/sw_bundle_init.bin
File: nvidia/gp10b/gr/sw_ctx.bin
File: nvidia/gp10b/gr/sw_method_init.bin
File: nvidia/gp10b/gr/sw_nonctx.bin
File: nvidia/gp10b/pmu/desc.bin
File: nvidia/gp10b/pmu/image.bin
File: nvidia/gp10b/pmu/sig.bin
Link: nvidia/gp108/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp108/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp108/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp108/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
File: nvidia/gp108/gr/fecs_bl.bin
File: nvidia/gp108/gr/fecs_data.bin
File: nvidia/gp108/gr/fecs_inst.bin
File: nvidia/gp108/gr/fecs_sig.bin
File: nvidia/gp108/gr/gpccs_bl.bin
File: nvidia/gp108/gr/gpccs_data.bin
File: nvidia/gp108/gr/gpccs_inst.bin
File: nvidia/gp108/gr/gpccs_sig.bin
File: nvidia/gp108/gr/sw_bundle_init.bin
File: nvidia/gp108/gr/sw_ctx.bin
File: nvidia/gp108/gr/sw_method_init.bin
File: nvidia/gp108/gr/sw_nonctx.bin
Link: nvidia/gp108/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
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Link: nvidia/gp108/sec2/desc.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp108/sec2/image.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp108/sec2/sig.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gv100/acr/bl.bin
File: nvidia/gv100/acr/ucode_load.bin
File: nvidia/gv100/acr/ucode_unload.bin
File: nvidia/gv100/acr/unload_bl.bin
File: nvidia/gv100/gr/fecs_bl.bin
File: nvidia/gv100/gr/fecs_data.bin
File: nvidia/gv100/gr/fecs_inst.bin
File: nvidia/gv100/gr/fecs_sig.bin
File: nvidia/gv100/gr/gpccs_bl.bin
File: nvidia/gv100/gr/gpccs_data.bin
File: nvidia/gv100/gr/gpccs_inst.bin
File: nvidia/gv100/gr/gpccs_sig.bin
File: nvidia/gv100/gr/sw_bundle_init.bin
File: nvidia/gv100/gr/sw_ctx.bin
File: nvidia/gv100/gr/sw_method_init.bin
File: nvidia/gv100/gr/sw_nonctx.bin
File: nvidia/gv100/nvdec/scrubber.bin
File: nvidia/gv100/sec2/desc.bin
File: nvidia/gv100/sec2/image.bin
File: nvidia/gv100/sec2/sig.bin
File: nvidia/tu102/acr/bl.bin
File: nvidia/tu102/acr/ucode_ahesasc.bin
File: nvidia/tu102/acr/ucode_asb.bin
File: nvidia/tu102/acr/unload_bl.bin
File: nvidia/tu102/acr/ucode_unload.bin
File: nvidia/tu102/gr/fecs_bl.bin
File: nvidia/tu102/gr/fecs_data.bin
File: nvidia/tu102/gr/fecs_inst.bin
File: nvidia/tu102/gr/fecs_sig.bin
File: nvidia/tu102/gr/gpccs_bl.bin
File: nvidia/tu102/gr/gpccs_data.bin
File: nvidia/tu102/gr/gpccs_inst.bin
File: nvidia/tu102/gr/gpccs_sig.bin
File: nvidia/tu102/gr/sw_bundle_init.bin
File: nvidia/tu102/gr/sw_ctx.bin
File: nvidia/tu102/gr/sw_method_init.bin
File: nvidia/tu102/gr/sw_nonctx.bin
File: nvidia/tu102/gr/sw_veid_bundle_init.bin
File: nvidia/tu102/nvdec/scrubber.bin
File: nvidia/tu102/sec2/desc.bin
File: nvidia/tu102/sec2/image.bin
File: nvidia/tu102/sec2/sig.bin
Link: nvidia/tu104/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu104/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu104/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu104/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu104/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
```

```
Link: nvidia/tu104/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu104/gr/fecs_data.bin
File: nvidia/tu104/gr/fecs_inst.bin
File: nvidia/tu104/gr/fecs_sig.bin
Link: nvidia/tu104/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu104/gr/gpccs_data.bin
File: nvidia/tu104/gr/gpccs_inst.bin
File: nvidia/tu104/gr/gpccs_sig.bin
File: nvidia/tu104/gr/sw_bundle_init.bin
File: nvidia/tu104/gr/sw_ctx.bin
File: nvidia/tu104/gr/sw_method_init.bin
File: nvidia/tu104/gr/sw_nonctx.bin
File: nvidia/tu104/gr/sw_veid_bundle_init.bin
Link: nvidia/tu104/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu104/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu104/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu104/sec2/sig.bin -> ../../tu102/sec2/sig.bin
Link: nvidia/tu106/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu106/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu106/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu106/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu106/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu106/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu106/gr/fecs_data.bin
File: nvidia/tu106/gr/fecs_inst.bin
File: nvidia/tu106/gr/fecs_sig.bin
Link: nvidia/tu106/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu106/gr/gpccs_data.bin
File: nvidia/tu106/gr/gpccs_inst.bin
File: nvidia/tu106/gr/gpccs_sig.bin
File: nvidia/tu106/gr/sw_bundle_init.bin
File: nvidia/tu106/gr/sw_ctx.bin
File: nvidia/tu106/gr/sw_method_init.bin
File: nvidia/tu106/gr/sw_nonctx.bin
File: nvidia/tu106/gr/sw_veid_bundle_init.bin
Link: nvidia/tu106/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu106/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu106/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu106/sec2/sig.bin -> ../../tu102/sec2/sig.bin
File: nvidia/tu116/acr/bl.bin
File: nvidia/tu116/acr/ucode_ahesasc.bin
File: nvidia/tu116/acr/ucode_asb.bin
File: nvidia/tu116/acr/ucode_unload.bin
File: nvidia/tu116/acr/unload_bl.bin
File: nvidia/tu116/gr/fecs_bl.bin
File: nvidia/tu116/gr/fecs_data.bin
File: nvidia/tu116/gr/fecs_inst.bin
File: nvidia/tu116/gr/fecs_sig.bin
File: nvidia/tu116/gr/gpccs_bl.bin
File: nvidia/tu116/gr/gpccs_data.bin
```

```
File: nvidia/tu116/gr/gpccs_inst.bin
File: nvidia/tu116/gr/gpccs_sig.bin
File: nvidia/tu116/gr/sw_bundle_init.bin
File: nvidia/tu116/gr/sw_ctx.bin
File: nvidia/tu116/gr/sw_method_init.bin
File: nvidia/tu116/gr/sw_nonctx.bin
File: nvidia/tu116/gr/sw_veid_bundle_init.bin
File: nvidia/tu116/nvdec/scrubber.bin
File: nvidia/tu116/sec2/desc.bin
File: nvidia/tu116/sec2/image.bin
File: nvidia/tu116/sec2/sig.bin
Link: nvidia/tu117/acr/bl.bin -> ../../tu116/acr/bl.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_asb.bin -> ../../tu116/acr/ucode_asb.bin
Link: nvidia/tu117/acr/ucode_unload.bin -> ../../tu116/acr/ucode_unload.bin
Link: nvidia/tu117/acr/unload_bl.bin -> ../../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin
Link: nvidia/tu117/nvdec/scrubber.bin -> ../../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin -> ../../tu116/sec2/sig.bin
File: nvidia/ga102/acr/ucode_ahesasc.bin
File: nvidia/ga102/acr/ucode_asb.bin
File: nvidia/ga102/acr/ucode_unload.bin
File: nvidia/ga102/gr/fecs_bl.bin
File: nvidia/ga102/gr/fecs_sig.bin
File: nvidia/ga102/gr/gpccs_bl.bin
File: nvidia/ga102/gr/gpccs_sig.bin
File: nvidia/ga102/gr/NET_img.bin
File: nvidia/ga102/nvdec/scrubber.bin
File: nvidia/ga102/sec2/desc.bin
File: nvidia/ga102/sec2/hs_bl_sig.bin
File: nvidia/ga102/sec2/image.bin
File: nvidia/ga102/sec2/sig.bin
Link: nvidia/ga103/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga103/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga103/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga103/gr/fecs_bl.bin
```

```
File: nvidia/ga103/gr/fecs_sig.bin
File: nvidia/ga103/gr/gpccs_bl.bin
File: nvidia/ga103/gr/gpccs_sig.bin
File: nvidia/ga103/gr/NET_img.bin
Link: nvidia/ga103/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga103/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga103/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga103/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga103/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga104/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga104/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga104/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga104/gr/fecs_bl.bin
File: nvidia/ga104/gr/fecs_sig.bin
File: nvidia/ga104/gr/gpccs_bl.bin
File: nvidia/ga104/gr/gpccs_sig.bin
File: nvidia/ga104/gr/NET_img.bin
Link: nvidia/ga104/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga104/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga104/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga104/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga104/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga106/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga106/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga106/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga106/gr/fecs_bl.bin
File: nvidia/ga106/gr/fecs_sig.bin
File: nvidia/ga106/gr/gpccs_bl.bin
File: nvidia/ga106/gr/gpccs_sig.bin
File: nvidia/ga106/gr/NET_img.bin
Link: nvidia/ga106/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga106/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga106/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga106/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga106/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga107/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga107/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga107/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga107/gr/fecs_bl.bin
File: nvidia/ga107/gr/fecs_sig.bin
File: nvidia/ga107/gr/gpccs_bl.bin
File: nvidia/ga107/gr/gpccs_sig.bin
File: nvidia/ga107/gr/NET_img.bin
Link: nvidia/ga107/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga107/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga107/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga107/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga107/sec2/sig.bin -> ../../ga102/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
```


File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd

Firmware images needed for GSP-RM:

File: nvidia/tu102/gsp/bootloader-535.113.01.bin
File: nvidia/tu102/gsp/booter_load-535.113.01.bin
File: nvidia/tu102/gsp/booter_unload-535.113.01.bin
Link: nvidia/tu104/gsp -> ../tu102/gsp
Link: nvidia/tu106/gsp -> ../tu102/gsp

File: nvidia/tu116/gsp/booter_load-535.113.01.bin
File: nvidia/tu116/gsp/booter_unload-535.113.01.bin
Link: nvidia/tu116/gsp/bootloader-535.113.01.bin ->
../tu102/gsp/bootloader-535.113.01.bin
Link: nvidia/tu117/gsp -> ../tu116/gsp

File: nvidia/ga100/gsp/bootloader-535.113.01.bin
File: nvidia/ga100/gsp/booter_load-535.113.01.bin
File: nvidia/ga100/gsp/booter_unload-535.113.01.bin

File: nvidia/ad102/gsp/bootloader-535.113.01.bin
File: nvidia/ad102/gsp/booter_load-535.113.01.bin
File: nvidia/ad102/gsp/booter_unload-535.113.01.bin
Link: nvidia/ad103/gsp -> ../ad102/gsp
Link: nvidia/ad104/gsp -> ../ad102/gsp
Link: nvidia/ad106/gsp -> ../ad102/gsp
Link: nvidia/ad107/gsp -> ../ad102/gsp

File: nvidia/ga102/gsp/bootloader-535.113.01.bin
File: nvidia/ga102/gsp/booter_load-535.113.01.bin
File: nvidia/ga102/gsp/booter_unload-535.113.01.bin
Link: nvidia/ga103/gsp -> ../ga102/gsp
Link: nvidia/ga104/gsp -> ../ga102/gsp
Link: nvidia/ga106/gsp -> ../ga102/gsp
Link: nvidia/ga107/gsp -> ../ga102/gsp

File: nvidia/tu102/gsp/gsp-535.113.01.bin
Origin: gsp_tu10x.bin from NVIDIA-Linux-x86_64-535.113.01.run
Link: nvidia/tu116/gsp/gsp-535.113.01.bin -> ../tu102/gsp/gsp-535.113.01.bin
Link: nvidia/ga100/gsp/gsp-535.113.01.bin -> ../tu102/gsp/gsp-535.113.01.bin

File: nvidia/ga102/gsp/gsp-535.113.01.bin
Origin: gsp_ga10x.bin from NVIDIA-Linux-x86_64-535.113.01.run
Link: nvidia/ad102/gsp/gsp-535.113.01.bin -> ../ga102/gsp/gsp-535.113.01.bin

Licence: Redistributable. See LICENCE.nvidia for details

Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 16.0

License: Redistributable. See LICENSE.atmel for details

Driver: hfi1 - Intel OPA Gen 1 adapter

File: hfi1_dc8051.fw
Version: 1.27.0
File: hfi1_fabric.fw
Version: 0x1055
File: hfi1_pcie.fw
Version: 0x4755
File: hfi1_sbus.fw
Version: 0x10130001

Licence: Redistributable. See LICENSE.hfi1_firmware for details

Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

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

Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin
Version: 7.2.8.6

File: mwlwifi/88W8897.bin
Version: 8.2.0.10

Licence: Redistributable. See LICENCE.Marvell for details.

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

```
File: mediatek/mt8173/vpu_d.bin
File: mediatek/mt8173/vpu_p.bin
Link: vpu_d.bin -> mediatek/mt8173/vpu_d.bin
Link: vpu_p.bin -> mediatek/mt8173/vpu_p.bin
```

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mtk_scp - MediaTek SCP System Control Processing Driver

```
File: mediatek/mt8183/scp.img
Version: v2.0.13324
File: mediatek/mt8186/scp.img
Version: v0.0.9
File: mediatek/mt8192/scp.img
Version: v2.0.20536
File: mediatek/mt8195/scp.img
Version: v2.0.21961
```

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: btmtk - MediaTek Bluetooth Driver

```
File: mediatek/mt7622pr2h.bin
Version: 20180621204904
File: mediatek/mt7668pr2h.bin
Version: 20180517181834
# Note: explicitly commented out, since it's duplicated further down
# File: mediatek/mt7663pr2h.bin
# Version: 7663e2ccn04-2006030247
```

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

```
File: rockchip/dptx.bin
Version: 3.1
```

Licence: Redistributable. See LICENCE.rockchip for details.

Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

```
File: mediatek/mt7610u.bin
```

File: mediatek/mt7610e.bin

Version: 2.6

File: mediatek/mt7650e.bin

Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mediatek/mt7662.bin

Version: 1.9

Link: mt7662.bin -> mediatek/mt7662.bin

File: mediatek/mt7662_rom_patch.bin

Version: 0.0.2_P69

Link: mt7662_rom_patch.bin -> mediatek/mt7662_rom_patch.bin

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Driver: mt76x2u - MediaTek MT76x2u Wireless MACs

File: mediatek/mt7662u.bin

Version: 1.5

File: mediatek/mt7662u_rom_patch.bin

Version: 0.0.2_P48

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7615e - MediaTek MT7615e Wireless MACs

File: mediatek/mt7615_n9.bin

Version: 20200814

File: mediatek/mt7615_cr4.bin

Version: 20190114

File: mediatek/mt7615_rom_patch.bin

Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7622 - MediaTek MT7622 Wireless MACs

File: mediatek/mt7622_n9.bin

Version: 20200630

File: mediatek/mt7622_rom_patch.bin

Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7663 - MediaTek MT7663 Wireless MACs

File: mediatek/mt7663pr2h.bin

Version: 7663e2ccn04-2006030247

File: mediatek/mt7663_n9_v3.bin

Version: v3.1.1

File: mediatek/mt7663pr2h_rebb.bin

Version: 7663e2-1802-19091404338b809

File: mediatek/mt7663_n9_rebb.bin

Version: 7663mp1827-20190914043434

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7915e - MediaTek Wireless MACs for MT7915/MT7916/MT7986/MT7981

File: mediatek/mt7915_wm.bin

Version: 20220929104145

File: mediatek/mt7915_wa.bin

Version: 20220929104205

File: mediatek/mt7915_rom_patch.bin

Version: 20220929104113a

File: mediatek/mt7915_eeprom.bin

Version: 20200821

File: mediatek/mt7915_eeprom_dbdc.bin

Version: 20200821

File: mediatek/mt7916_wm.bin

Version: 20230202145005

File: mediatek/mt7916_wa.bin

Version: 20230202143332

File: mediatek/mt7916_rom_patch.bin

Version: 20230202144915a

File: mediatek/mt7916_eeprom.bin

Version: 20211130

File: mediatek/mt7986_wm.bin

Version: 20221012174725

File: mediatek/mt7986_wm_mt7975.bin

Version: 20221012174805
File: mediatek/mt7986_wa.bin
Version: 20221012174937
File: mediatek/mt7986_rom_patch.bin
Version: 20221012174648a
File: mediatek/mt7986_rom_patch_mt7975.bin
Version: 20221012174743a
File: mediatek/mt7986_wo_0.bin
Version: 20221012175005
File: mediatek/mt7986_wo_1.bin
Version: 20221012175032
File: mediatek/mt7986_eeprom_mt7976.bin
Version: 20211105
File: mediatek/mt7986_eeprom_mt7976_dbdc.bin
Version: 20220223
File: mediatek/mt7986_eeprom_mt7976_dual.bin
Version: 20211115
File: mediatek/mt7986_eeprom_mt7975_dual.bin
Version: 20220208

File: mediatek/mt7981_wm.bin
Version: 20221208201806
File: mediatek/mt7981_wa.bin
Version: 20221208202048
File: mediatek/mt7981_rom_patch.bin
Version: 20221208201745a
File: mediatek/mt7981_wo.bin
Version: 20221208202138

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7921 - MediaTek MT7921 Wireless MACs

File: mediatek/WIFI_MT7961_patch_mcu_1_2_hdr.bin
Version: 20231109190918a
File: mediatek/WIFI_RAM_CODE_MT7961_1.bin
Version: 20231109190959

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7921 - MediaTek MT7921 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin
Version: 20231109191416

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7922 - MediaTek MT7922 Wireless MACs

File: mediatek/WIFI_MT7922_patch_mcu_1_1_hdr.bin

Version: 20231120183400a

File: mediatek/WIFI_RAM_CODE_MT7922_1.bin

Version: 20231120183441

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7922 - MediaTek MT7922 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7922_1_1_hdr.bin

Version: 20231120183620

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7988 - MediaTek MT7988 Internal 2.5G Ethernet Phy

File: mediatek/mt7988/i2p5ge-phy-pmb.bin

Version: 20230728

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: nfp - Netronome Flow Processor

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

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

Link: netronome/nic_AMDA0099-0001_2x10.nffw -> nic/nic_AMDA0099-0001_2x10.nffw

Link: netronome/nic_AMDA0081-0001_4x10.nffw -> nic/nic_AMDA0081-0001_4x10.nffw

Link: netronome/nic_AMDA0097-0001_4x10_1x40.nffw ->

nic/nic_AMDA0097-0001_4x10_1x40.nffw

Link: netronome/nic_AMDA0099-0001_1x10_1x25.nffw ->

nic/nic_AMDA0099-0001_1x10_1x25.nffw

Link: netronome/nic_AMDA0099-0001_2x25.nffw -> nic/nic_AMDA0099-0001_2x25.nffw

Link: netronome/nic_AMDA0096-0001_2x10.nffw -> nic/nic_AMDA0096-0001_2x10.nffw

Link: netronome/nic_AMDA0097-0001_8x10.nffw -> nic/nic_AMDA0097-0001_8x10.nffw

Link: netronome/nic_AMDA0058-0011_2x40.nffw -> nic/nic_AMDA0058-0011_2x40.nffw

Link: netronome/nic_AMDA0058-0012_2x40.nffw -> nic/nic_AMDA0058-0012_2x40.nffw

Link: netronome/nic_AMDA0078-0011_1x100.nffw -> nic/nic_AMDA0078-0011_1x100.nffw

File: netronome/nic/nic_AMDA0081-0001_1x40.nffw

File: netronome/nic/nic_AMDA0097-0001_2x40.nffw

File: netronome/nic/nic_AMDA0099-0001_2x10.nffw

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

Version: v2.1.16.1

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

Link: netronome/flower/nic_AMDAA0078-0012_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_8x10.nffw -> nic_AMDAA0058.nffw

Version: AOTC-2.14.A.6

File: netronome/bpf/nic_AMDAA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDAA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDAA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDAA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDAA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDAA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDAA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDAA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDAA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDAA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDAA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDAA0078-0011_1x100.nffw

Version: v2.0.6.124

Licence: Redistributable. See LICENCE.Netronome for details

Driver: wil6210 - Qualcomm Atheros support for llad family of chips

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

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mbn
Link: qcom/venus-1.8/venus.mdt -> venus.mbn

Version: 1.8-00109

File: qcom/venus-4.2/venus.mbn
Link: qcom/venus-4.2/venus.mdt -> venus.mbn

Version: 4.2

File: qcom/venus-5.2/venus.mbn

Link: qcom/venus-5.2/venus.mdt -> venus.mbn

Version: 5.2-00023

File: qcom/venus-5.4/venus.mbn

Link: qcom/venus-5.4/venus.mdt -> venus.mbn

Version: 5.4-00053

File: qcom/venus-6.0/venus.mbn

Version: VIDEO.VE.6.0-00049-PROD-1

File: qcom/vpu-1.0/venus.mbn

Link: qcom/vpu-1.0/venus.mdt -> venus.mbn

Version: VIDEO.VPU.1.0-00087-PROD-1

File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00049-PROD-1

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Binary files supplied originally from

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

Driver: imx-sdma - support for i.MX SDMA driver

File: imx/sdma/sdma-imx6q.bin

Version: 3.3

File: imx/sdma/sdma-imx7d.bin

Version: 4.2

Licence: Redistributable. See LICENSE.sdma_firmware for details

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300_pfp.fw

Link: a300_pfp.fw -> qcom/a300_pfp.fw

File: qcom/a300_pm4.fw

Link: a300_pm4.fw -> qcom/a300_pm4.fw

File: qcom/a330_pfp.fw

File: qcom/a330_pm4.fw

File: qcom/a420_pfp.fw

File: qcom/a420_pm4.fw

File: qcom/a530_pfp.fw
File: qcom/a530_pm4.fw
File: qcom/a530v3_gpmu.fw2
File: qcom/apq8096/a530_zap.mbn
Link: qcom/a530_zap.mdt -> apq8096/a530_zap.mbn
File: qcom/a630_gmu.bin
File: qcom/a630_sqe.fw
File: qcom/sdm845/a630_zap.mbn
File: qcom/a650_gmu.bin
File: qcom/a650_sqe.fw
File: qcom/sm8250/a650_zap.mbn
File: qcom/a660_gmu.bin
File: qcom/a660_sqe.fw
File: qcom/a702_sqe.fw
File: qcom/leia_pfp_470.fw
File: qcom/leia_pm4_470.fw
File: qcom/sc8280xp/LENOVO/21BX/qcdxkmsuc8280.mbn

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

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/yamato_pfp.fw
File: qcom/yamato_pm4.fw

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Binary files generated from header files in EfikaMX kernel sources. A prefix of four zero bytes was prepended to make them work with the DRM MSM driver. See
<https://github.com/genesi/linux-legacy/tree/master/drivers/mxc/amd-gpu>

Driver: qcom_q6v5_pas - Qualcomm remoteproc firmware

File: qcom/apq8016/mba.mbn
File: qcom/apq8016/modem.mbn
File: qcom/apq8016/wcnss.mbn
File: qcom/apq8016/WCNSS_qcom_wlan_nv_sbc.bin
File: qcom/apq8096/adsp.mbn
RawFile: qcom/apq8096/adspr.jsn
RawFile: qcom/apq8096/adspua.jsn
File: qcom/apq8096/mba.mbn
File: qcom/apq8096/modem.mbn
RawFile: qcom/apq8096/modemr.jsn

```
File: qcom/qcm2290/a702_zap.mbn
File: qcom/qcm2290/adsp.mbn
RawFile: qcom/qcm2290/adspr.jsn
RawFile: qcom/qcm2290/adsp.s.jsn
RawFile: qcom/qcm2290/adspua.jsn
File: qcom/qcm2290/modem.mbn
RawFile: qcom/qcm2290/modemr.jsn
RawFile: qcom/qcm2290/modemuw.jsn
File: qcom/qcm2290/wlanmdsp.mbn
File: qcom/qrb4210/a610_zap.mbn
File: qcom/qrb4210/adsp.mbn
RawFile: qcom/qrb4210/adspr.jsn
RawFile: qcom/qrb4210/adsp.s.jsn
RawFile: qcom/qrb4210/adspua.jsn
File: qcom/qrb4210/cdsp.mbn
RawFile: qcom/qrb4210/cdspr.jsn
File: qcom/qrb4210/modem.mbn
RawFile: qcom/qrb4210/modemr.jsn
RawFile: qcom/qrb4210/modemuw.jsn
Link: qcom/qrb4210/wlanmdsp.mbn -> ../qcm2290/wlanmdsp.mbn
File: qcom/sdm845/adsp.mbn
RawFile: qcom/sdm845/adspr.jsn
RawFile: qcom/sdm845/adspua.jsn
File: qcom/sdm845/cdsp.mbn
RawFile: qcom/sdm845/cdspr.jsn
File: qcom/sdm845/Thundercomm/db845c/slpi.mbn
RawFile: qcom/sdm845/Thundercomm/db845c/slpir.jsn
RawFile: qcom/sdm845/Thundercomm/db845c/slpius.jsn
File: qcom/sm8250/adsp.mbn
RawFile: qcom/sm8250/adspr.jsn
RawFile: qcom/sm8250/adspua.jsn
File: qcom/sm8250/cdsp.mbn
RawFile: qcom/sm8250/cdspr.jsn
File: qcom/sm8250/Thundercomm/RB5/slpi.mbn
RawFile: qcom/sm8250/Thundercomm/RB5/slpir.jsn
RawFile: qcom/sm8250/Thundercomm/RB5/slpius.jsn
RawFile: qcom/sc8280xp/LENOVO/21BX/adspr.jsn
RawFile: qcom/sc8280xp/LENOVO/21BX/adspua.jsn
RawFile: qcom/sc8280xp/LENOVO/21BX/battmgr.jsn
RawFile: qcom/sc8280xp/LENOVO/21BX/cdspr.jsn
File: qcom/sc8280xp/LENOVO/21BX/qcadsp8280.mbn
File: qcom/sc8280xp/LENOVO/21BX/qccdsp8280.mbn
File: qcom/sc8280xp/LENOVO/21BX/qcslpi8280.mbn
```

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Binary files supplied originally from
<http://releases.linaro.org/96boards/dragonboard410c/qualcomm/firmware/linux-board-support-package-r1036.1.zip>
<http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/>

```
RB3_firmware_20221121000000-v5.zip
https://releases.linaro.org/96boards/rb1/qualcomm/firmware/
RB1_firmware_20230823-v2.zip
https://releases.linaro.org/96boards/rb2/qualcomm/firmware/
RB2_firmware_20230823-v2.zip
http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-
v4.zip
```

```
adsp.mbn has been converted from 20-adsp_split/firmware/adsp.* using
https://github.com/andersson/pil-squasher
```

```
cdsp.mbn has been converted from 21-cdsp_split/firmware/cdsp.* using
https://github.com/andersson/pil-squasher
```

```
Driver: qcom_q6v5_mss - Qualcomm modem subsystem firmware
```

```
File: qcom/sdm845/mba.mbn
File: qcom/sdm845/modem_nm.mbn
RawFile: qcom/sdm845/modemuw.jsn
Link: qcom/sdm845/modem.mbn -> modem_nm.mbn
```

```
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```

```
Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/
RB3_firmware_20221121000000-v5.zip
```

```
modem.mbn has been converted from 28-modem/modem.* using
https://github.com/andersson/pil-squasher
```

```
Driver: mlxsw_spectrum - Mellanox Spectrum switch
```

```
File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
File: mellanox/mlxsw_spectrum-13.1910.622.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1122.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1886.mfa2
File: mellanox/mlxsw_spectrum-13.2000.2308.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2308.mfa2
File: mellanox/mlxsw_spectrum-13.2000.2714.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2714.mfa2
File: mellanox/mlxsw_spectrum-13.2007.1168.mfa2
File: mellanox/mlxsw_spectrum2-29.2007.1168.mfa2
```

File: mellanox/mlxsw_spectrum3-30.2007.1168.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1036.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1036.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1036.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1310.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1310.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1310.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1312.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1312.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1312.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2018.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2018.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2018.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2304.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2304.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2304.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2406.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2406.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2406.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2438.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2438.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2438.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2946.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2946.mfa2
File: mellanox/mlxsw_spectrum-13.2008.3326.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.3326.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.3326.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1006.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1006.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1006.mfa2
File: mellanox/lc_ini_bundle_2010_1006.bin
File: mellanox/mlxsw_spectrum-13.2010.1232.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1232.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1232.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1406.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1406.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1406.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1502.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1502.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1502.mfa2
File: mellanox/lc_ini_bundle_2010_1502.bin
File: mellanox/mlxsw_spectrum-13.2010.3020.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.3020.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.3020.mfa2
File: mellanox/lc_ini_bundle_2010_3020.bin
File: mellanox/mlxsw_spectrum-13.2010.3146.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.3146.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.3146.mfa2
File: mellanox/lc_ini_bundle_2010_3146.bin

File: mellanox/mlxsw_spectrum-13.2012.1012.mfa2
File: mellanox/mlxsw_spectrum2-29.2012.1012.mfa2
File: mellanox/mlxsw_spectrum3-30.2012.1012.mfa2
File: mellanox/mlxsw_spectrum4-34.2012.1012.mfa2

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Driver: cdns-mhdp - Cadence MHDP8546 DP bridge

File: cadence/mhdp8546.bin
Version: 2.1.0

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

File: dpaa2/mc/mc_10.10.0_ls1088a.itb

File: dpaa2/mc/mc_10.10.0_ls2088a.itb
File: dpaa2/mc/mc_10.10.0_lx2160a.itb
File: dpaa2/mc/mc_10.14.3_ls1088a.itb
File: dpaa2/mc/mc_10.14.3_ls2088a.itb
File: dpaa2/mc/mc_10.14.3_lx2160a.itb
File: dpaa2/mc/mc_10.16.2_ls1088a.itb
File: dpaa2/mc/mc_10.16.2_ls2088a.itb
File: dpaa2/mc/mc_10.16.2_lx2160a.itb
File: dpaa2/mc/mc_10.18.0_ls1088a.itb
File: dpaa2/mc/mc_10.18.0_ls2088a.itb
File: dpaa2/mc/mc_10.18.0_lx2160a.itb
File: dpaa2/mc/mc_10.28.1_ls1088a.itb
File: dpaa2/mc/mc_10.28.1_ls2088a.itb
File: dpaa2/mc/mc_10.28.1_lx2160a.itb

Licence: Redistributable. See LICENSE.nxp_mc_firmware for details

Driver: msc-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin
File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

Licence: Redistributable. See LICENSE.microchip for details

Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a_h264.bin
File: meson/vdec/g12a_hevc_mmu.bin
File: meson/vdec/g12a_vp9.bin
File: meson/vdec/gxbb_h264.bin
File: meson/vdec/gxl_h263.bin
File: meson/vdec/gxl_h264.bin
File: meson/vdec/gxl_hevc.bin
File: meson/vdec/gxl_hevc_mmu.bin
File: meson/vdec/gxl_mjpeg.bin
File: meson/vdec/gxl_mpeg12.bin
File: meson/vdec/gxl_mpeg4_5.bin
File: meson/vdec/gxl_vp9.bin
File: meson/vdec/gxm_h264.bin
File: meson/vdec/sml_hevc_mmu.bin
File: meson/vdec/sml_vp9_mmu.bin

Licence: Redistributable. See LICENSE.amlogic_vdec for details.

Driver: ice - Intel(R) Ethernet Connection E800 Series

File: intel/ice/ddp/ice-1.3.35.0.pkg

Link: intel/ice/ddp/ice.pkg -> ice-1.3.35.0.pkg

File: intel/ice/ddp-lag/ice_lag-1.3.1.0.pkg

License: Redistributable. See LICENSE.ice for details

File: intel/ice/ddp-comms/ice_comms-1.3.45.0.pkg

File: intel/ice/ddp-wireless_edge/ice_wireless_edge-1.3.13.0.pkg

License: Redistributable. See LICENSE.ice_enhanced for details

Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197_minifw/ipue.bin

File: inside-secure/eip197_minifw/ifpp.bin

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Driver: presteria - Marvell driver for Presteria family ASIC devices

File: mrvl/presteria/mvsw_prestera_fw-v2.0.img

File: mrvl/presteria/mvsw_prestera_fw-v3.0.img

File: mrvl/presteria/mvsw_prestera_fw-v4.0.img

File: mrvl/presteria/mvsw_prestera_fw-v4.1.img

File: mrvl/presteria/mvsw_prestera_fw_arm64-v4.1.img

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: lt961luxc - Lontium DSI to HDMI bridge

File: lt961luxc_fw.bin

License: Redistributable. See LICENSE.Lontium for details.

Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: wfx/wfm_wf200_C0.sec
Version: 3.17

File: wfx/brd4001a.pds
File: wfx/brd8022a.pds
File: wfx/brd8023a.pds

Licence: Redistributable. See wfx/LICENCE.wf200 for details.

The firmware itself originates from <https://github.com/SiliconLabs/wfx-firmware>

The *.pds files come from <https://github.com/SiliconLabs/wfx-pds>

They have been processed with the tool "pds_compress" available on
<https://github.com/SiliconLabs/wfx-linux-tools>

Driver: wave5 - Chips&Media, Inc. video codec driver

File: cnm/wave521c_k3_codec_fw.bin

Licence: Redistributable. See LICENCE.cnm for details.

Driver: rvu_cptpf - Marvell CPT driver

File: mrvl/cpt01/ae.out
File: mrvl/cpt01/se.out
File: mrvl/cpt01/ie.out
File: mrvl/cpt02/ae.out
File: mrvl/cpt02/se.out
File: mrvl/cpt02/ie.out
File: mrvl/cpt03/ae.out
File: mrvl/cpt03/se.out
File: mrvl/cpt03/ie.out
File: mrvl/cpt04/ae.out
File: mrvl/cpt04/se.out
File: mrvl/cpt04/ie.out
Version: v1.21

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: amphion - Amphion VPU (Video Processing Unit) Codec IP driver

File: amphion/vpu/vpu_fw_imx8_dec.bin
Version: 1.8.8
File: amphion/vpu/vpu_fw_imx8_enc.bin
Version: 1.3.4

Licence: Redistributable. See LICENSE.amphion_vpu for details

Driver: cs35l41_hda - CS35l41 ALSA HDA audio driver

File: cirrus/cs35l41-dspl-spkr-prot.wmfw
File: cirrus/cs35l41-dspl-spkr-prot.bin
File: cirrus/cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-prot-103c8971.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-cali-103c8971.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-prot-103c8972.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-cali-103c8972.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-prot-103c8973.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-cali-103c8973.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-prot-103c8974.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-cali-103c8974.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-prot-103c8975.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-cali-103c8975.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-prot-103c896e.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-cali-103c896e.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-prot-103c89c3.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-cali-103c89c3.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-prot-103c8981.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-cali-103c8981.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-prot-103c898e.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35l41-dspl-spkr-cali-103c898e.wmfw ->
cs35l41/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw

Link: cirrus/cs35141-dspl-spkr-prot-103c898f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-103c898f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-103c8991.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-103c8991.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-103c8992.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-103c8992.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-103c8994.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-103c8994.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-103c8995.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-103c8995.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-103c89c6.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-103c89c6.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spkr-prot-103c8971.bin
File: cirrus/cs35141-dspl-spkr-cali-103c8971.bin
File: cirrus/cs35141-dspl-spkr-prot-103c8972.bin
File: cirrus/cs35141-dspl-spkr-cali-103c8972.bin
File: cirrus/cs35141-dspl-spkr-prot-103c8973.bin
File: cirrus/cs35141-dspl-spkr-cali-103c8973.bin
Link: cirrus/cs35141-dspl-spkr-prot-103c8974.bin ->
cs35141-dspl-spkr-prot-103c8972.bin
Link: cirrus/cs35141-dspl-spkr-cali-103c8974.bin ->
cs35141-dspl-spkr-cali-103c8972.bin
File: cirrus/cs35141-dspl-spkr-prot-103c8975-r0.bin
File: cirrus/cs35141-dspl-spkr-cali-103c8975-r0.bin
File: cirrus/cs35141-dspl-spkr-prot-103c8975-10.bin
File: cirrus/cs35141-dspl-spkr-cali-103c8975-10.bin
File: cirrus/cs35141-dspl-spkr-prot-103c896e-r0.bin
File: cirrus/cs35141-dspl-spkr-cali-103c896e-r0.bin
File: cirrus/cs35141-dspl-spkr-prot-103c896e-10.bin
File: cirrus/cs35141-dspl-spkr-cali-103c896e-10.bin
Link: cirrus/cs35141-dspl-spkr-prot-103c898e.bin ->
cs35141-dspl-spkr-prot-103c8971.bin
Link: cirrus/cs35141-dspl-spkr-cali-103c898e.bin ->
cs35141-dspl-spkr-cali-103c8971.bin
Link: cirrus/cs35141-dspl-spkr-prot-103c898f.bin ->
cs35141-dspl-spkr-prot-103c8971.bin
Link: cirrus/cs35141-dspl-spkr-cali-103c898f.bin ->
cs35141-dspl-spkr-cali-103c8971.bin

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Link: cirrus/cs35141-dsp1-spk-prot-103c8991.bin ->
cs35141-dsp1-spk-prot-103c8972.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8991.bin ->
cs35141-dsp1-spk-cali-103c8972.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8992.bin ->
cs35141-dsp1-spk-prot-103c8972.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8992.bin ->
cs35141-dsp1-spk-cali-103c8972.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8994.bin ->
cs35141-dsp1-spk-prot-103c8973.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8994.bin ->
cs35141-dsp1-spk-cali-103c8973.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c8995.bin ->
cs35141-dsp1-spk-prot-103c8973.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c8995.bin ->
cs35141-dsp1-spk-cali-103c8973.bin
File: cirrus/cs35141-dsp1-spk-prot-103c89c6-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-103c89c6-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-103c89c6-10.bin
File: cirrus/cs35141-dsp1-spk-cali-103c89c6-10.bin
File: cirrus/cs35141-dsp1-spk-prot-103c89c3-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-103c89c3-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-103c89c3-r1.bin
File: cirrus/cs35141-dsp1-spk-cali-103c89c3-r1.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c89c3-10.bin ->
cs35141-dsp1-spk-prot-103c89c3-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c89c3-10.bin ->
cs35141-dsp1-spk-cali-103c89c3-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-103c89c3-11.bin ->
cs35141-dsp1-spk-prot-103c89c3-r1.bin
Link: cirrus/cs35141-dsp1-spk-cali-103c89c3-11.bin ->
cs35141-dsp1-spk-cali-103c89c3-r1.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8981-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8981-r1.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8981-10.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8981-11.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8981-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8981-r1.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8981-10.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8981-11.bin
File: cirrus/cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c8c46.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c8c46.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c8c47.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c8c47.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c8c48.wmfw ->
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cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8c48.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8c49.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8c49.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8c70.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8c70.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8c71.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8c71.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8c72.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8c72.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
File: cirrus/cs35141-dspl-spk-prot-103c8c46.bin
File: cirrus/cs35141-dspl-spk-cali-103c8c46.bin
File: cirrus/cs35141-dspl-spk-prot-103c8c47.bin
File: cirrus/cs35141-dspl-spk-cali-103c8c47.bin
File: cirrus/cs35141-dspl-spk-prot-103c8c48.bin
File: cirrus/cs35141-dspl-spk-cali-103c8c48.bin
File: cirrus/cs35141-dspl-spk-prot-103c8c49.bin
File: cirrus/cs35141-dspl-spk-cali-103c8c49.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8c70.bin ->
cs35141-dspl-spk-prot-103c8c46.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8c70.bin ->
cs35141-dspl-spk-cali-103c8c46.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8c71.bin ->
cs35141-dspl-spk-prot-103c8c47.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8c71.bin ->
cs35141-dspl-spk-cali-103c8c47.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8c72.bin ->
cs35141-dspl-spk-prot-103c8c48.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8c72.bin ->
cs35141-dspl-spk-cali-103c8c48.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8ca4.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8ca4.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8ca7.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8ca7.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
File: cirrus/cs35141-dspl-spk-prot-103c8ca4.bin
File: cirrus/cs35141-dspl-spk-cali-103c8ca4.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8ca7.wmfw ->
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cs35141-dspl-spk-prot-103c8ca4.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8ca7.wmfw ->
cs35141-dspl-spk-cali-103c8ca4.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8ca7.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8ca7.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
File: cirrus/cs35141-dspl-spk-prot-103c8cf5-10.bin
File: cirrus/cs35141-dspl-spk-cali-103c8cf5-10.bin
File: cirrus/cs35141-dspl-spk-prot-103c8cf5-11.bin
File: cirrus/cs35141-dspl-spk-cali-103c8cf5-11.bin
File: cirrus/cs35141-dspl-spk-prot-103c8cf5-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c8cf5-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c8cf5-r1.bin
File: cirrus/cs35141-dspl-spk-cali-103c8cf5-r1.bin
File: cirrus/cs35141/v6.39.0/halo_cspl_RAM_revB2_29.41.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-17aa3847.wmfw ->
cs35141/v6.39.0/halo_cspl_RAM_revB2_29.41.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-17aa3847.wmfw ->
cs35141/v6.39.0/halo_cspl_RAM_revB2_29.41.0.wmfw
File: cirrus/cs35141-dspl-spk-prot-17aa3847-spkid0-10.bin
File: cirrus/cs35141-dspl-spk-prot-17aa3847-spkid0-r0.bin
File: cirrus/cs35141-dspl-spk-cali-17aa3847-spkid0.bin
File: cirrus/cs35141-dspl-spk-prot-17aa3847-spkid1-10.bin
File: cirrus/cs35141-dspl-spk-prot-17aa3847-spkid1-r0.bin
File: cirrus/cs35141-dspl-spk-cali-17aa3847-spkid1.bin
File: cirrus/cs35141/v6.47.0/halo_cspl_RAM_revB2_29.49.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-17aa3855.wmfw ->
cs35141/v6.47.0/halo_cspl_RAM_revB2_29.49.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-17aa3855.wmfw ->
cs35141/v6.47.0/halo_cspl_RAM_revB2_29.49.0.wmfw
File: cirrus/cs35141-dspl-spk-prot-17aa3855-spkid0-10.bin
File: cirrus/cs35141-dspl-spk-prot-17aa3855-spkid0-r0.bin
File: cirrus/cs35141-dspl-spk-cali-17aa3855-spkid0.bin
File: cirrus/cs35141-dspl-spk-prot-17aa3855-spkid1-10.bin
File: cirrus/cs35141-dspl-spk-prot-17aa3855-spkid1-r0.bin
File: cirrus/cs35141-dspl-spk-cali-17aa3855-spkid1.bin
Link: cirrus/cs35141-dspl-spk-prot-17aa22f1.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-17aa22f1.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-17aa22f2.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-17aa22f2.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-17aa22f3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-17aa22f3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-prot-17aa22f1-10.bin
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File: cirrus/cs35141-dsp1-spk-prot-17aa22f1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa22f2-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa22f2-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f2-10.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f2-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f3-10.bin ->
cs35141-dsp1-spk-prot-17aa22f2-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f3-r0.bin ->
cs35141-dsp1-spk-prot-17aa22f2-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f3-10.bin ->
cs35141-dsp1-spk-cali-17aa22f2-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f3-r0.bin ->
cs35141-dsp1-spk-cali-17aa22f2-r0.bin
File: cirrus/cs35141/v6.63.0/halo_cspl_RAM_revB2_29.65.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-104312af.wmfw ->
cs35141/v6.63.0/halo_cspl_RAM_revB2_29.65.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-104312af.wmfw ->
cs35141/v6.63.0/halo_cspl_RAM_revB2_29.65.0.wmfw
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431a8f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431a8f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431e02.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431e02.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki1-r0.bin

File: cirrus/cs35141-dsp1-spk-cali-10431e02-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431f12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431f12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-cali-10431f12-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431f12-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431f12-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431f12-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431f12-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431e12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431e12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e12-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e12-spkid1-r0.bin
File: cirrus/cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431573.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431573.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431463.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431463.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431483.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431483.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431663.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431663.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431473.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431473.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431493.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431493.wmfw ->

```
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-10431533.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-10431533.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-10431433.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-10431433.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-10431caf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-10431caf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-10431cef.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-10431cef.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-104314d3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-104314d3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-10431c9f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-10431c9f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-10431cdf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-10431cdf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-10431ccf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-10431ccf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-10431503.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-10431503.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-104314e3.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-104314e3.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-10431d1f.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-10431d1f.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spkr-prot-104317f3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spkr-cali-104317f3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spkr-prot-10431c9f-spkr-10.bin
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File: cirrus/cs35141-dsp1-spk-cali-10431c9f-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c9f-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c9f-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c9f-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c9f-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c9f-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c9f-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431483-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431483-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431483-r0.bin

File: cirrus/cs35141-dsp1-spk-cali-10431483-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431473-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431473-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431473-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431473-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431663-l0.bin ->
cs35141-dsp1-spk-prot-10431483-l0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431663-l0.bin ->
cs35141-dsp1-spk-cali-10431483-l0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431663-r0.bin ->

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cs35141-dsp1-spk-prot-10431483-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431663-r0.bin ->
cs35141-dsp1-spk-cali-10431483-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spki0-10.bin ->
cs35141-dsp1-spk-prot-10431c9f-spki0-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spki0-10.bin ->
cs35141-dsp1-spk-cali-10431c9f-spki0-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spki0-r0.bin ->
cs35141-dsp1-spk-prot-10431c9f-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spki0-r0.bin ->
cs35141-dsp1-spk-cali-10431c9f-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spki1-10.bin ->
cs35141-dsp1-spk-prot-10431c9f-spki1-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spki1-10.bin ->
cs35141-dsp1-spk-cali-10431c9f-spki1-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spki1-r0.bin ->
cs35141-dsp1-spk-prot-10431c9f-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spki1-r0.bin ->
cs35141-dsp1-spk-cali-10431c9f-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spki0-10.bin ->
cs35141-dsp1-spk-prot-10431ccf-spki0-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spki0-10.bin ->
cs35141-dsp1-spk-cali-10431ccf-spki0-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spki0-r0.bin ->
cs35141-dsp1-spk-prot-10431ccf-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spki0-r0.bin ->
cs35141-dsp1-spk-cali-10431ccf-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spki1-10.bin ->
cs35141-dsp1-spk-prot-10431ccf-spki1-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spki1-10.bin ->
cs35141-dsp1-spk-cali-10431ccf-spki1-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spki1-r0.bin ->
cs35141-dsp1-spk-prot-10431ccf-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spki1-r0.bin ->
cs35141-dsp1-spk-cali-10431ccf-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spki0-10.bin ->
cs35141-dsp1-spk-prot-10431503-spki0-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spki0-10.bin ->
cs35141-dsp1-spk-cali-10431503-spki0-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spki0-r0.bin ->
cs35141-dsp1-spk-prot-10431503-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spki0-r0.bin ->
cs35141-dsp1-spk-cali-10431503-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spki1-10.bin ->
cs35141-dsp1-spk-prot-10431503-spki1-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spki1-10.bin ->
cs35141-dsp1-spk-cali-10431503-spki1-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spki1-r0.bin ->
cs35141-dsp1-spk-prot-10431503-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spki1-r0.bin ->
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cs35141-dsp1-spki-cali-10431503-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-prot-10431d1f-spki0-10.bin ->
cs35141-dsp1-spki-prot-10431503-spki0-10.bin
Link: cirrus/cs35141-dsp1-spki-cali-10431d1f-spki0-10.bin ->
cs35141-dsp1-spki-cali-10431503-spki0-10.bin
Link: cirrus/cs35141-dsp1-spki-prot-10431d1f-spki0-r0.bin ->
cs35141-dsp1-spki-prot-10431503-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-cali-10431d1f-spki0-r0.bin ->
cs35141-dsp1-spki-cali-10431503-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-prot-10431d1f-spki1-10.bin ->
cs35141-dsp1-spki-prot-10431503-spki1-10.bin
Link: cirrus/cs35141-dsp1-spki-cali-10431d1f-spki1-10.bin ->
cs35141-dsp1-spki-cali-10431503-spki1-10.bin
Link: cirrus/cs35141-dsp1-spki-prot-10431d1f-spki1-r0.bin ->
cs35141-dsp1-spki-prot-10431503-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spki-cali-10431d1f-spki1-r0.bin ->
cs35141-dsp1-spki-cali-10431503-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spki-prot-10431b93.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-cali-10431b93.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-prot-10431a20.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-cali-10431a20.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-prot-10431a30.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-cali-10431a30.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-prot-10431a40.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-cali-10431a40.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-prot-10431a50.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-cali-10431a50.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-prot-10431a60.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dsp1-spki-cali-10431a60.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
File: cirrus/cs35141-dsp1-spki-prot-10431b93-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10431b93-spki0-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10431b93-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10431b93-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10431b93-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10431b93-spki0-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10431b93-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10431b93-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a20-spki0-10.bin ->
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cs35141-dsp1-spki-prot-10431b93-spki0-10.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a20-spki0-r0.bin ->
cs35141-dsp1-spki-prot-10431b93-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a20-spki1-10.bin ->
cs35141-dsp1-spki-prot-10431b93-spki1-10.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a20-spki1-r0.bin ->
cs35141-dsp1-spki-prot-10431b93-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a20-spki0-10.bin ->
cs35141-dsp1-spki-cali-10431b93-spki0-10.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a20-spki0-r0.bin ->
cs35141-dsp1-spki-cali-10431b93-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a20-spki1-10.bin ->
cs35141-dsp1-spki-cali-10431b93-spki1-10.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a20-spki1-r0.bin ->
cs35141-dsp1-spki-cali-10431b93-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a30-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a30-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a30-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a30-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a30-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a30-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a30-spki0-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a30-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a40-spki0-10.bin ->
cs35141-dsp1-spki-prot-10433a30-spki0-10.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a40-spki0-r0.bin ->
cs35141-dsp1-spki-prot-10433a30-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a40-spki1-10.bin ->
cs35141-dsp1-spki-prot-10433a30-spki1-10.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a40-spki1-r0.bin ->
cs35141-dsp1-spki-prot-10433a30-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a40-spki0-10.bin ->
cs35141-dsp1-spki-cali-10433a30-spki0-10.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a40-spki0-r0.bin ->
cs35141-dsp1-spki-cali-10433a30-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a40-spki1-10.bin ->
cs35141-dsp1-spki-cali-10433a30-spki1-10.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a40-spki1-r0.bin ->
cs35141-dsp1-spki-cali-10433a30-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki0-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki0-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a60-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a60-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a60-spki1-r0.bin
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File: cirrus/cs35141-dsp1-spk-cali-10433a60-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10433a60-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10433a60-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10433a60-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10433a60-spkid0-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431c33.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431c33.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431c03.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431c03.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431a63.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431a63.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431c43.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431c43.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
File: cirrus/cs35141-dsp1-spk-prot-10431c03-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c03-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c03-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c03-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c03-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c03-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c03-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c03-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a63-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a63-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a63-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a63-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a63-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a63-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a63-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a63-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c33-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c33-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c33-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c33-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c33-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c33-spkid1-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c33-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c33-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c43-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c43-spkid0-l0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c43-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c43-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c43-spkid1-l0.bin

File: cirrus/cs35141-dsp1-spk-cali-10431c43-spkiid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c43-spkiid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c43-spkiid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2316.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa2316.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa2317.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa2317.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-17aa2316-spkiid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa2316-spkiid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa2316-spkiid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa2316-spkiid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa2316-spkiid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa2316-spkiid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa2316-spkiid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa2316-spkiid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2317-spkiid0-10.bin ->
cs35141-dsp1-spk-prot-17aa2316-spkiid0-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2317-spkiid0-r0.bin ->
cs35141-dsp1-spk-prot-17aa2316-spkiid0-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2317-spkiid1-10.bin ->
cs35141-dsp1-spk-prot-17aa2316-spkiid1-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2317-spkiid1-r0.bin ->
cs35141-dsp1-spk-prot-17aa2316-spkiid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa2317-spkiid0-10.bin ->
cs35141-dsp1-spk-cali-17aa2316-spkiid0-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa2317-spkiid0-r0.bin ->
cs35141-dsp1-spk-cali-17aa2316-spkiid0-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa2317-spkiid1-10.bin ->
cs35141-dsp1-spk-cali-17aa2316-spkiid1-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa2317-spkiid1-r0.bin ->
cs35141-dsp1-spk-cali-17aa2316-spkiid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2318.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa2318.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa2319.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa2319.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa231a.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa231a.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa2318-10.bin ->
cs35141-dsp1-spk-prot-17aa22f1-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2318-r0.bin ->

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cs35141-dspl-spk-prot-17aa22f1-r0.bin
Link: cirrus/cs35141-dspl-spk-cali-17aa2318-10.bin ->
cs35141-dspl-spk-cali-17aa22f1-10.bin
Link: cirrus/cs35141-dspl-spk-cali-17aa2318-r0.bin ->
cs35141-dspl-spk-cali-17aa22f1-r0.bin
Link: cirrus/cs35141-dspl-spk-prot-17aa2319-10.bin ->
cs35141-dspl-spk-prot-17aa22f2-10.bin
Link: cirrus/cs35141-dspl-spk-prot-17aa2319-r0.bin ->
cs35141-dspl-spk-prot-17aa22f2-r0.bin
Link: cirrus/cs35141-dspl-spk-cali-17aa2319-10.bin ->
cs35141-dspl-spk-cali-17aa22f2-10.bin
Link: cirrus/cs35141-dspl-spk-cali-17aa2319-r0.bin ->
cs35141-dspl-spk-cali-17aa22f2-r0.bin
Link: cirrus/cs35141-dspl-spk-prot-17aa231a-10.bin ->
cs35141-dspl-spk-prot-17aa22f2-10.bin
Link: cirrus/cs35141-dspl-spk-prot-17aa231a-r0.bin ->
cs35141-dspl-spk-prot-17aa22f2-r0.bin
Link: cirrus/cs35141-dspl-spk-cali-17aa231a-10.bin ->
cs35141-dspl-spk-cali-17aa22f2-10.bin
Link: cirrus/cs35141-dspl-spk-cali-17aa231a-r0.bin ->
cs35141-dspl-spk-cali-17aa22f2-r0.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8c26.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8c26.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b42.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b42.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b43.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b43.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b44.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b44.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b45.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b45.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b46.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b46.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b47.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b47.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b63.wmf ->
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cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b63.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b70.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b70.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b72.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b72.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b74.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b74.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b77.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b77.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b8f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b92.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-prot-103c8b42.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b42.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b43.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b43.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b44.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b44.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b45.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b46.bin ->
cs35141-dspl-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b46.bin ->
cs35141-dspl-spk-cali-103c8b45.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b47.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b47.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b63-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b63-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b63-r1.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b63-r1.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b63-10.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b63-10.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b63-11.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b63-11.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b70.bin ->
cs35141-dspl-spk-prot-103c8b42.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b70.bin ->
cs35141-dspl-spk-cali-103c8b42.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b72.bin ->
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cs35141-dspl-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b72.bin ->
cs35141-dspl-spk-cali-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b74.bin ->
cs35141-dspl-spk-prot-103c8b47.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b74.bin ->
cs35141-dspl-spk-cali-103c8b47.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b77.bin ->
cs35141-dspl-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b77.bin ->
cs35141-dspl-spk-cali-103c8b45.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b8f-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b8f-r1.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b8f-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b8f-r1.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b8f-10.bin ->
cs35141-dspl-spk-prot-103c8b8f-r0.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b8f-11.bin ->
cs35141-dspl-spk-prot-103c8b8f-r1.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b8f-10.bin ->
cs35141-dspl-spk-cali-103c8b8f-r0.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b8f-11.bin ->
cs35141-dspl-spk-cali-103c8b8f-r1.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b92.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b92.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8c26.bin ->
cs35141-dspl-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8c26.bin ->
cs35141-dspl-spk-cali-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cbd.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cbd.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cbe.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cbe.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cbf.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cbf.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cc1.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cc1.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cc2.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cc2.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cc3.wmf ->
```

```
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10280cc3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10280cc4.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10280cc4.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-prot-10280cbd-spkid0.bin
File: cirrus/cs35141-dspl-spk-cali-10280cbd-spkid0.bin
File: cirrus/cs35141-dspl-spk-prot-10280cbd-spkid1.bin
File: cirrus/cs35141-dspl-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cbe-spkid0.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cbe-spkid0.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cbe-spkid1.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cbe-spkid1.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cbf-spkid0.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cbf-spkid0.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cbf-spkid1.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cbf-spkid1.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cc1-spkid0.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cc1-spkid0.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cc1-spkid1.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cc1-spkid1.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cc2-spkid0.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cc2-spkid0.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cc2-spkid1.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cc2-spkid1.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cc3-spkid0.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cc3-spkid0.bin ->
cs35141-dspl-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cc3-spkid1.bin ->
cs35141-dspl-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dspl-spk-cali-10280cc3-spkid1.bin ->
```

```
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc4-spkid0.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc4-spkid0.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc4-spkid1.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc4-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
```

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Driver: mtk-sof - MediaTek Sound Open Firmware driver

```
File: mediatek/sof/sof-mt8186.ri
File: mediatek/sof/sof-mt8186.ldc
File: mediatek/sof-tplg/sof-mt8186.tplg
Version: v0.2.1
```

```
File: mediatek/sof/sof-mt8195.ri
File: mediatek/sof/sof-mt8195.ldc
File: mediatek/sof-tplg/sof-mt8195-mt6359-rt1019-rt5682.tplg
File: mediatek/sof-tplg/sof-mt8195-mt6359-rt1019-rt5682-dts.tplg
Version: v0.4.1
```

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Driver: nxp-srlxx - NXP Ultra Wide Band driver

```
File: nxp/sr150_fw.bin
Version: 44.00.02
```

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Originates from <https://github.com/NXP/uwb-NXPUWB-FW.git>

Driver: btnxpuart - NXP BT UART driver

```
File: nxp/uartuart8997_bt_v4.bin
File: nxp/uartiw416_bt_v0.bin
File: nxp/helper_uart_3000000.bin
```

Version: 16.92.21.p81

File: nxp/uartuart8987_bt.bin
Version: 16.92.21.p76.5

File: nxp/uartuart9098_bt_v1.bin
Version: 17.92.1.p136.24

File: nxp/uartspi_n61x_v1.bin.se
Version: 18.99.1.p154.40

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Originates from https://github.com/nxp-imx/imx-firmware/tree/lf-6.1.22_2.0.0/nxp

Driver: qcom-sc8280xp - Qualcomm ASoC tplg Firmware
File: qcom/sc8280xp/LENOVO/21BX/audioreach-tplg.bin
Link: qcom/sc8280xp/SC8280XP-LENOVO-X13S-tplg.bin -> LENOVO/21BX/audioreach-tplg.bin
Version: v0.1.0

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Originates from
<https://git.linaro.org/people/srinivas.kandagatla/audioreach-topology.git>

Driver: amlogic - Amlogic SoC Firmware
File: amlogic/bluetooth/w2_bt_fw_uart.bin
Version: date = 38.01, number = 0xa914

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Driver: powervr - Imagination Technologies PowerVR graphics driver

File: powervr/rogue_33.15.11.3_v1.fw
Version: 1.0.OS@6503725

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

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

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m4-1.4.19: examples/COPYING
=====
```

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```
=====
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openssh-keys-1.0: MIT
qtkeytesttool-1.77: MIT
rs-sysctl-1.0: MIT
setup-storage-systemd-tmpfiles-1.0: MIT
=====
```

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=====
mesa-22.0.3: docs/license.rst
=====
```

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```
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.. _OpenGL ES: https://www.khronos.org/opengles/
.. _Vulkan: https://www.vulkan.org/
.. _OpenCL: https://www.khronos.org/opencl/
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```
-----
```

Component	Location	License
Main Mesa code	src/mesa/	MIT
Gallium code	src/gallium/	MIT
Ext headers	include/GL/glxext.h, include/GL/glxext.h	Khronos
GLX client code	src/glx/	SGI Free Software License B
C11 thread emulation	include/c11/threads*.h	Boost (permissive)

```
-----
```

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

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 *
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 * those modifications are Copyright (c) 2016 SanDisk Corp.
 *
 * (This code is based on btrfs-progs/btrfs.c.)
 */
```

```
=====  
mpfr-4.1.1: COPYING.LESSER  
=====
```

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Version 3, 29 June 2007

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```

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netbase-6.3: debian/copyright
=====

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=====
nettle-3.7.3: serpent-decrypt.c, 14-36
nettle-3.7.3: serpent-set-key.c, 14-36
=====

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=====
nspr-4.29: configure.in, 3-6
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nspr-4.29: Makefile.in, 4-38
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```

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

include $(MOD_DEPTH)/config/autoconf.mk

DIRS = config pr lib

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

DIST_GARBAGE = config.cache config.log config.status

all:: config.status export

include $(topsrcdir)/config/rules.mk

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

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```

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```

[Tatu continues]

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[The licence continues]

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```
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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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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.

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Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the

"copyright" line and a pointer to where the full notice is found.

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

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 1, or (at your option)
any later version.
```

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

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

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

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

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

=====

perl-5.34.3: Artistic

=====

The "Artistic License"

Preamble

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The End

```
=====
pixman-0.40.0: COPYING
=====
```

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```

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*/

=====
pixman-0.40.0: pixman/pixman-matrix.c, 1-21
=====

/*
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```

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*/

```
=====
pixman-0.40.0: pixman/pixman-arm-neon-asm.h, 1-24
=====
```

/*

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*

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

*/

```
=====
polkit-0.119: COPYING
=====
```

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Version 2, June 1991

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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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```
=====
polkit-0.119: src/polkit/polkit.h, 1-20
=====
```

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 *
 * Author: David Zeuthen <davidz@redhat.com>
 */
```

```
=====
popt-1.18: COPYING
=====
```

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```
=====
pugixml-1.12: readme.txt, 29-52
=====
```

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```
=====
```


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=====

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=====

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

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 */
```

```
=====
pulseaudio-15.0: src/pulsecore/resampler.h, 4-21
```

```
=====
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***/

=====
pulseaudio-15.0: src/modules/reserve.h, 6-28
=====

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=====
```

```
pulseaudio-15.0: src/pulsecore/rtkit.h, 6-29
```

```
=====
```

```
/**
```

```
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```

```
*/
```

```
=====
```

```
pulseaudio-15.0: src/modules/echo-cancel/adrian-aec.h, 3-12
```

```
=====
```

```
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* Author: Andre Adrian
*
* Acoustic Echo Cancellation Leaky NLMS-pw algorithm
*
* Version 0.3 filter created with www.dsptutor.freeuk.com
* Version 0.3.1 Allow change of stability parameter delta
* Version 0.4 Leaky Normalized LMS - pre whitening algorithm
*/
```

```
=====
```

```
pulseaudio-15.0: src/pulsecore/filter/biquad.h, 1-4
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```
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```

*/

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=====
python3-3.10.13: LICENSE
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

Footnotes:

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- (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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NOW, THEREFORE, THE PARTIES HEREBY AGREE AS FOLLOWS:

1. DEFINITIONS

"Affiliate" of a Party shall mean an entity

- (i) which is directly or indirectly controlling such Party;
- (ii) which is under the same direct or indirect ownership or control as such Party; or
- (iii) which is directly or indirectly owned or controlled by such Party.

For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

"Add-on Products" shall mean The Qt Company's specific add-on software products which are not licensed as part of The Qt Company's standard product offering, but shall be included into the scope of Licensed Software only if so specifically agreed between the Parties.

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"Customer(s)" shall mean Licensee's customers to whom Licensee, directly or indirectly, distributes copies of the Redistributables as integrated or incorporated into Applications or Devices.

"Data Protection Legislation" shall mean the General Data Protection Regulation (EU 2016/679) (GDPR) and any national implementing laws, regulations and secondary legislation, as may be amended or updated from time to time, as well as any other data protection laws or regulations applicable in relevant territory.

"Deployment Platforms" shall mean target operating systems and/or hardware specified in the License Certificate, on which the Redistributables can be distributed pursuant to the terms and conditions of this Agreement.

"Designated User(s)" shall mean the employee(s) of Licensee or Licensee's Affiliates acting within the scope of their employment or Licensee's Contractors acting within the scope of their services on behalf of Licensee.

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"Devices" shall mean

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 - i. are manufactured and/or distributed by the Licensee, its Affiliates, Contractors or Customers, and
 - ii. incorporate, integrate or link to Applications such that substantial functionality of such unit, when used by an End User, is provided by Application(s) or otherwise depends on the Licensed Software, regardless of whether the Application is developed by Licensee or its Contractors; or
- (2) Applications designed for the hardware devices specified in item (1).

Devices covered by this Agreement shall be specified in Appendix 2 or in a quote.

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"Distribution License Packs" shall mean set of prepaid Distribution Licenses for distribution of Redistributables, as defined in The Qt Company's standard price list, quote, Purchase Order confirmation or in an Appendix 2 hereto, as the case may be.

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"Licensee" shall mean the individual or legal entity that is party to this Agreement.

"Licensee's Records" shall mean books and records that contain information bearing on Licensee's compliance with this Agreement, Licensee's use of Open Source Qt and/or the payments due to The Qt Company under this Agreement, including, but not limited to user information, assembly logs, sales records and distribution records.

"Modified Software" shall have the meaning as set forth in Section 2.3.

"Online Services" shall mean any services or access to systems made available by The Qt Company to the Licensee over the Internet relating to the Licensed Software or for the purpose of use by the Licensee of the Licensed Software or Support. Use of any such Online Services is discretionary for the Licensee and some of them may be subject to additional fees.

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"Party" or "Parties" shall mean Licensee and/or The Qt Company.

"Permitted Software" shall mean (i) third party open source software products that are generally available for public in source code form and free of any charge under any of the licenses approved by Open Source Initiative as listed on <https://opensource.org/licenses>, which may include parts of Open Source Qt or be developed using Open Source Qt; and (ii) software The Qt Company has made available via its Qt Marketplace online distribution channel.

"Pre-Release Code" shall have the meaning as set forth in Section 4.

"Prohibited Combination" shall mean any effort to use, combine, incorporate, link or integrate Licensed Software with any software created with or incorporating Open Source Qt, or use Licensed Software for creation of any such software.

"Purchase Order" shall have the meaning as set forth in Section 10.2.

"QA Tools" shall mean software libraries and tools as defined in Appendix 1 depending on which product(s) the Licensee has purchased under the Agreement.

"Qt Software" shall mean the software libraries and tools of The Qt Company, which The Qt Company makes available under commercial and/or open source licenses.

"Redistributables" shall mean the portions of the Licensed Software set forth in Appendix 1 that may be distributed pursuant to the terms of this Agreement in object code form only, including any relevant documentation. Where relevant, any reference to Licensed Software in this Agreement shall include and refer also to Redistributables.

"Renewal Term" shall mean an extension of previous Development License Term as agreed between the Parties.

"Submitted Modified Software" shall have the meaning as set forth in Section 2.3.

"Support" shall mean standard developer support that is provided by The Qt Company to assist Designated Users in using the Licensed Software in accordance with this Agreement and the Support Terms.

"Support Terms" shall mean The Qt Company's standard support terms specified in Appendix 9 hereto.

"Taxes" shall have the meaning set forth in Section 10.5.

"The Qt Company" shall mean:

- (i) in the event Licensee is an individual residing in the United States or a legal entity incorporated in the United States or having its

headquarters in the United States, The Qt Company Inc., a Delaware corporation with its office at 3031 Tisch Way, 110 Plaza West, San Jose, CA 95128, USA.; or

- (ii) in the event the Licensee is an individual residing outside of the United States or a legal entity incorporated outside of the United States or having its registered office outside of the United States, The Qt Company Ltd., a Finnish company with its registered office at Miestentie 7, 02150 Espoo, Finland.

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"Updates" shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version number. The Qt Company shall make Updates available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

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- (x) Licensee shall cause all of its Affiliates, Contractors and Customers entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);
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EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY BY LICENSEE DURING THE DEVELOPMENT LICENSE TERM DURING WHICH THE EVENT RESULTING IN SUCH LIABILITY OCCURRED.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

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Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the agreed Development License Term or other agreed fixed time period. Support is provided according to agreed support level and subject to applicable requirements and restrictions, as specified in the Support Terms.

Unless otherwise decided by The Qt Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

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9. CONFIDENTIALITY

Each Party acknowledges that during the Agreement Term each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information

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Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

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The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due and which have not been disputed by the Licensee in good faith.

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11.1. Licensee's Record-keeping

Licensee shall at all times during the Agreement Term and for a period of two (2) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, , and (iii) any other information pertaining to Licensee's compliance with the terms of this Agreement (like e.g. information on products and/or projects relating to use of Distribution Licenses), as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least thirty (30) days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any possible in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities and shall be limited in scope to verify Licensee's compliance with the terms of this Agreement. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee shall pay to The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10

% of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force until terminated pursuant to the terms of this Section 12 ("Agreement Term").

12.2. Termination for breach and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within ten (10) business days following The Qt Company's written notice thereof.

12.3. Termination for insolvency

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software under this Agreement. For clarity, a Development License of a Designated User or a QA Tools License, and all rights relating thereto, shall always terminate at the expiry of the respective Development License Term, even if the Agreement continues to remain in force.

Upon such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same by Licensee's duly authorized officer to The Qt Company upon its

request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Except when this Agreement is terminated by The Qt Company due to Licensee's material breach as set forth in Section 12.2, the Licensee may continue distribution of Applications and Devices under the terms of this Agreement despite the termination of this Agreement. In such event the terms hereof will continue to be applicable and govern any such distribution of Applications and Devices beyond the expiry or termination of this Agreement. In case of termination by The Qt Company due to Licensee's material breach, Licensee must cease any distribution of Applications and Devices at the date of termination of this Agreement.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee pay to The Qt Company all such fees within 30 days from the effective date of termination of this Agreement.

Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension of Rights under Special Circumstances

In the event of The Qt Company choosing not to renew the Development License(s) or QA Tools Licenses, as set forth in Section 3.1 and 3.5 respectively, and where such decision of non-renewal is not due to any ongoing breach or alleged breach (as reasonably determined by The Qt Company) by Licensee of the terms of this Agreement or any applicable license terms of Open Source Qt, then all valid and affected Development Licenses and QA Tools licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2.

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) or QA Tools Licenses, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid Development Licenses and QA Tools Licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

For clarity, in case of an extension under this Section 12.5, any such extension shall not apply to The Qt Company's Support obligations, but Support shall be provided only up until the end of the respective fixed Development License Term regardless of the extension of relevant Development License or QA Tools License, unless otherwise agreed between the Parties.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of International Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement

This Agreement, the Appendices hereto, the License Certificate and any applicable quote and Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.

14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure

Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action, as to be ordered by the relevant dispute resolution body.

14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data will be primarily collected from the relevant

individuals but may be collected also from Licensee (e.g. in the course of Licensee's reporting obligations). The Parties acknowledge that as The Qt Company determines the purpose and means for such collection and processing of the applicable personal data, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy and security policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

14.13. Marketing Rights

Parties have agreed upon Marketing Rights pursuant to Appendix 7, if any.

APPENDICES

The Agreement includes following Appendices 1-10, as applicable.

- Appendix 1: Licensed Software details
- Appendix 2: Pricing
- Appendix 3: Add-on Software details (optional)
- Appendix 4: Small business and startup Licenses (optional)
- Appendix 5: Non-commercial and educational Licenses (optional)
- Appendix 6: License Reporting (optional)
- Appendix 7: Marketing Rights (optional)
- Appendix 8: Intentionally left blank (optional)
- Appendix 9: Support Terms
- Appendix 10: Conversion from legacy Licenses to Subscription (optional)

APPENDIX 1: LICENSED SOFTWARE

The modules and/or tools that are included in the latest publicly available version of the respective product at the effective date of this Agreement- Qt for Application Development Professional (ADP), Qt for Application Development Enterprise (ADE), Qt for Device Creation Professional (DCP), Qt for Device Creation Enterprise (DCE), - are marked with "X" in the below table. The modules and tools are specific to each product version respectively and may vary from version to version. Modules and tools included in the latest publicly available version of the respective product at any given time are listed in Appendix 1 of the latest version of this Agreement available at www.qt.io/terms-conditions/. If a new version of Licensed Software does not include a module or tool present in an older version which Licensee is entitled

to use under a valid license from The Qt Company, then Licensee will continue to have such right during the Term of this Agreement. In the event a new version of the Licensed Software adds modules or tools to any previous version(s), Licensee's rights will extend to cover also such additional modules and tools.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with "R" in the below table.

Modules / Tools	ADP	ADE	DCP	DCE
Active Qt	X,R	X,R	X,R	X,R
Qt 3D	X,R	X,R	X,R	X,R
Qt 5 Core Compatibility APIs	X,R	X,R	X,R	X,R
Qt Android Extras	X,R	X,R	X,R	X,R
Qt Bluetooth	X,R	X,R	X,R	X,R
Qt Canvas 3D	X,R	X,R	X,R	X,R
Qt Charts	X,R	X,R	X,R	X,R
Qt Concurrent	X,R	X,R	X,R	X,R
Qt Core	X,R	X,R	X,R	X,R
Qt Data Visualization	X,R	X,R	X,R	X,R
Qt D-Bus	X,R	X,R	X,R	X,R
Qt for Python	X,R	X,R	X,R	X,R
Qt for WebAssembly	X,R	X,R	X,R	X,R
Qt Gamepad	X,R	X,R	X,R	X,R
Qt Graphical Effects	X,R	X,R	X,R	X,R
Qt GUI	X,R	X,R	X,R	X,R
Qt Help	X,R	X,R	X,R	X,R
Qt Image Formats	X,R	X,R	X,R	X,R
Qt Location	X,R	X,R	X,R	X,R

Qt Lottie Animation	X,R X,R X,R X,R
+-----+	
Qt Mac Extras	X,R X,R X,R X,R
+-----+	
Qt Multimedia	X,R X,R X,R X,R
+-----+	
Qt Multimedia Widgets	X,R X,R X,R X,R
+-----+	
Qt Network	X,R X,R X,R X,R
+-----+	
Qt Network Authorization	X,R X,R X,R X,R
+-----+	
Qt NFC	X,R X,R X,R X,R
+-----+	
Qt OpenGL	X,R X,R X,R X,R
+-----+	
Qt PDF	X,R X,R X,R X,R
+-----+	
Qt Platform Headers	X,R X,R X,R X,R
+-----+	
Qt Positioning	X,R X,R X,R X,R
+-----+	
Qt Print Support	X,R X,R X,R X,R
+-----+	
Qt Purchasing	X,R X,R X,R X,R
+-----+	
Qt QML	X,R X,R X,R X,R
+-----+	
Qt Quick	X,R X,R X,R X,R
+-----+	
Qt Quick 3D	X,R X,R X,R X,R
+-----+	
Qt Quick Controls 1	X,R X,R X,R X,R
+-----+	
Qt Quick Controls	X,R X,R X,R X,R
+-----+	
Qt Quick Dialogs	X,R X,R X,R X,R
+-----+	
Qt Quick Extras	X,R X,R X,R X,R
+-----+	
Qt Quick Layouts	X,R X,R X,R X,R
+-----+	
Qt Quick Test	X,R X,R X,R X,R
+-----+	
Qt Quick Timeline	X,R X,R X,R X,R
+-----+	
Qt Quick WebGL	X,R X,R X,R X,R
+-----+	
Qt Quick Widgets	X,R X,R X,R X,R
+-----+	

Qt Remote Objects	X,R X,R X,R X,R
+-----+	
Qt Script	X,R X,R X,R X,R
+-----+	
Qt Script Tools	X,R X,R X,R X,R
+-----+	
Qt SCXML	X,R X,R X,R X,R
+-----+	
Qt Sensors	X,R X,R X,R X,R
+-----+	
Qt Serial Bus	X,R X,R X,R X,R
+-----+	
Qt Serial Port	X,R X,R X,R X,R
+-----+	
Qt Shader Tools	X,R X,R X,R X,R
+-----+	
Qt Speech	X,R X,R X,R X,R
+-----+	
Qt State Machine	X,R X,R X,R X,R
+-----+	
Qt SQL	X,R X,R X,R X,R
+-----+	
Qt SVG	X,R X,R X,R X,R
+-----+	
Qt Test	X,R X,R X,R X,R
+-----+	
Qt UI Tools	X,R X,R X,R X,R
+-----+	
Qt Virtual Keyboard	X,R X,R X,R X,R
+-----+	
Qt Wayland Compositor	X,R X,R X,R X,R
+-----+	
Qt WebChannel	X,R X,R X,R X,R
+-----+	
Qt WebEngine	X,R X,R X,R X,R
+-----+	
Qt WebSockets	X,R X,R X,R X,R
+-----+	
Qt WebView	X,R X,R X,R X,R
+-----+	
Qt Widgets	X,R X,R X,R X,R
+-----+	
Qt Windows Extras	X,R X,R X,R X,R
+-----+	
Qt X11 Extras	X,R X,R X,R X,R
+-----+	
Qt XML	X,R X,R X,R X,R
+-----+	
Qt XML Patterns	X,R X,R X,R X,R
+-----+	

Qt Designer (Qt Widget Designer)	X,R	X,R	X,R	X,R	
+-----+					
Qt Linguist	X,R	X,R	X,R	X,R	
+-----+					
Qt Assistant	X,R	X,R	X,R	X,R	
+-----+					
lupdate	X,R	X,R	X,R	X,R	
+-----+					
lrelease	X,R	X,R	X,R	X,R	
+-----+					
lconvert	X,R	X,R	X,R	X,R	
+-----+					
Qt MQTT		X,R	X,R	X,R	
+-----+					
Qt KNX		X,R	X,R	X,R	
+-----+					
Qt OPC UA		X,R	X,R	X,R	
+-----+					
Qt CoAP		X,R	X,R	X,R	
+-----+					
Boot 2 Qt stacks			X,R	X,R	
+-----+					
Qt OTA			X,R	X,R	
+-----+					
Device Utilities			X,R	X,R	
+-----+					
Qt Debugging Bridge (QBD) Daemon			X,R	X,R	
+-----+					
Qt Quick Ultralite Controls			X,R	X,R	
+-----+					
Qt Quick Ultralite			X,R	X,R	
+-----+					
Qt Safe Renderer (QSR)				X,R	
+-----+					
Qt Application Manager				X,R	
+-----+					
Qt Interface Framework				X,R	
+-----+					
Neptune Reference UI				X,R	
+-----+					
Qt for Android Automotive (QAA)				X,R	
+-----+					
Qt Creator	X	X	X	X	
+-----+					
Qt Design Studio Professional	X	X	X	X	
+-----+					
androiddeployqt	X	X	X	X	
+-----+					
androidtestrunner	X	X	X	X	
+-----+					

canbusutil	X	X	X	X	
+-----+					
dumpcpp	X	X	X	X	
+-----+					
dumpdoc	X	X	X	X	
+-----+					
fixqt4headers.pl	X	X	X	X	
+-----+					
idc	X	X	X	X	
+-----+					
moc	X	X	X	X	
+-----+					
pixeltool	X	X	X	X	
+-----+					
qdbus	X	X	X	X	
+-----+					
qdbuscpp2xml	X	X	X	X	
+-----+					
qdbusviwer	X	X	X	X	
+-----+					
qdbusxml2cpp	X	X	X	X	
+-----+					
qdistancefieldgenerator	X	X	X	X	
+-----+					
qdoc	X	X	X	X	
+-----+					
qhelpgenerator	X	X	X	X	
+-----+					
qlalr	X	X	X	X	
+-----+					
qmake	X	X	X	X	
+-----+					
qml	X	X	X	X	
+-----+					
qmlcachegen	X	X	X	X	
+-----+					
qmldom	X	X	X	X	
+-----+					
qmleasing	X	X	X	X	
+-----+					
qmlformat	X	X	X	X	
+-----+					
qmllint	X	X	X	X	
+-----+					
qmlpreview	X	X	X	X	
+-----+					
qmlprofiler	X	X	X	X	
+-----+					
qmlscene	X	X	X	X	
+-----+					

qmltestrunner		X		X		X		X	
+-----+									
qmltime		X		X		X		X	
+-----+									
qmlviewer		X		X		X		X	
+-----+									
qtdiag		X		X		X		X	
+-----+									
qtpaths		X		X		X		X	
+-----+									
qtplugininfo		X		X		X		X	
+-----+									
qvkgen		X		X		X		X	
+-----+									
rcc		X		X		X		X	
+-----+									
tracegen		X		X		X		X	
+-----+									
uic		X		X		X		X	
+-----+									
windeployqt		X		X		X		X	
+-----+									
Target toolchains						X		X	
+-----+									
Qt Debugging Bridge Host Tools						X		X	
+-----+									
qtconfig-gui						X		X	
+-----+									
Qt Emulator						X		X	
+-----+									
Qt Creator VxWorks plugin						X		X	
+-----+									
Qt Creator plugin for Qt								X	
Application Manager									
+-----+									
qmlinterfacegenerator								X	
+-----+									
qmltoccpp								X	
+-----+									
qulfontcompiler								X	
+-----+									
Qt Deployment Server								X	
+-----+									

Rights for Application and Device use cases

Following table summarizes the rights afforded by different products of the Licensed Software to create and distribute Applications and Devices as defined in this Agreement (X marks for rights):

	Applications	Devices
ADP	X	
ADE	X	
DCP	X	X
DCE	X	X

Licensed Software: Designer tools and modules

The modules and/or tools that are included in the respective product - Qt for Design Studio Professional (DSP), Qt for Design Studio Enterprise (DSE) - are marked with "X" in the below table.

Designer tools provides no Redistributables.

	DSP	DSE
Qt Design Studio	X	X
Qt Design Bridges		X
QML Live on host	X	X
QML Live on target		X
Variant Management		X
Shader creation tools		X
Profiling tools		X
Simulink support		X

Both DSP and DSE can be used to create an user interface for use cases covered by ADP, ADE, DCP and DCE.

Licensed Software: QA Tools

The modules and/or tools that are included in the respective QA Tools product - Squish (both Tester and execution Licenses), Coco or Test Center - are marked with "X" in the below table. Optional features that will need additional

licenses are marked with "O". QA Tools include no Redistributables.

	Squish	Coco	Test Center
Squish IDE	X		
QA Tool-specific command line tools	X	X	X
Coverage Browser		X	
HTML interface			X
Qt Support Module	X		
Java support module	X		
Windows support module	X		
iOS support module	X		
Android support module	X		
Web support module	X		
macOS support module	X		
VNC support module	X		
MCU support module	X		
C and C++ language module		X	
C# language module		X	
QML language module		X	
Tester Cross-Compilation Add-On	O	O	

License capabilities for Squish

License capabilities that are included in the Squish Tester and Execution Licenses are marked with "X" in the below table.

	Squish Tester License	Squish Execution License
Ability to create, edit, and debug test cases	X	

Ability to execute test cases	X	X
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Install and use capabilities for QA Tools

Install and use capabilities that are included in the respective QA Tools products are defined in the below table.

	Squish	Squish	Coco	Test
	Tester	Execution	License	Center
	License	License		License
Number of installation instances per license	Unlimited	Unlimited	Unlimited	One(1)
Number of concurrent users	Limited by number of Squish Tester Licenses	Limited by number of Squish Execution Licenses	Limited by number of Coco Tester Licenses	Limited by number of Test Center Licenses

APPENDIX 2: PRICING

Separate template

APPENDIX 3: ADD-ON PRODUCTS TO LICENSED SOFTWARE

Intentionally left blank.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

Start-up Companies are qualified for a discounted License Fee for maximum of four (4) Development Licenses ("Start-up Development License") unless otherwise agreed between the parties.

Start-up Development License entitles the respective Designated User for Support only for Install Support as defined in Appendix 9, Support Terms.

Upon expiry of the respective Development License Term, the Start-up Development Licenses shall be automatically extended, pursuant to Section 3.1

of the Agreement, for a Renewal Term either as new Start-up Development Licenses (if the Licensee still qualifies as a Start-up Company), or as normal then standard list price Development Licenses (if the Licensee no longer qualifies as a Start-up Company).

APPENDIX 5: NON-COMMERCIAL AND EDUCATIONAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Agreement Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

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For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 3.5, 3.6, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

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V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Agreement Term, unless and until terminated pursuant to the terms of Section 12.

Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred."

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

APPENDIX 6: LICENSE REPORTING

Separate template

APPENDIX 7: MARKETING RIGHTS

This Appendix 7 has the purpose to grant visibility through The Qt Company marketing channels of the usage of Qt and related product and service in Licensee product. Following related marketing right are agreed between the Qt Company and the Licensee.

1. LICENSEE NAME AND LICENSEE LOGO

The Qt Company has the right to use Licensee name and Licensee logo in public channel, in respect of the value proposition that the Qt company provided to the Licensee.

2. MARKETING CONTENT COOPERATION

2.1. LICENSEE CASES

The Licensee is open to collaborate on content creation for marketing and communication purpose. The Licensee will nominate one responsible that will be in charge to support The Qt company with this content creation, according to content format paragraph, answering technical questions or sharing professional picture or video of required content. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

2.2. FINAL PRODUCT REFERRAL

Licensee agree that The Qt Company could connect their software product and services with the Licensee device or application, that the Licensee has created using The Qt Company technology and competence. Licensee will provide high quality picture, and video of the created final product where the Qt technology is running into. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

3. CONTENT FORMAT

- Video
- Written Licensee case
- Press release
- Social media posts
- Emails
- Event booth Graphics
- Printed material

4. CHANNELS

- Social media
- The Qt Company resource center and website
- Email to the Qt company contact database
- Events
- Online webinars
- Public speech
- Public presentations

APPENDIX 8: INTENTIONALLY LEFT BLANK

APPENDIX 9: SUPPORT TERMS

These Qt support terms and conditions ("Support Terms") set forth the legal framework, where under The Qt Company ("The Qt Company") provides support services (as herein defined) to the Licensee.

1 DEFINITIONS

"Application Code" shall mean a computer software program written strictly

using the Qt programming language, by or for the Licensee, with a user interface, enabling the Licensee or their users to accomplish a specific task and display any results of the task on the display monitor or screen.

"Dedicated Contact" shall mean the employee of The Qt Company who will be the first point of contact for all Designated Users' requests for Support.

"Errors" shall mean an error, flaw, mistake, failure, or fault in Licensed Software that prevents it from behaving as described in the relevant documentation or as agreed between the Parties.

"Extended Support" shall mean a continuation to the normal Support period, which allows Designated Users to receive selected Support (Standard Support or Premium Support) for a version of Licensed Software that is no longer generally supported by The Qt Company.

"Install Support" shall mean Support that is limited to installation related Error(s) on Development Platforms specified as supported host platforms for each Qt release under doc.qt.io.

"Maintenance Release" shall mean a release or version of Licensed Software containing bug fixes, error corrections and other changes targeted to maintaining and improving product stability and quality. Maintenance Releases are generally depicted as a change to the third digit of Licensed Software version number.

"Platforms" shall mean both Development Platforms and Deployment Platforms. Supported host and target Platforms may vary from for each Qt release as defined under doc.qt.io.

"Premium Support" shall mean an upgraded level of Support that The Qt Company provides pursuant to these Support Terms to Licensee if Licensee has purchased Premium Support instead of Standard Support. Premium Support shall always be purchased for all Designated User(s) in the respective development team of the Licensee.

"Response Time" shall mean the period of time from when Licensee notifies TheQt Company about an Error or requests Support until The Qt Company provides Licensee with a response that addresses (but not necessarily resolves) the reported Error or provides the requested Support.

"Standard Support" shall mean standard level of Support that The Qt Company provides pursuant to these Support Terms to Licensee.

"Support" shall mean developer assistance that is provided by The Qt Company to assist eligible Designated Users in Licensed Software installation, usage and functionality problem resolution for Error(s) and Error workarounds pursuant to the terms of these Support Terms. Support for different products is available as specified in the below table ("X" marking the Support that is included in the license price, optional Add-on Support services are marked as

"O") :

	ADP	ADE	DCP	DCE	DSP	DSE	Squish	Coco	Test Center
Install Support	X	X	X	X	X	X	X	X	X
Standard Support		X	X	X	X	X	X	X	X
Premium Support		O	O	O	O	O	O	O	O
Extended Support		O	O	O	O	O			
Tool Qualification Kit							O	O	

"Support Validity Term" shall mean the Development License Term or any other fixed time period agreed between the Parties during which time the Customer is eligible to receive Support from The Qt Company.

"Tool Qualification Kit" shall mean a customized set of documents and validation test cases.

2 SUPPORT SERVICES

2.1 Support Services Provided by The Qt Company

Subject to these Support Terms and during the Support Validity Term, The Qt Company will via its web-based support user-interface, provide Designated User(s) with Support for the Platforms which Customer has licensed under the Agreement.

The Qt Company will make commercially reasonable efforts to solve any Errors reported by Designated User(s). Resolution of an Error may be provided through Designated User(s) themselves downloading of a later released version of the applicable Licensed Software product(s) or providing the Designated User with a temporary workaround addressing such Error.

2.2 Licensee's Obligations

To report an Error, the Designated User shall register the Error on The Qt Company's web-based support user interface located at:
<https://account.qt.io/login> or at another location designated by The Qt Company.

The Designated User must provide adequate information and documentation to The Qt Company to enable it to recreate the Error or problem for which the Designated User has sought assistance.

To ensure efficient handling of Errors, the Designated User must provide the following information, where relevant:

- A clear, detailed description of the problem, question or suggestion;
- Identification of which Licensed Software product and version is affected;

- Identification of the operating environment (e.g. operating system, hardware Platform, build tools, etc.) on which the problem exists;
- On Standard Support: A complete and compilable test case of not more than 500 lines of code that demonstrates the problem;
- On Premium Support: A complete and compilable test case that demonstrates the problem or access to Application Code source codes.

Additional relevant content, such as screenshots, etc.

Additional content should be included as attachments. The preferred image formats are JPEG and PNG. Compressed content should be included in zip or tar.gz archives. Executable content and documents in platform specific formats such as Microsoft Office' are not accepted.

In order for The Qt Company to provide prompt handling of Errors, the Designated User shall promptly respond to any requests from The Qt Company for additional information.

2.3 Support Limitations

General limitations:

Each version or release of the Licensed Software will be Supported under Standard Support or Premium Support only for limited time period as set forth in doc.qt.io. For example, regular releases of Qt Software are supported for one (1) year from the release date of the version x.y.0 and Long Term Support (LTS) Releases are supported for a period of three (3) years from the release date of the LTS version x.y.0.

The Qt Company shall only provide Support for Designated User(s).

Support is made available for the entire development teams only: It is not allowed to purchase Support only for some members of the development team, and all Designated Users of the respective development team must be eligible for the same level of Support.

Support is not provided for snapshots, preview releases, beta releases or release candidates.

The Qt Company shall have no obligation to provide Support for hardware or operating system specific problems or problems arising from improper use, accident, neglect or modification of Qt.

Limitations with Install Support:

Support limited to Error(s) regarding installation and setting up of the Qt development environment on host Platforms.

Limitations with Standard Support:

The Qt Company shall not provide Support for third-party software or problems

caused by third-party software even if such third-party software is distributed together with Licensed Software product(s).

The Qt Company shall only provide Support for Error(s) that are reported on and can be reproduced on Platforms that are officially supported for the release of the Licensed Software.

Limitations with Premium support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software. However, if such third-party software is distributed together with Licensed Software, The Qt Company will make commercially reasonable efforts to solve such problems.

The Qt Company shall only provide Support for Error(s) that can be reproduced on Platforms that are officially supported for the release of the Licensed Software. If the Error is on a Platform that is not supported, The Qt Company will make commercially reasonable efforts to provide a solution on closest corresponding supported Platform.

Premium Support is optional and purchased for an agreed bucket of hours ("Bucket"). Hours can be used by any Designated User in the respective development team. To encourage continuous usage of the Support, ten percent (10%) of the purchased Bucket shall automatically expire (regardless of whether such support hours are actually used or not by the Licensee) each month after three (3) months from the purchase of the Premium Support.

2.4 Extended Support

Extended Support extends the Support Validity Term for a release of Licensed Software that is no longer generally supported.

Extended Support includes and is by default provided with Standard Support rules and limitations, unless Extended Support is purchased with Premium Support in which case Premium Support rules and limitations will apply.

Extended Support is optional and purchased with annual fee and separately per each Licensee product. Extended Support will need definition of (i) Licensee product, (ii) used Platform(s) and (iii) Licensed Software version(s).

2.5 Tool Qualification Kit

The Qt Company shall provide set of customized documents and validation tests that enable Licensee to qualify QA testing tool for the purpose of ISO 26262, EN 50128, DO-330, IEC 61508, IEC 62304 or IEC 13485 certification Licensee end to end solution.

3 RESPONSE TIME

In performing Support, The Qt Company shall commit to following, non-binding,

Response Times:

Standard Support: Errors and Support requests will have a Response Time not to exceed two (2) business days.

Premium Support: Errors and Support requests will have a Response Time not to exceed one (1) business day.

For complex issues, The Qt Company may provide an initial response to the Designated User and then follow up, without undue delay, with additional communication before an Error is properly addressed or Support provided.

4 ADDITIONAL SERVICES IN PREMIUM SUPPORT

The Designated User(s) will be assigned a Dedicated Contact to handle requests for Support. Dedicated Contact is subject to change in cases such as sick leave, vacation and other similar reasons.

The Designated User(s) can on request ask The Qt Company to access their computer remotely in order to resolve problems directly.

The Designated User(s) can request a session via Instant Messaging or phone call in the support request to The Qt Company.

Premium Support can assist Licensee in implementing new features, bug fixes and accessing patches in Licensed Software or Application Code.

All Support requests will be handled with high priority.

5 MAINTENANCE RELEASES, UPDATES AND UPGRADES

Under the Support the Customer is eligible for Maintenance Releases and Updates that The Qt Company generally makes available to customers who has purchased Support. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be provided under the Support.

The primary focus of Maintenance Releases is product quality. Therefore, each Maintenance Release typically includes the following types of changes to the previous version of Licensed Software:

- Bug fixes caused by changes to previously working code;
- Fixes related to build issues on supported Platforms;
- Error corrections specific to a single Platform that are not present on other Platforms;
- Critical Error corrections such as crashes, data corruption, loss of data, race conditions; and
- Updates to documentation and license information when deemed necessary by The Qt Company.

The primary focus of Updates is introducing new features to Licensed Software and covering new platforms. Therefore, each Updates typically includes the

following types of changes to the previous version of Licensed Software:

- New platform support;
- New toolchain support;
- New features and Qt modules;

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APPENDIX 10: CONVERSION TO SUBSCRIPTION

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```
+-----+
| Existing Agreement(s)      | <Trolltech, Nokia, Digia, The Qt Company> and |
| signing parties, version  | <Licensee> <Version of the Agreement, e.g. 2,0,|
| and date of signatures   | 3.2 or 4.1> <Date of the agreement signatures> |
| thereof                   |                                     |
+-----+
```

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```
=====
qtlocation-5.15.13+git: src/3rdparty/mapbox-gl-native/LICENSE.md
=====
```

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```
=====
Mapbox GL uses portions of Android Gesture Detectors Framework.
```

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http://www.boost.org/LICENSE_1_0.txt

=====
Mapbox GL uses portions of Clipper.

Author : Angus Johnson
Version : 6.1.3a
Date : 22 January 2014
Website : <http://www.angusj.com>
Copyright : Angus Johnson 2010-2014

License:
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Attributions:
The code in this library is an extension of Bala Vatti's clipping algorithm:
"A generic solution to polygon clipping"

Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.
<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
ASME 2005 International Design Engineering Technical Conferences
and Computers and Information in Engineering Conference (IDETC/CIE2005)
September 24-28, 2005 , Long Beach, California, USA
<http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf>

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Mapbox GL uses portions of BugshotKit.

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Mapbox GL uses portions of CSS Color Parser.

(c) Dean McNamee <dean@gmail.com>, 2012.
C++ port by Konstantin Käfer <mail@kkaefer.com>, 2014.

<https://github.com/deanm/css-color-parser-js>
<https://github.com/kkaefer/css-color-parser-cpp>

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 Mapbox GL uses portions of GLFW.

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====

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

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=====

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TurboJPEG/LJT: this implements the TurboJPEG API using libjpeg or libjpeg-turbo

=====

Mapbox GL uses portions of libpng.

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```
=====
qtsvg-5.15.13+git: LICENSE.LGPLv21
=====
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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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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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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

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

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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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above

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Ty Coon, President of Vice
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```

```
=====
shadow-4.11.1: src/passwd.c, 2-30
=====
```

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*/
```

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

```
#ident "$Id$"
```

```
#include <errno.h>
```

```

#include <fcntl.h>
#include <getopt.h>
#include <pwd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <time.h>
#include "defines.h"
#include "getdef.h"
#include "nscd.h"
#include "sssd.h"
#include "prototypes.h"
#include "pwauth.h"
#include "pwio.h"
#include "shadowio.h"
#include "shadowlog.h"

```

```

=====
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=====

```

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=====
sqlite3-3.38.5: sqlite3.h, 1-11
=====
```

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=====
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```
=====
wayland-1.20.0: src/wayland-server.c, 1-24
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*/

```
=====
xcb-proto-1.14.1: src/dri2.xml, 2-28
=====
```

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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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*/
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```
=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
=====
```

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```
=====
xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====
```

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=====
xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30
=====
```

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```
=====
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24
=====
```

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*/
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```
=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
=====
```

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=====
xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24
=====

```

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```

=====
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27
=====

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```
=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
=====
```

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*/
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```
=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====
```

```
/*
```

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*/
```

```
=====
xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
=====
```

```
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```

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```
=====
xz-5.2.6: lib/getopt.c, 1-23
=====
```

```
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```

```
NOTE: getopt is now part of the C library, so if you don't know what
"Keep this file name-space clean" means, talk to drepper@gnu.org
before changing it!
```

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```

```
#ifndef _LIBC
```

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

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

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

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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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proprietary programs. If your program is a subroutine library, you may
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```
=====
acl-2.3.1: doc/COPYING.LGPL
=====
```

Most components of the "acl" package are licensed under
Version 2.1 of the GNU Lesser General Public License (see below).
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```
-----
```

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```
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```

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

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```

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

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```
=====
attr-2.5.1: tools/attr.c, 1-17
=====
```

```
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 *
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 */
```

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

```
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*/
```

```
=====
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libassuan-2.5.6: COPYING.LIB
libatasmart-0.19: LGPL
libdaemon-0.14: LICENSE
libgcc-11.4.0: COPYING.LIB
libgpg-error-1.44: COPYING.LIB
libnss-mdns-0.15.1: LICENSE
=====
```

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

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

That's all there is to it!

```
=====
avahi-0.8: avahi-common/address.h, 1-25
=====
```

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

```
/**
```

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

```
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USA.

```

```

***/

```

```

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

```

```

#include <inttypes.h>

```

```

=====
avahi-0.8: avahi-core/dns.h, 1-23
=====

```

```

#ifndef foodnshfoo
#define foodnshfoo

```

```

/****

```

```

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```

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USA.

```

```

***/

```

```

#include "rr.h"

```

```

=====
avahi-0.8: avahi-daemon/main.c, 1-21
=====

```

```

/****

```

```

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```

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USA.

```

```

***/

```

```

#ifdef HAVE_CONFIG_H
#include <config.h>

```

```

=====
avahi-0.8: avahi-client/client.h, 1-23
=====

```

```

#ifndef fooclienthfoo
#define fooclienthfoo

```

```

/***

```

```

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```

```

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```

```

***/

```

```

#include <inttypes.h>

```

```

=====
bash-5.1.16: COPYING

```

```

binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
bzip2-1.0.8: COPYING
dosfstools-4.2: COPYING
elfutils-0.186: COPYING
gawk-5.1.1: COPYING
gcc-runtime-11.4.0: COPYING3
gdb-11.2: COPYING3
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```

```
=====
```

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Version 3, 29 June 2007

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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.

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```
=====
binutils-2.38: COPYING
binutils-2.38: include/COPYING
gcc-runtime-11.4.0: COPYING
gdb-11.2: COPYING
libgcc-11.4.0: COPYING
libgpg-error-1.44: COPYING
```

ntfs-3g-ntfsprogs-2022.10.3: COPYING

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

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

```
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```

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

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

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

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

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

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

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

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

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```
=====
```

binutils-2.38: COPYING.LIB
gdb-11.2: COPYING.LIB

=====

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Version 2, June 1991

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

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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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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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Appendix: How to Apply These Terms to Your New Libraries

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

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

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version 2 of the License, or (at your option) any later version.
```

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Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
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```

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

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

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

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

That's all there is to it!

```
=====
binutils-2.38: COPYING3.LIB
gcc-runtime-11.4.0: COPYING3.LIB
gdb-11.2: COPYING3.LIB
```

gmp-6.2.1: COPYING.LESSERv3
libgcc-11.4.0: COPYING3.LIB
libunistring-1.0: COPYING.LIB
nettle-3.7.3: COPYING.LESSERv3

=====

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Version 3, 29 June 2007

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Corresponding Source for the Combined Work, excluding any source code
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```
=====
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```

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
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```
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boost-1.78.0: LICENSE_1_0.txt
=====
```

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=====
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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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=====
bzip2-1.0.8: LICENSE, 4-37
=====
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```
=====  
coreutils-9.0: src/ls.c, 1-15  
=====
```

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

```
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```

```
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```
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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```
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`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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```

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

That's all there is to it!

```
=====
e2fsprogs-1.46.5: lib/ext2fs/ext2fs.h, 1-9
=====
```

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

```
=====
e2fsprogs-1.46.5: lib/e2p/e2p.h, 1-7
=====
```

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



```

* %End-Header%

=====
e2fsprogs-1.46.5: lib/uuid/uuid.h.in, 1-32
=====

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

=====
e2fsprogs-1.46.5: lib/uuid/COPYING
util-linux-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
=====

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```
=====
e2fsprogs-1.46.5: lib/et/et_name.c, 1-11
=====
```

```
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 *
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```

```
=====
e2fsprogs-1.46.5: lib/ss/ss.h, 1-20
=====
```

```
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 *
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```

```

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

```

```

=====
elfutils-0.186: debuginfod/debuginfod-client.c, 1-27
=====

```

```

/* Retrieve ELF / DWARF / source files from the debuginfod.
   Copyright (C) 2019-2021 Red Hat, Inc.
   This file is part of elfutils.

```

```

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

```
/*  
 * fontconfig/src/fcftretype.c  
 *  
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 */
```

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```

*/

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

/*
 * This code implements the MD5 message-digest algorithm.
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 *
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */

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

/*****
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```

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/*****/

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=====  
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```
=====
glib-2.0-2.72.3: glib/glib.h, 4-17
glib-2.0-2.72.3: gmodule/gmodule.h, 4-17
=====
```

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=====
glibc-2.35: LICENSES
=====
```

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```
=====
gnutls-3.7.4: LICENSE
=====
```

```
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```
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```
=====
gpgme-1.17.1: src/gpgme.h.in, 1-23
=====
```

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

```
=====
gpgme-1.17.1: src/engine.h, 1-22
=====
```

```
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```

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# -----  
  
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   Database section 7.  
  
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```

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```
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iniparser-4.1+git: LICENSE
=====
```

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```
=====
iptables-1.8.7: iptables/iptables.c, 13-25
=====
```

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```
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json-c-0.15: COPYING
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```
=====
kernel-module-mali-r9p0-01rel10: linux/license/gpl/mali_kernel_license.h
=====
```

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 */

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

```

#ifndef __MALI_KERNEL_LICENSE_H__
#define __MALI_KERNEL_LICENSE_H__

#ifdef __cplusplus
extern "C" {
#endif

#define MALI_KERNEL_LINUX_LICENSE      "GPL"
#define MALI_LICENSE_IS_GPL 1

#ifdef __cplusplus
}
#endif

#endif /* __MALI_KERNEL_LICENSE_H__ */

=====
keyutils-1.6.1: LICENCE.GPL
=====

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

```
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```

```
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```

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```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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

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

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

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```
=====
kmod-29: tools/COPYING
libftdi-1.4: COPYING.GPL
systemd-250.5: LICENSE.GPL2
=====
```

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Version 3, 29 June 2007

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

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```
=====
libassuan-2.5.6: src/assuan.c, 1-20
=====

/* assuan.c - Global interface (not specific to context).
 * Copyright (C) 2009 Free Software Foundation, Inc.
```



```

* Copyright (C) 2001, 2002, 2012, 2013 g10 Code GmbH
*
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*/

```

```

=====
libassuan-2.5.6: src/assuan-defs.h, 1-20
=====

```

```

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

```

```

=====
libblockdev-2.26: LICENSE
libbytesize-2.6: LICENSE
=====

```

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```

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

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```
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```

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

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=====
libcap-2.66: pam_cap/License
=====
```

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

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```
=====
libdrm-2.4.110: xf86drm.c, 9-32
=====
```

```
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 */
```

```
=====
libevdev-1.12.1: COPYING
=====
```

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libffi-3.4.4: LICENSE
=====
```

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```
=====
libftdi-1.4: COPYING.LIB
=====
```

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=====
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```
=====  
libidn2-2.3.2: src/idn2.c, 1-16  
=====
```

```
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```

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```

```
*/
```

```
=====  
libidn2-2.3.2: lib/idn2.h.in, 1-27  
=====
```

```
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```

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```
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```
=====
libjpeg-turbo-2.1.5.1: cdjpeg.h, 1-13
=====
```

/*

* cdjpeg.h

```
*
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*
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=====

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

=====
libjpeg-turbo-2.1.5.1: djpeg.c, 1-11
=====

/*
 * djpeg.c
 *
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=====
```

libmali-xlnx-r9p0-01rel0: EULA

=====

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LES-PRE-xxxxx

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

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Written by: Philip Hazel
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=====
libtirpc-1.3.2: src/netname.c, 1-27
rpcbind-1.2.6: src/rpcinfo.c, 1-27
=====

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```

```

*/

=====
libunistring-1.0: README, 45-65
=====

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-----

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=====
libunistring-1.0: 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}
@author Bruno Haible
```

```
@ifnohtml
@page
@vskip 0pt plus 1filll
@c @insertcopying
Copyright (C) 2001-2022 Free Software Foundation, Inc.
```

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```
@end ifnohtml
@end titlepage
```

```
@c Table of Contents
@contents
```

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

```
@menu
* Introduction::          Who may need Unicode strings?
* Conventions::          Conventions used in this manual
* untypes.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
* unigrbrk.h::         Grapheme cluster breaking
* uniwbrk.h::          Word breaks in strings
* unilbrk.h::          Line breaking
* uninorm.h::          Normalization forms
* unicast.h::          Case mappings
* uniregex.h::         Regular expressions
* Using the library::  How to link with the library and use it?
* More functionality:: More advanced functionality
* The wchar_t mess::   Why @code{wchar_t *} strings are useless
* The char32_t problem:: Why @code{char32_t *} strings are problematic
* Licenses::           Licenses

```

```

* Index::              General Index

```

```
@detailmenu
```

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

```
Introduction
```

```

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

```

```
unistr.h
```

```

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

```

```
Elementary string functions
```

```

* Iterating::
* Creating Unicode strings::
* Copying Unicode strings::
* Comparing Unicode strings::
* Searching for a character::
* Counting characters::

```

```
Elementary string functions on NUL terminated strings
```

```

* Iterating over a NUL terminated Unicode string::
* Length::
* 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::

unictype.h

- * General category::
- * Canonical combining class::
- * Bidi class::
- * Decimal digit value::
- * Digit value::
- * Numeric value::
- * Mirrored character::
- * Arabic shaping::
- * Properties::
- * Scripts::
- * Blocks::
- * ISO C and Java syntax::
- * Classifications like in ISO C::

General category

- * Object oriented API::
- * Bit mask API::

Properties

- * Properties as objects::
- * Properties as functions::

unigbrk.h

- * Grapheme cluster breaks in a string::
- * Grapheme cluster break property::

uniwbrk.h

- * Word breaks in a string::
- * Word break property::

uninorm.h

- * Decomposition of characters::
- * Composition of characters::
- * Normalization of strings::
- * Normalizing comparisons::
- * Normalization of streams::

unicase,h

- * Case mappings of characters::
- * Case mappings of strings::
- * Case mappings of substrings::
- * Case insensitive comparison::
- * Case detection::

Using the library

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

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- * GNU LGPL:: GNU Lesser General Public License
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@end detailmenu

@end menu

@node Introduction

@chapter Introduction

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

It consists of the following parts:

@table @code

@item <unistr.h>

elementary string functions

@item <unicnv.h>

conversion from/to legacy encodings

@item <unistdio.h>

formatted output to strings

@item <uniname.h>

character names

@item <unictype.h>

character classification and properties

@item <uniwidth.h>

string width when using nonproportional fonts

@item <unigbrk.h>

grapheme cluster breaks

@item <uniwbrk.h>

word breaks

```

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

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

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

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

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

@node Unicode
@section Unicode

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

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

```

```

@cindex UCS-4
@table @asis
@item UTF-8
Every character is represented as 1 to 4 bytes.
@item UTF-16
Every character is represented as 1 to 2 units of 16 bits.
@item UTF-32, a.k.a@. UCS-4
Every character is represented as 1 unit of 32 bits.
@end table

```

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

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

References:

```

@itemize @bullet
@item
The Unicode standard:@texnl{} @url{https://www.unicode.org/}
@item
Definition of UTF-8:@texnl{} @url{https://www.rfc-editor.org/rfc/rfc3629.txt}
@item
Definition of UTF-16:@texnl{} @url{https://www.rfc-editor.org/rfc/rfc2781.txt}
@item
Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{}
@url{https://www.cl.cam.ac.uk/~mgk25/unicode.html}
@end itemize

```

```

@node Unicode and i18n
@section Unicode and Internationalization

```

```

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

```

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

Use of Unicode also enables multilingualization: the ability of having text

in multiple languages present in the same document or even in the same line of text.

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

@itemize @bullet

@item

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

@item

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

@item

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

@item

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

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

@end itemize

@node Locale encodings

@section Locale encodings

@cindex locale

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

@cindex locale categories

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

@itemize @bullet

@item

The character encoding and the character properties. This is the @code{LC_CTYPE} category.

@item

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

@item

The language specific translations of messages. This is the @code{LC_MESSAGES} category.

@item

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

@item

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

@item

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

@end itemize

@cindex locale encoding

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

@item

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

@item

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

@item

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

@item

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

@end itemize

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

@itemize @bullet

@item

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

@item

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

@item

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

@item

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

@item

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

@item

gnuilib has functions @func{mbssep} and @func{mbstok_r} that are

like `@posixfunc{strsep}` and `@posixfunc{strtok_r}` but work in multibyte locales.

@item
 glibc has functions `@func{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 a pointer, or -1 for functions that return an @code{int}).

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

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

```
@include unicast.texi
@include uniregex.texi
```

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

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

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

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

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

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

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

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

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

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

in either 64-bit mode or 32-bit mode, you should have used the option `--libdir=${LIBUNISTRING_PREFIX}/lib64`.

@cindex compiler options

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

So that the compiler finds the library during its linking pass, you have to pass it the options `-L${LIBUNISTRING_LIBDIR} -lunistring`. On some systems, in some configurations, you also have to pass options needed for linking with `libiconv`. The autoconf macro `gl_LIBUNISTRING` (see @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 `<unistring/version.h>`. It contains the version number of the libunistring library.

@deftypevr Macro int `_LIBUNISTRING_VERSION`

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

@deftypevr Constant int `_libunistring_version`

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

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

@node Autoconf macro

@section Autoconf macro

@cindex autoconf macro

GNU Gnulib provides an autoconf macro that tests for the availability of `libunistring`. It is contained in the Gnulib module `libunistring`, see@texnl{}

@url{https://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 submit a detailed bug report either in the bug tracker at the project page

@url{https://savannah.gnu.org/projects/libunistring}, or by email to the @code{bug-libunistring@gnu.org} mailing list.

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 @code{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{https://www.pango.org/}.

@include wchar_t.texi

@include char32_t.texi

@node Licenses
@appendix Licenses
@cindex Licenses

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

@itemize @bullet
@item
The @code{libunistring} library and its header files are dual-licensed under
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@itemize @bullet
@item @minus{}
the terms of the GNU Lesser General Public License (LGPL) version 3 or
(at your option) any later version, or
@item @minus{}
the terms of the GNU General Public License (GPL) version 2 or
(at your option) any later version, or
@item @minus{}
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@end itemize
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based on the GNU GPL version 3, see @ref{GNU GPL}.
@*
You can find the GNU GPL version 2 at
@url{https://www.gnu.org/licenses/old-licenses/gpl-2.0.html}.
@*
Note: This dual license makes it possible for the @code{libunistring} library
to be used by packages under GPLv2 or GPLv2+ licenses, in particular. See
the table in @url{https://www.gnu.org/licenses/gpl-faq.html#AllCompatibility}.

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```

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@end itemize

@menu

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* GNU LGPL::	GNU Lesser General Public License
* GNU FDL::	GNU Free Documentation License

@end menu

@page

@node GNU GPL

@appendixsec GNU GENERAL PUBLIC LICENSE

@cindex GPL, GNU General Public License

@cindex License, GNU GPL

@include gpl.texi

@page

@node GNU LGPL

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, GNU Lesser General Public License

@cindex License, GNU LGPL

@include lgpl.texi

@page

@node GNU FDL

@appendixsec GNU Free Documentation License

@cindex FDL, GNU Free Documentation License

@cindex License, GNU FDL

@include fdl.texi

@node Index

@unnumbered Index

@printindex cp

@bye

@c Local Variables:

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

```
=====
libunwind-1.6.2: COPYING
=====
```

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

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

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

```
=====
```

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 *
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 *
 * (This code is based on btrfs-progs/btrfs.c.)
 */
```

```
=====  
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netbase-6.3: debian/copyright
=====

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=====
nettle-3.7.3: serpent-decrypt.c, 14-36
nettle-3.7.3: serpent-set-key.c, 14-36
=====

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```
=====
nspr-4.29: configure.in, 3-6
=====
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nspr-4.29: Makefile.in, 4-38
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```

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

include $(MOD_DEPTH)/config/autoconf.mk

DIRS = config pr lib

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

DIST_GARBAGE = config.cache config.log config.status

all:: config.status export

include $(topsrcdir)/config/rules.mk

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

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```
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```

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

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```
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```
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```

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```
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```

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

```
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- doc/example/pcsc_demo.c
- the files in src/spy/
- the files in UnitaryTests/

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*
* Author: Nikos Mavrogiannopoulos <nmav@redhat.com>
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```
=====
perl-5.34.3: Copying
=====
```

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Version 1, February 1989

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```

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```
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at assemblers) written by James Hacker.
```

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

That's all there is to it!

```
=====
perl-5.34.3: Artistic
=====
```

The "Artistic License"

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```
=====
polkit-0.119: COPYING
=====
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards

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

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

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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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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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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

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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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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.

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

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

```
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version 2 of the License, or (at your option) any later version.
```

```
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```

```
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Free Software Foundation, Inc., 59 Temple Place - Suite 330,
Boston, MA 02111-1307 USA.
```

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

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

That's all there is to it!

```
=====
polkit-0.119: src/polkit/polkit.h, 1-20
=====
```

```
/*
 * Copyright (C) 2008 Red Hat, Inc.
```

```

*
* This library is free software; you can redistribute it and/or
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* License as published by the Free Software Foundation; either
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*
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*
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* Public License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place, Suite 330,
* Boston, MA 02111-1307, USA.
*
* Author: David Zeuthen <davidz@redhat.com>
*/

```

```

=====
popt-1.18: COPYING
=====

```

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```

=====
pugixml-1.12: readme.txt, 29-52
=====

```

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```
=====
python3-3.10.13: LICENSE
=====
```

A. HISTORY OF THE SOFTWARE

```
=====
```

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

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

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

All Python releases are Open Source (see <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python

releases have also been GPL-compatible; the table below summarizes the various releases.

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

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard list pricing applicable at the commencement date of any such Renewal Term.

The Qt Company may either request the Licensee to place a purchase order corresponding to a quote by The Qt Company, or use Licensee's stored Credit Card information in the Qt Account to automatically charge the Licensee for the relevant Renewal Term.

3.2. Distribution of Applications

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement), right and license, valid for the Agreement Term, to

- (i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution on the Deployment Platforms, and
- (ii) grant perpetual and irrevocable sublicenses to Redistributables, as distributed hereunder, for Customers solely to the extent necessary in order for the Customers to use the Applications for their respective intended purposes.

Right to distribute the Redistributables as part of an Application as provided herein is not royalty-bearing but is conditional upon the Application having been created, updated and maintained under a valid and duly paid Development Licenses.

3.3. Distribution of Devices

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement), right and license, valid for the Agreement Term, to

- (i) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended

- to be installed, incorporated or integrated into Devices for execution on the Deployment Platforms, and
- (ii) grant perpetual and irrevocable sublicenses to Redistributables, as distributed hereunder, for Customers solely to the extent necessary in order for the Customers to use the Devices for their respective intended purposes.

Right to distribute the Devices as provided herein is conditional upon

- (i) the Devices having been created, updated and maintained under a valid and duly paid Development Licenses, and
- (ii) the Licensee having acquired corresponding Distribution Licenses at the time of distribution of any Devices to Customers.

3.4. Further Requirements

The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

- (i) Licensee acknowledges that The Qt Company has separate products of Licensed Software for the purpose of Applications and Devices respectively, where development and distribution of Devices is only allowed using the correct designated product. Licensee shall make sure and bear the burden of proof that Licensee is using a correct product of Licensed Software entitling Licensee to development and distribution of Devices;
- (ii) Licensee shall not remove or alter any copyright, trademark or other proprietary rights notice(s) contained in any portion of the Licensed Software;
- (iii) Applications must add primary and substantial functionality to the Licensed Software so as not to compete with the Licensed Software;
- (iv) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);
- (v) Licensee shall not use Licensed Software in any manner or for any purpose that infringes, misappropriates or otherwise violates any Intellectual property or right of any third party, or that violates any applicable law;
- (vi) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications, except that Licensee may use "Built with Qt" logo to indicate that Application(s) or Device(s) was developed using the Licensed Software;
- (vii) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors and Affiliates as Designated Users to use Licensed Software pursuant to this Agreement). Such right may be available for the Licensee subject to a separate software development kit ("SDK") license agreement to be concluded with The Qt

Company;

- (viii) Licensee shall not grant the Customers a right to (a) make copies of the Redistributables except when and to the extent required to use the Applications and/or Devices for their intended purpose, (b) modify the Redistributables or create derivative works thereof, (c) decompile, disassemble or otherwise reverse engineer Redistributables, or (d) redistribute any copy or portion of the Redistributables to any third party, except as part of the onward sale of the Application or Device on which the Redistributables are installed;
- (ix) Licensee shall not and shall cause that its Affiliates or Contractors shall not use Licensed Software in any Prohibited Combination, unless Licensee has received an advance written permission from The Qt Company to do so. Absent such written permission, any and all distribution by the Licensee during the Agreement Term of a hardware device or product a) which incorporate or integrate any part of Licensed Software or Open Source Qt; or b) where substantial functionality is provided by software built with Licensed Software or Open Source Qt or otherwise depends on the Licensed Software or Open Source Qt, shall be considered to be Device distribution under this Agreement and shall be dependent on Licensee's compliance thereof (including but not limited to obligation to pay applicable License Fees for such distribution). Notwithstanding what is provided above in this sub-section (ix), Licensee is entitled to use and combine Licensed Software with any Permitted Software;
- (x) Licensee shall cause all of its Affiliates, Contractors and Customers entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);
- (xi) Except when and to the extent explicitly provided in this Section 3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software; and
- (xii) Licensee shall not attempt or enlist a third party to conduct or attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

3.5 QA Tools License

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for the Development License Term, to use the QA Tools for Licensee's internal business purposes in

the manner provided below and in Appendix 1 hereto.

Licensee may modify the QA Tools except for altering or removing any details of ownership, copyright, trademark or other property right connected with the QA Tools.

Licensee shall not distribute the QA Tools or any part thereof, modified or unmodified, separately or as part of any software package, Application or Device.

Upon expiry of the initially agreed Development License Term, the respective Development License Term shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing, or any other method acceptable to The Qt Company (it being specifically acknowledged and understood that verbal notification is explicitly deemed inadequate in all circumstances), that it does not wish to continue the Development License Term, such notification to be provided to the other Party no less than thirty (30) days before expiry of the respective Development License Term. The Qt Company shall, in good time before the due date for the above notification, remind the Licensee on the coming Renewal Term. Unless otherwise agreed between the Parties, Renewal Term shall be 12 months.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard list pricing applicable at the commencement date of any such Renewal Term.

3.6 Evaluation License

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for the Evaluation License Term to use the Licensed Software solely for the Licensee's internal use to evaluate and determine whether the Licensed Software meets Licensee's business requirements, specifically excluding any commercial use of the Licensed Software or any derived work thereof.

Upon the expiry of the Evaluation License Term, Licensee must either discontinue use of the relevant Licensed Software or acquire a commercial Development License or QA Tools License specified herein.

4. THIRD-PARTY SOFTWARE

The Licensed Software may provide links or access to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not, however, comprise part of the Licensed Software, but is provided to Licensee complimentary and use thereof is discretionary for the Licensee. Third-Party Software will be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to

applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample", "Example" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that (i) it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement, and (ii) Licensed Software will operate materially in accordance with its specifications.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. LIMITATION OF LIABILITY

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY BY LICENSEE DURING THE DEVELOPMENT LICENSE TERM DURING WHICH THE EVENT RESULTING IN SUCH LIABILITY OCCURRED.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the agreed Development License Term or other agreed fixed time period. Support is provided according to agreed support level and subject to applicable requirements and restrictions, as specified in the Support Terms.

Unless otherwise decided by The Qt Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support Terms, provided that during the respective ongoing Support period the level of Support may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Agreement Term each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other

Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an Appendix 2 hereto, as the case may be.

Unless otherwise expressly provided in this Agreement, the License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses

Licensee may purchase Development Licenses, Distribution Licenses and QA Tools

Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase.

Unless expressly otherwise agreed, any price or other term quoted to the Licensee or specified herein shall only be valid for the thirty (30) days from the effective date of this Agreement, Appendix 2 or the date of the quote, as applicable.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

Licensee acknowledges and agrees that all Purchase Orders for Licensed Software the Licensee makes during the Agreement Term shall be governed exclusively under the terms of this Agreement.

10.3. Distribution License Packs

Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms

License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due and which have not been disputed by the Licensee in good faith.

10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping

Licensee shall at all times during the Agreement Term and for a period of two (2) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, , and (iii) any other information pertaining to Licensee's compliance with the terms of this Agreement (like e.g. information on products and/or projects relating to use of Distribution Licenses), as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least thirty (30) days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any possible in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities and shall be limited in scope to verify Licensee's compliance with the terms of this Agreement. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee shall pay to The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the

corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force until terminated pursuant to the terms of this Section 12 ("Agreement Term").

12.2. Termination for breach and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within ten (10) business days following The Qt Company's written notice thereof.

12.3. Termination for insolvency

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software under this Agreement. For clarity, a Development License of a Designated User or a QA Tools License, and all rights relating thereto, shall always terminate at the expiry of the respective Development License Term, even if the Agreement continues to remain in force.

Upon such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same by Licensee's duly authorized officer to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Except when this Agreement is terminated by The Qt Company due to Licensee's material breach as set forth in Section 12.2, the Licensee may continue distribution of Applications and Devices under the terms of this Agreement despite the termination of this Agreement. In such event the terms hereof will continue to be applicable and govern any such distribution of Applications and Devices beyond the expiry or termination of this Agreement. In case of termination by The Qt Company due to Licensee's material breach, Licensee must cease any distribution of Applications and Devices at the date of termination of this Agreement.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee pay to The Qt Company all such fees within 30 days from the effective date of termination of this Agreement.

Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension of Rights under Special Circumstances

In the event of The Qt Company choosing not to renew the Development License(s) or QA Tools Licenses, as set forth in Section 3.1 and 3.5 respectively, and where such decision of non-renewal is not due to any ongoing breach or alleged breach (as reasonably determined by The Qt Company) by Licensee of the terms of this Agreement or any applicable license terms of Open Source Qt, then all valid and affected Development Licenses and QA Tools licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2.

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) or QA Tools Licenses, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid Development Licenses and QA Tools Licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

For clarity, in case of an extension under this Section 12.5, any such

extension shall not apply to The Qt Company's Support obligations, but Support shall be provided only up until the end of the respective fixed Development License Term regardless of the extension of relevant Development License or QA Tools License, unless otherwise agreed between the Parties.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of International Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written

consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement

This Agreement, the Appendices hereto, the License Certificate and any applicable quote and Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.

14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the

event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action, as to be ordered by the relevant dispute resolution body.

14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement,

The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data will be primarily collected from the relevant individuals but may be collected also from Licensee (e.g. in the course of Licensee's reporting obligations). The Parties acknowledge that as The Qt Company determines the purpose and means for such collection and processing of the applicable personal data, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy and security policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

14.13. Marketing Rights

Parties have agreed upon Marketing Rights pursuant to Appendix 7, if any.

APPENDICES

The Agreement includes following Appendices 1-10, as applicable.

- Appendix 1: Licensed Software details
- Appendix 2: Pricing
- Appendix 3: Add-on Software details (optional)
- Appendix 4: Small business and startup Licenses (optional)
- Appendix 5: Non-commercial and educational Licenses (optional)
- Appendix 6: License Reporting (optional)
- Appendix 7: Marketing Rights (optional)
- Appendix 8: Intentionally left blank (optional)
- Appendix 9: Support Terms
- Appendix 10: Conversion from legacy Licenses to Subscription (optional)

APPENDIX 1: LICENSED SOFTWARE

The modules and/or tools that are included in the latest publicly available version of the respective product at the effective date of this Agreement- Qt for Application Development Professional (ADP), Qt for Application Development Enterprise (ADE), Qt for Device Creation Professional (DCP), Qt for Device Creation Enterprise (DCE), - are marked with "X" in the below table. The modules and tools are specific to each product version respectively and may vary from version to version. Modules and tools included in the latest publicly

available version of the respective product at any given time are listed in Appendix 1 of the latest version of this Agreement available at www.qt.io/terms-conditions/. If a new version of Licensed Software does not include a module or tool present in an older version which Licensee is entitled to use under a valid license from The Qt Company, then Licensee will continue to have such right during the Term of this Agreement. In the event a new version of the Licensed Software adds modules or tools to any previous version(s), Licensee's rights will extend to cover also such additional modules and tools.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with "R" in the below table.

Modules / Tools	ADP	ADE	DCP	DCE
Active Qt	X,R	X,R	X,R	X,R
Qt 3D	X,R	X,R	X,R	X,R
Qt 5 Core Compatibility APIs	X,R	X,R	X,R	X,R
Qt Android Extras	X,R	X,R	X,R	X,R
Qt Bluetooth	X,R	X,R	X,R	X,R
Qt Canvas 3D	X,R	X,R	X,R	X,R
Qt Charts	X,R	X,R	X,R	X,R
Qt Concurrent	X,R	X,R	X,R	X,R
Qt Core	X,R	X,R	X,R	X,R
Qt Data Visualization	X,R	X,R	X,R	X,R
Qt D-Bus	X,R	X,R	X,R	X,R
Qt for Python	X,R	X,R	X,R	X,R
Qt for WebAssembly	X,R	X,R	X,R	X,R
Qt Gamepad	X,R	X,R	X,R	X,R
Qt Graphical Effects	X,R	X,R	X,R	X,R
Qt GUI	X,R	X,R	X,R	X,R
Qt Help	X,R	X,R	X,R	X,R

Qt Image Formats	X,R X,R X,R X,R
+-----+	
Qt Location	X,R X,R X,R X,R
+-----+	
Qt Lottie Animation	X,R X,R X,R X,R
+-----+	
Qt Mac Extras	X,R X,R X,R X,R
+-----+	
Qt Multimedia	X,R X,R X,R X,R
+-----+	
Qt Multimedia Widgets	X,R X,R X,R X,R
+-----+	
Qt Network	X,R X,R X,R X,R
+-----+	
Qt Network Authorization	X,R X,R X,R X,R
+-----+	
Qt NFC	X,R X,R X,R X,R
+-----+	
Qt OpenGL	X,R X,R X,R X,R
+-----+	
Qt PDF	X,R X,R X,R X,R
+-----+	
Qt Platform Headers	X,R X,R X,R X,R
+-----+	
Qt Positioning	X,R X,R X,R X,R
+-----+	
Qt Print Support	X,R X,R X,R X,R
+-----+	
Qt Purchasing	X,R X,R X,R X,R
+-----+	
Qt QML	X,R X,R X,R X,R
+-----+	
Qt Quick	X,R X,R X,R X,R
+-----+	
Qt Quick 3D	X,R X,R X,R X,R
+-----+	
Qt Quick Controls 1	X,R X,R X,R X,R
+-----+	
Qt Quick Controls	X,R X,R X,R X,R
+-----+	
Qt Quick Dialogs	X,R X,R X,R X,R
+-----+	
Qt Quick Extras	X,R X,R X,R X,R
+-----+	
Qt Quick Layouts	X,R X,R X,R X,R
+-----+	
Qt Quick Test	X,R X,R X,R X,R
+-----+	
Qt Quick Timeline	X,R X,R X,R X,R
+-----+	

Qt Quick WebGL	X,R X,R X,R X,R
+-----+	
Qt Quick Widgets	X,R X,R X,R X,R
+-----+	
Qt Remote Objects	X,R X,R X,R X,R
+-----+	
Qt Script	X,R X,R X,R X,R
+-----+	
Qt Script Tools	X,R X,R X,R X,R
+-----+	
Qt SCXML	X,R X,R X,R X,R
+-----+	
Qt Sensors	X,R X,R X,R X,R
+-----+	
Qt Serial Bus	X,R X,R X,R X,R
+-----+	
Qt Serial Port	X,R X,R X,R X,R
+-----+	
Qt Shader Tools	X,R X,R X,R X,R
+-----+	
Qt Speech	X,R X,R X,R X,R
+-----+	
Qt State Machine	X,R X,R X,R X,R
+-----+	
Qt SQL	X,R X,R X,R X,R
+-----+	
Qt SVG	X,R X,R X,R X,R
+-----+	
Qt Test	X,R X,R X,R X,R
+-----+	
Qt UI Tools	X,R X,R X,R X,R
+-----+	
Qt Virtual Keyboard	X,R X,R X,R X,R
+-----+	
Qt Wayland Compositor	X,R X,R X,R X,R
+-----+	
Qt WebChannel	X,R X,R X,R X,R
+-----+	
Qt WebEngine	X,R X,R X,R X,R
+-----+	
Qt WebSockets	X,R X,R X,R X,R
+-----+	
Qt WebView	X,R X,R X,R X,R
+-----+	
Qt Widgets	X,R X,R X,R X,R
+-----+	
Qt Windows Extras	X,R X,R X,R X,R
+-----+	
Qt X11 Extras	X,R X,R X,R X,R
+-----+	

Qt XML	X,R	X,R	X,R	X,R	
+-----+					
Qt XML Patterns	X,R	X,R	X,R	X,R	
+-----+					
Qt Designer (Qt Widget Designer)	X,R	X,R	X,R	X,R	
+-----+					
Qt Linguist	X,R	X,R	X,R	X,R	
+-----+					
Qt Assistant	X,R	X,R	X,R	X,R	
+-----+					
lupdate	X,R	X,R	X,R	X,R	
+-----+					
lrelease	X,R	X,R	X,R	X,R	
+-----+					
lconvert	X,R	X,R	X,R	X,R	
+-----+					
Qt MQTT		X,R	X,R	X,R	
+-----+					
Qt KNX		X,R	X,R	X,R	
+-----+					
Qt OPC UA		X,R	X,R	X,R	
+-----+					
Qt CoAP		X,R	X,R	X,R	
+-----+					
Boot 2 Qt stacks			X,R	X,R	
+-----+					
Qt OTA			X,R	X,R	
+-----+					
Device Utilities			X,R	X,R	
+-----+					
Qt Debugging Bridge (QBD) Daemon			X,R	X,R	
+-----+					
Qt Quick Ultralite Controls			X,R	X,R	
+-----+					
Qt Quick Ultralite			X,R	X,R	
+-----+					
Qt Safe Renderer (QSR)				X,R	
+-----+					
Qt Application Manager				X,R	
+-----+					
Qt Interface Framework				X,R	
+-----+					
Neptune Reference UI				X,R	
+-----+					
Qt for Android Automotive (QAA)				X,R	
+-----+					
Qt Creator	X	X	X	X	
+-----+					
Qt Design Studio Professional	X	X	X	X	
+-----+					

androiddeployqt	X	X	X	X	
+-----+					
androidtestrunner	X	X	X	X	
+-----+					
canbusutil	X	X	X	X	
+-----+					
dumpcpp	X	X	X	X	
+-----+					
dumpdoc	X	X	X	X	
+-----+					
fixqt4headers.pl	X	X	X	X	
+-----+					
idc	X	X	X	X	
+-----+					
moc	X	X	X	X	
+-----+					
pixeltool	X	X	X	X	
+-----+					
qdbus	X	X	X	X	
+-----+					
qdbuscpp2xml	X	X	X	X	
+-----+					
qdbusviwer	X	X	X	X	
+-----+					
qdbusxml2cpp	X	X	X	X	
+-----+					
qdistancefieldgenerator	X	X	X	X	
+-----+					
qdoc	X	X	X	X	
+-----+					
qhelpgenerator	X	X	X	X	
+-----+					
qlalr	X	X	X	X	
+-----+					
qmake	X	X	X	X	
+-----+					
qml	X	X	X	X	
+-----+					
qmlcachegen	X	X	X	X	
+-----+					
qmldom	X	X	X	X	
+-----+					
qmleasing	X	X	X	X	
+-----+					
qmlformat	X	X	X	X	
+-----+					
qmllint	X	X	X	X	
+-----+					
qmlpreview	X	X	X	X	
+-----+					

qmlprofiler	X	X	X	X	
+-----+					
qmlscene	X	X	X	X	
+-----+					
qmltestrunner	X	X	X	X	
+-----+					
qmltime	X	X	X	X	
+-----+					
qmlviewer	X	X	X	X	
+-----+					
qtdiag	X	X	X	X	
+-----+					
qtpaths	X	X	X	X	
+-----+					
qtplugininfo	X	X	X	X	
+-----+					
qvkgen	X	X	X	X	
+-----+					
rcc	X	X	X	X	
+-----+					
tracegen	X	X	X	X	
+-----+					
uic	X	X	X	X	
+-----+					
windeployqt	X	X	X	X	
+-----+					
Target toolchains			X	X	
+-----+					
Qt Debugging Bridge Host Tools			X	X	
+-----+					
qtconfig-gui			X	X	
+-----+					
Qt Emulator			X	X	
+-----+					
Qt Creator VxWorks plugin			X	X	
+-----+					
Qt Creator plugin for Qt				X	
Application Manager					
+-----+					
qmlinterfacegenerator				X	
+-----+					
qmltoccpp				X	
+-----+					
qulfontcompiler				X	
+-----+					
Qt Deployment Server				X	
+-----+					

Rights for Application and Device use cases

Following table summarizes the rights afforded by different products of the Licensed Software to create and distribute Applications and Devices as defined in this Agreement (X marks for rights):

	Applications	Devices
ADP	X	
ADE	X	
DCP	X	X
DCE	X	X

Licensed Software: Designer tools and modules

The modules and/or tools that are included in the respective product - Qt for Design Studio Professional (DSP), Qt for Design Studio Enterprise (DSE) - are marked with "X" in the below table.

Designer tools provides no Redistributables.

	DSP	DSE
Qt Design Studio	X	X
Qt Design Bridges		X
QML Live on host	X	X
QML Live on target		X
Variant Management		X
Shader creation tools		X
Profiling tools		X
Simulink support		X

Both DSP and DSE can be used to create an user interface for use cases covered by ADP, ADE, DCP and DCE.

Licensed Software: QA Tools

The modules and/or tools that are included in the respective QA Tools product - Squish (both Tester and execution Licenses), Coco or Test Center - are marked with "X" in the below table. Optional features that will need additional licenses are marked with "O". QA Tools include no Redistributables.

	Squish	Coco	Test Center
Squish IDE	X		
QA Tool-specific command line tools	X	X	X
Coverage Browser		X	
HTML interface			X
Qt Support Module	X		
Java support module	X		
Windows support module	X		
iOS support module	X		
Android support module	X		
Web support module	X		
macOS support module	X		
VNC support module	X		
MCU support module	X		
C and C++ language module		X	
C# language module		X	
QML language module		X	
Tester Cross-Compilation Add-On	O	O	

License capabilities for Squish

License capabilities that are included in the Squish Tester and Execution Licenses are marked with "X" in the below table.

-----+

	Squish Tester License	Squish Execution License
Ability to create, edit, and debug test cases	X	
Ability to execute test cases	X	X

Install and use capabilities for QA Tools

Install and use capabilities that are included in the respective QA Tools products are defined in the below table.

	Squish Tester License	Squish Execution License	Coco License	Test Center License
Number of installation instances per license	Unlimited	Unlimited	Unlimited	One (1)
Number of concurrent users	Limited by number of Squish Tester Licenses	Limited by number of Squish Execution Licenses	Limited by number of Coco Tester Licenses	Limited by number of Test Center Licenses

APPENDIX 2: PRICING

Separate template

APPENDIX 3: ADD-ON PRODUCTS TO LICENSED SOFTWARE

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APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

Start-up Companies are qualified for a discounted License Fee for maximum of four (4) Development Licenses ("Start-up Development License") unless otherwise agreed between the parties.

Start-up Development License entitles the respective Designated User for

Support only for Install Support as defined in Appendix 9, Support Terms.

Upon expiry of the respective Development License Term, the Start-up Development Licenses shall be automatically extended, pursuant to Section 3.1 of the Agreement, for a Renewal Term either as new Start-up Development Licenses (if the Licensee still qualifies as a Start-up Company), or as normal then standard list price Development Licenses (if the Licensee no longer qualifies as a Start-up Company).

APPENDIX 5: NON-COMMERCIAL AND EDUCATIONAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Agreement Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Agreement Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose. Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software. Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use

Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 3.5, 3.6, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

"Licensee shall not:

- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;
- transfer, publish, sublicense, disclose, display or otherwise make the Licensed Software available to any third party (except that Licensee may demonstrate the Demo Units pursuant to Section 3.1);
- in any way combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt; Licensee shall cause all Designated Users who make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof. Licensee shall be responsible for any and all actions and omissions of its Designated Users relating to the Licensed Software and use thereof. Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company."

V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Agreement Term, unless and until terminated pursuant to the terms of Section 12.

Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred."

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

APPENDIX 6: LICENSE REPORTING

Separate template

APPENDIX 7: MARKETING RIGHTS

This Appendix 7 has the purpose to grant visibility through The Qt Company marketing channels of the usage of Qt and related product and service in Licensee product. Following related marketing right are agreed between the Qt Company and the Licensee.

1. LICENSEE NAME AND LICENSEE LOGO

The Qt Company has the right to use Licensee name and Licensee logo in public

channel, in respect of the value proposition that the Qt company provided to the Licensee.

2. MARKETING CONTENT COOPERATION

2.1. LICENSEE CASES

The Licensee is open to collaborate on content creation for marketing and communication purpose. The Licensee will nominate one responsible that will be in charge to support The Qt company with this content creation, according to content format paragraph, answering technical questions or sharing professional picture or video of required content. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

2.2. FINAL PRODUCT REFERRAL

Licensee agree that The Qt Company could connect their software product and services with the Licensee device or application, that the Licensee has created using The Qt Company technology and competence. Licensee will provide high quality picture, and video of the created final product where the Qt technology is running into. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

3. CONTENT FORMAT

- Video
- Written Licensee case
- Press release
- Social media posts
- Emails
- Event booth Graphics
- Printed material

4. CHANNELS

- Social media
- The Qt Company resource center and website
- Email to the Qt company contact database
- Events
- Online webinars
- Public speech
- Public presentations

APPENDIX 8: INTENTIONALLY LEFT BLANK

APPENDIX 9: SUPPORT TERMS

These Qt support terms and conditions ("Support Terms") set forth the legal framework, where under The Qt Company ("The Qt Company") provides support services (as herein defined) to the Licensee.

1 DEFINITIONS

"Application Code" shall mean a computer software program written strictly using the Qt programming language, by or for the Licensee, with a user interface, enabling the Licensee or their users to accomplish a specific task and display any results of the task on the display monitor or screen.

"Dedicated Contact" shall mean the employee of The Qt Company who will be the first point of contact for all Designated Users' requests for Support.

"Errors" shall mean an error, flaw, mistake, failure, or fault in Licensed Software that prevents it from behaving as described in the relevant documentation or as agreed between the Parties.

"Extended Support" shall mean a continuation to the normal Support period, which allows Designated Users to receive selected Support (Standard Support or Premium Support) for a version of Licensed Software that is no longer generally supported by The Qt Company.

"Install Support" shall mean Support that is limited to installation related Error(s) on Development Platforms specified as supported host platforms for each Qt release under doc.qt.io.

"Maintenance Release" shall mean a release or version of Licensed Software containing bug fixes, error corrections and other changes targeted to maintaining and improving product stability and quality. Maintenance Releases are generally depicted as a change to the third digit of Licensed Software version number.

"Platforms" shall mean both Development Platforms and Deployment Platforms. Supported host and target Platforms may vary from for each Qt release as defined under doc.qt.io.

"Premium Support" shall mean an upgraded level of Support that The Qt Company provides pursuant to these Support Terms to Licensee if Licensee has purchased Premium Support instead of Standard Support. Premium Support shall always be purchased for all Designated User(s) in the respective development team of the Licensee.

"Response Time" shall mean the period of time from when Licensee notifies TheQt Company about an Error or requests Support until The Qt Company provides Licensee with a response that addresses (but not necessarily resolves) the reported Error or provides the requested Support.

"Standard Support" shall mean standard level of Support that The Qt Company provides pursuant to these Support Terms to Licensee.

"Support" shall mean developer assistance that is provided by The Qt Company to assist eligible Designated Users in Licensed Software installation, usage

and functionality problem resolution for Error(s) and Error workarounds pursuant to the terms of these Support Terms. Support for different products is available as specified in the below table ("X" marking the Support that is included in the license price, optional Add-on Support services are marked as "O"):

	ADP	ADE	DCP	DCE	DSP	DSE	Squish	Coco	Test Center
Install Support	X	X	X	X	X	X	X	X	X
Standard Support		X	X	X	X	X	X	X	X
Premium Support		O	O	O	O	O	O	O	O
Extended Support		O	O	O	O	O			
Tool Qualification Kit							O	O	

"Support Validity Term" shall mean the Development License Term or any other fixed time period agreed between the Parties during which time the Customer is eligible to receive Support from The Qt Company.

"Tool Qualification Kit" shall mean a customized set of documents and validation test cases.

2 SUPPORT SERVICES

2.1 Support Services Provided by The Qt Company

Subject to these Support Terms and during the Support Validity Term, The Qt Company will via its web-based support user-interface, provide Designated User(s) with Support for the Platforms which Customer has licensed under the Agreement.

The Qt Company will make commercially reasonable efforts to solve any Errors reported by Designated User(s). Resolution of an Error may be provided through Designated User(s) themselves downloading of a later released version of the applicable Licensed Software product(s) or providing the Designated User with a temporary workaround addressing such Error.

2.2 Licensee's Obligations

To report an Error, the Designated User shall register the Error on The Qt Company's web-based support user interface located at:
<https://account.qt.io/login> or at another location designated by The Qt Company.

The Designated User must provide adequate information and documentation to The Qt Company to enable it to recreate the Error or problem for which the Designated User has sought assistance.

To ensure efficient handling of Errors, the Designated User must provide the following information, where relevant:

- A clear, detailed description of the problem, question or suggestion;
- Identification of which Licensed Software product and version is affected;
- Identification of the operating environment (e.g. operating system, hardware Platform, build tools, etc.) on which the problem exists;
- On Standard Support: A complete and compilable test case of not more than 500 lines of code that demonstrates the problem;
- On Premium Support: A complete and compilable test case that demonstrates the problem or access to Application Code source codes.

Additional relevant content, such as screenshots, etc.

Additional content should be included as attachments. The preferred image formats are JPEG and PNG. Compressed content should be included in zip or tar.gz archives. Executable content and documents in platform specific formats such as Microsoft Office' are not accepted.

In order for The Qt Company to provide prompt handling of Errors, the Designated User shall promptly respond to any requests from The Qt Company for additional information.

2.3 Support Limitations

General limitations:

Each version or release of the Licensed Software will be Supported under Standard Support or Premium Support only for limited time period as set forth in doc.qt.io. For example, regular releases of Qt Software are supported for one (1) year from the release date of the version x.y.0 and Long Term Support (LTS) Releases are supported for a period of three (3) years from the release date of the LTS version x.y.0.

The Qt Company shall only provide Support for Designated User(s).

Support is made available for the entire development teams only: It is not allowed to purchase Support only for some members of the development team, and all Designated Users of the respective development team must be eligible for the same level of Support.

Support is not provided for snapshots, preview releases, beta releases or release candidates.

The Qt Company shall have no obligation to provide Support for hardware or operating system specific problems or problems arising from improper use, accident, neglect or modification of Qt.

Limitations with Install Support:

Support limited to Error(s) regarding installation and setting up of the Qt development environment on host Platforms.

Limitations with Standard Support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software even if such third-party software is distributed together with Licensed Software product(s).

The Qt Company shall only provide Support for Error(s) that are reported on and can be reproduced on Platforms that are officially supported for the release of the Licensed Software.

Limitations with Premium support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software. However, if such third-party software is distributed together with Licensed Software, The Qt Company will make commercially reasonable efforts to solve such problems.

The Qt Company shall only provide Support for Error(s) that can be reproduced on Platforms that are officially supported for the release of the Licensed Software. If the Error is on a Platform that is not supported, The Qt Company will make commercially reasonable efforts to provide a solution on closest corresponding supported Platform.

Premium Support is optional and purchased for an agreed bucket of hours ("Bucket"). Hours can be used by any Designated User in the respective development team. To encourage continuous usage of the Support, ten percent (10%) of the purchased Bucket shall automatically expire (regardless of whether such support hours are actually used or not by the Licensee) each month after three (3) months from the purchase of the Premium Support.

2.4 Extended Support

Extended Support extends the Support Validity Term for a release of Licensed Software that is no longer generally supported.

Extended Support includes and is by default provided with Standard Support rules and limitations, unless Extended Support is purchased with Premium Support in which case Premium Support rules and limitations will apply.

Extended Support is optional and purchased with annual fee and separately per each Licensee product. Extended Support will need definition of (i) Licensee product, (ii) used Platform(s) and (iii) Licensed Software version(s).

2.5 Tool Qualification Kit

The Qt Company shall provide set of customized documents and validation tests that enable Licensee to qualify QA testing tool for the purpose of ISO 26262, EN 50128, DO-330, IEC 61508, IEC 62304 or IEC 13485 certification Licensee end to end solution.

3 RESPONSE TIME

In performing Support, The Qt Company shall commit to following, non-binding, Response Times:

Standard Support: Errors and Support requests will have a Response Time not to exceed two (2) business days.

Premium Support: Errors and Support requests will have a Response Time not to exceed one (1) business day.

For complex issues, The Qt Company may provide an initial response to the Designated User and then follow up, without undue delay, with additional communication before an Error is properly addressed or Support provided.

4 ADDITIONAL SERVICES IN PREMIUM SUPPORT

The Designated User(s) will be assigned a Dedicated Contact to handle requests for Support. Dedicated Contact is subject to change in cases such as sick leave, vacation and other similar reasons.

The Designated User(s) can on request ask The Qt Company to access their computer remotely in order to resolve problems directly.

The Designated User(s) can request a session via Instant Messaging or phone call in the support request to The Qt Company.

Premium Support can assist Licensee in implementing new features, bug fixes and accessing patches in Licensed Software or Application Code.

All Support requests will be handled with high priority.

5 MAINTENANCE RELEASES, UPDATES AND UPGRADES

Under the Support the Customer is eligible for Maintenance Releases and Updates that The Qt Company generally makes available to customers who has purchased Support. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be provided under the Support.

The primary focus of Maintenance Releases is product quality. Therefore, each Maintenance Release typically includes the following types of changes to the previous version of Licensed Software:

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 */
```

```
=====
sed-4.8: sed/sed.h, 1-15
=====
```

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```
=====
shadow-4.11.1: COPYING
=====
```

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```
=====
```

```
shadow-4.11.1: src/passwd.c, 2-30
```

```
=====
```

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*/
```

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

```
#ident "$Id$"
```

```
#include <errno.h>
#include <fcntl.h>
#include <getopt.h>
#include <pwd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <time.h>
#include "defines.h"
#include "getdef.h"
#include "nscd.h"
#include "sssd.h"
#include "prototypes.h"
#include "pwauth.h"
#include "pwio.h"
#include "shadowio.h"
#include "shadowlog.h"
```

```
=====
```

```
slang-2.3.2: COPYING
```

```
=====
```

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sqlite3-3.38.5: sqlite3.h, 1-11
=====
```

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

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

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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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```
-- END GPLv2+ License ---
```

```
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```

```
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```

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```
=====
usbutils-014: lsusb.c, 1-1
=====
```

```
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```

```
=====
usbutils-014: lsusb.py.in, 2-2
=====
```

```
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```
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```

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```
=====
wayland-1.20.0: src/wayland-server.c, 1-24
=====
```

```
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 */
```

```
=====
xcb-util-0.4.0: src/xcb_aux.c, 1-30
=====
```

```
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 * Copyright © 2008 Ian Osgood <iano@quirkster.com>
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```
=====  
xcb-util-0.4.0: src/xcb_event.h, 1-27  
=====
```

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```
=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
=====
```

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```
=====
xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====
```

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*/
```

```
=====  
xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30  
=====
```

```
/*
```

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```
*/
```

```
=====  
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24  
=====
```

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```
=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
=====
```

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```
=====  
xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24  
=====
```

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```
=====  
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27  
=====
```

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*/
```

```

=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
=====

```

```
/*
```

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*/
```

```

=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====

```

```
/*
```

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```

```
=====
xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
=====
```

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```
=====
xz-5.2.6: lib/getopt.c, 1-23
=====
```

```
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```

```
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```

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```

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

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Breakpad, An open-source multi-platform crash reporting system

Project Homepage: <https://chromium.googlesource.com/breakpad/breakpad>

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Brotli

Project Homepage: <https://github.com/google/brotli>

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bspatch

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C++ port of zxcvbn, an advanced password strength estimation

library.

Project Homepage: <https://github.com/rianhunter/zxcvbn-cpp>

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Chromium OS system API

Project Homepage: <http://www.chromium.org/chromium-os>

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CityHash Project Homepage: <https://github.com/google/cityhash>

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Closure compiler

Project Homepage: <http://github.com/google/closure-compiler>

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Cocoa extension code from Camino

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Compact Encoding Detection

Project Homepage: https://github.com/google/compact_enc_det

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Compact Language Detector v3 Project Homepage: <https://github.com/google/cld3>

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dom-distiller-js

Project Homepage: <https://github.com/chromium/dom-distiller>

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Expat XML Parser

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- `libavcodec/x86/flac_dsp_gpl.asm` - `libavcodec/x86/idct_mmx.c` -
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- `compat/solaris/make_sunver.pl` - `doc/t2h.pm` - `doc/texi2pod.pl` -
- `tests/checkasm/*` - `tests/tiny_ssim.c`
- the following filters in libavfilter:
 - `signature_lookup.c` - `vf_blackframe.c` - `vf_boxblur.c` -
 - `vf_cover_rect.c` - `vf_cropdetect.c` - `vf_delogo.c` - `vf_eq.c` -
 - `vf_fspp.c` - `vf_histeq.c` - `vf_hqdn3d.c` - `vf_kerndeint.c` -
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 - `vf_vaguedenoiser.c` - `vsrc_mptestsrc.c`

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- gmp - libaribb24 - liblensfun When combining them with FFmpeg, use the option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

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Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not with the GPL and/or the LGPL. If you wish to enable these libraries, even in that their license may be incompatible, pass `--enable-nonfree` to configure. will cause the resulting binary to be unredistributable. The Fraunhofer FDK AAC OpenSSL libraries are under licenses which are incompatible with the GPLv2 and 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_vectors_mips.c

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libavcodec/mips/amrbdec_mips.c

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libavcodec/mips/celp_math_mips.c

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libavcodec/mips/fft_mips.c

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libavcodec/mips/mpegauddsp_mips_float.c

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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)
Pascal Massimino <skal@planet-d.net>

Conversion to gcc syntax with modifications by Alexander Strange

Originally from dct/x86_asm/fdct_sse2_skal.asm in Xvid. Vertical pass is an of the scheme:

Loeffler C., Ligtenberg A., and Moschytz C.S.: Practical Fast 1D DCT Algorithm

Eleven Multiplications, Proc. ICASSP 1989, 988-991.

Horizontal pass is a double 4x4 vector/matrix multiplication, (see also Intel's Note 922:

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

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

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<http://www.elecard.com/peter/idct.html> <http://www.linuxvideo.org/mpeg2dec/>

These examples contain code fragments for first stage iDCT 8x8 (for rows) and stage DCT 8x8 (for columns) conversion to gcc syntax by Michael Niedermayer

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libavformat/oggparsetheora.c

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Fiat-Crypto: Synthesizing Correct-by-Construction Code for Cryptographic

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FidelityFX Single Pass Downsampler

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FlatBuffers

Project Homepage: <https://github.com/google/flatbuffers>

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Discusses general use and applications of FreeType, as well as future and additions to the library and distribution. If you are looking for support, 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 porting, etc.

Our home page can be found at

<https://www.freetype.org>

--- end of FTL.TXT ---

Fuse.js

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google-glog's symbolization library

Project Homepage: <https://github.com/google/glog>

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GVR Android SDK

Project Homepage: <https://github.com/googlevr/gvr-android-sdk>

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./test/resize.cpp ./test/mixingtypes.cpp ./test/product_trmv.cpp
./test/cholesky.cpp ./test/geo_quaternion.cpp ./test/miscmatrices.cpp
./test/integer_types.cpp ./test/product_large.cpp
./test/householder.cpp ./test/geo_orthomethods.cpp ./test/array_for_matrix.cpp
./test/upperbidiagonalization.cpp ./test/nomalloc.cpp ./test/packetmath.cpp
./test/geo_transformations.cpp ./test/swap.cpp
./test/inverse.cpp ./test/product_selfadjoint.cpp ./test/product_trsolve.cpp
./test/sparse_solver.h ./test/mapstride.cpp

./test/mapped_matrix.cpp ./test/geo_eulerangles.cpp ./test/eigen2support.cpp
./test/stdvector.cpp ./test/nesting_ops.cpp ./test/sparse_permutations.cpp
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./test/product_trmm.cpp ./test/linearstructure.cpp ./test/sparse_product.cpp
./test/stable_norm.cpp ./test/umeyama.cpp ./test/unalignedcount.cpp
./test/product_mmtr.cpp ./test/sparse_basic.cpp ./test/sparse_vector.cpp
./test/real_qz.cpp ./test/ref.cpp ./test/eigensolver_complex.cpp
./test/conjugate_gradient.cpp ./test/sparse.h ./test/simplicial_cholesky.cpp
./test/dynalloc.cpp ./test/product_notemporary.cpp ./test/geo_hyperplane.cpp
./test/qr.cpp ./test/hessenberg.cpp ./test/sizeof.cpp ./test/main.h
./test/permutationmatrices.cpp ./test/superlu_support.cpp ./test/qtvector.cpp
./test/determinant.cpp ./test/array_reverse.cpp ./test/unalignedassert.cpp
./test/product_symm.cpp ./test/corners.cpp ./test/dontalign.cpp

./test/geo_alignedbox.cpp ./test/diagonalmatrices.cpp ./test/product_small.cpp
./test/umfpack_support.cpp ./test/first_aligned.cpp ./test/qr_fullpivoting.cpp
./test/geo_parametrizedline.cpp ./test/eigen2/eigen2_unalignedassert.cpp
./test/eigen2/eigen2_alignedbox.cpp ./test/eigen2/eigen2_sparse_product.cpp
./test/eigen2/eigen2_nomalloc.cpp ./test/eigen2/eigen2_visitor.cpp
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./test/eigen2/eigen2_cwiseop.cpp
./test/eigen2/eigen2_smallvectors.cpp ./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_hyperplane.cpp ./test/eigen2/eigen2_eigensolver.cpp
./test/eigen2/eigen2_sizeof.cpp ./test/eigen2/eigen2_parametrizedline.cpp
./test/eigen2/eigen2_adjoint.cpp ./test/eigen2/eigen2_geometry.cpp
./test/eigen2/eigen2_newstdvector.cpp ./test/eigen2/eigen2_submatrices.cpp
./test/eigen2/eigen2_swap.cpp ./test/eigen2/eigen2_triangular.cpp
./test/eigen2/gsl_helper.h ./test/eigen2/eigen2_dynalloc.cpp
./test/eigen2/eigen2_map.cpp ./test/eigen2/main.h
./test/eigen2/eigen2_product_large.cpp ./test/eigen2/eigen2_first_aligned.cpp
./test/eigen2/eigen2_determinant.cpp ./test/eigen2/eigen2_sum.cpp
./test/eigen2/eigen2_regression.cpp

./test/eigen2/eigen2_product_small.cpp ./test/eigen2/eigen2_qtvector.cpp
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./test/eigen2/product.h ./test/eigen2/eigen2_sparse_basic.cpp
./test/array.cpp ./test/product_syrk.cpp ./test/commainitializer.cpp
./test/qr_colpivoting.cpp ./test/nullary.cpp ./test/bandmatrix.cpp
./test/product.h ./test/block.cpp ./test/vectorization_logic.cpp
./test/diagonal.cpp ./test/schur_complex.cpp ./test/sizeoverflow.cpp
./bench/benchFFT.cpp ./bench/eig33.cpp ./bench/spbench/spbenchsolver.h
./lapack/complex_double.cpp ./lapack/cholesky.cpp ./lapack/lapack_common.h
./lapack/single.cpp ./lapack/lu.cpp ./lapack/complex_single.cpp
./demos/mix_eigen_and_c/binary_library.cpp
./demos/mix_eigen_and_c/example.c ./demos/mandelbrot/mandelbrot.cpp
./demos/opengl/icosphere.cpp ./demos/opengl/icosphere.h
./demos/opengl/quaternion_demo.h ./demos/opengl/camera.h
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./demos/opengl/quaternion_demo.cpp ./debug/gdb/printers.py
./unsupported/test/openglsupport.cpp ./unsupported/test/jacobisvd.cpp

./unsupported/test/dgmres.cpp ./unsupported/test/matrix_square_root.cpp
./unsupported/test/matrix_exponential.cpp ./unsupported/test/forward_adolc.cpp
./unsupported/test/matrix_function.cpp ./unsupported/test/sparse_extra.cpp
./unsupported/test/svd_common.h ./unsupported/test/FFTW.cpp
./unsupported/test/autodiff.cpp ./unsupported/test/gmres.cpp
./unsupported/test/levenberg_marquardt.cpp ./unsupported/test/matrix_power.cpp
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./unsupported/Eigen/src/Polynomials/Companion.h
./unsupported/Eigen/src/NumericalDiff/NumericalDiff.h
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./unsupported/Eigen/src/Skyline/SkylineUtil.h
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./unsupported/Eigen/Splines ./unsupported/Eigen/MPRealSupport
./unsupported/Eigen/MoreVectorization ./unsupported/Eigen/LevenbergMarquardt
./unsupported/Eigen/FFT ./unsupported/Eigen/Polynomials
./unsupported/Eigen/Skyline ./COPYING.README ./COPYING.README ./LICENSE
./LICENSE ./Eigen/Eigen2Support ./Eigen/src/Eigen2Support/VectorBlock.h
./Eigen/src/Eigen2Support/Minor.h ./Eigen/src/Eigen2Support/Lazy.h
./Eigen/src/Eigen2Support/MathFunctions.h
./Eigen/src/Eigen2Support/Geometry/Hyperplane.h
./Eigen/src/Eigen2Support/Geometry/Rotation2D.h
./Eigen/src/Eigen2Support/Geometry/RotationBase.h
./Eigen/src/Eigen2Support/Geometry/Scaling.h

./Eigen/src/Eigen2Support/Geometry/AngleAxis.h
./Eigen/src/Eigen2Support/TriangularSolver.h ./Eigen/src/Eigen2Support/LU.h
./Eigen/src/Eigen2Support/SVD.h ./Eigen/src/Eigen2Support/Meta.h
./Eigen/src/Eigen2Support/Macros.h ./Eigen/src/Eigen2Support/LeastSquares.h
./Eigen/src/Jacobi/Jacobi.h ./Eigen/src/misc/Kernel.h
./Eigen/src/misc/Solve.h ./Eigen/src/misc/Image.h
./Eigen/src/SparseCore/SparseTranspose.h ./Eigen/src/SparseCore/SparseUtil.h
./Eigen/src/SparseCore/SparseDiagonalProduct.h
./Eigen/src/SparseCore/SparseDot.h ./Eigen/src/SparseCore/SparseCwiseUnaryOp.h
./Eigen/src/SparseCore/SparseBlock.h
./Eigen/src/SparseCore/CompressedStorage.h
./Eigen/src/SparseCore/MappedSparseMatrix.h
./Eigen/src/SparseCore/SparseView.h ./Eigen/src/SparseCore/SparseFuzzy.h
./Eigen/src/SparseCore/SparseSelfAdjointView.h
./Eigen/src/SparseCore/SparseVector.h ./Eigen/src/SparseCore/AmbiVector.h
./Eigen/src/SparseCore/SparseRedux.h ./Eigen/src/SparseCore/SparsePermutation.h
./Eigen/src/Eigenvalues/ComplexEigenSolver.h
./Eigen/src/Eigenvalues/ComplexSchur.h ./Eigen/src/Eigenvalues/RealQZ.h
./Eigen/src/Eigenvalues/HessenbergDecomposition.h
./Eigen/src/Eigenvalues/Tridiagonalization.h
./Eigen/src/Eigenvalues/MatrixBaseEigenvalues.h

./Eigen/src/StlSupport/StdDeque.h ./Eigen/src/StlSupport/StdVector.h
./Eigen/src/StlSupport/details.h ./Eigen/src/SparseQR/SparseQR.h
./Eigen/src/LU/arch/Inverse_SSE.h ./Eigen/src/LU/Determinant.h
./Eigen/src/LU/FullPivLU.h ./Eigen/src/UmfPackSupport/UmfPackSupport.h
./Eigen/src/OrderingMethods/Eigen_Colamd.h ./Eigen/src/QR/HouseholderQR.h
./Eigen/src/QR/FullPivHouseholderQR.h ./Eigen/src/SVD/JacobiSVD.h
./Eigen/src/Geometry/OrthoMethods.h ./Eigen/src/Geometry/AlignedBox.h
./Eigen/src/Geometry/Quaternion.h ./Eigen/src/Geometry/EulerAngles.h
./Eigen/src/Geometry/ParametrizedLine.h ./Eigen/src/Geometry/RotationBase.h
./Eigen/src/Geometry/Umeyama.h ./Eigen/src/Geometry/Homogeneous.h
./Eigen/src/Geometry/Scaling.h ./Eigen/src/Geometry/AngleAxis.h
./Eigen/src/plugins/BlockMethods.h ./Eigen/src/plugins/CommonCwiseUnaryOps.h
./Eigen/src/plugins/MatrixCwiseUnaryOps.h
./Eigen/src/Householder/Householder.h
./Eigen/src/Householder/BlockHouseholder.h ./Eigen/src/Core/VectorBlock.h
./Eigen/src/Core/Ref.h ./Eigen/src/Core/SelfAdjointView.h

```

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./Eigen/src/Core/GlobalFunctions.h ./Eigen/src/Core/MapBase.h
./Eigen/src/Core/GenericPacketMath.h ./Eigen/src/Core/NestByValue.h
./Eigen/src/Core/SolveTriangular.h

./Eigen/src/Core/Fuzzy.h ./Eigen/src/Core/Visitor.h ./Eigen/src/Core/Map.h
./Eigen/src/Core/Diagonal.h ./Eigen/src/Core/StableNorm.h
./Eigen/src/Core/products/Parallelizer.h
./Eigen/src/Core/products/GeneralMatrixMatrixTriangular.h
./Eigen/src/Core/products/GeneralMatrixMatrix.h
./Eigen/src/Core/products/CoeffBasedProduct.h
./Eigen/src/Core/products/SelfadjointMatrixMatrix.h
./Eigen/src/Core/products/SelfadjointRank2Update.h
./Eigen/src/Core/products/GeneralMatrixVector.h
./Eigen/src/Core/Reverse.h ./Eigen/src/Core/BooleanRedux.h
./Eigen/src/Core/arch/Altivec/PacketMath.h
./Eigen/src/Core/arch/SSE/PacketMath.h ./Eigen/src/Core/arch/SSE/Complex.h
./Eigen/src/Core/arch/NEON/PacketMath.h ./Eigen/src/Core/arch/NEON/Complex.h
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./Eigen/src/Core/Swap.h ./Eigen/src/Core/Transpositions.h
./Eigen/src/Core/IO.h ./Eigen/src/Core/SelfCwiseBinaryOp.h
./Eigen/src/Core/Select.h ./Eigen/src/Core/ArrayBase.h
./Eigen/src/Core/DiagonalProduct.h ./Eigen/src/Core/Assign.h
./Eigen/src/Core/ForceAlignedAccess.h ./Eigen/src/Core/BandMatrix.h
./Eigen/src/Core/DenseBase.h ./Eigen/src/Core/Flagged.h

./Eigen/src/Core/ProductBase.h ./Eigen/src/Core/TriangularMatrix.h
./Eigen/src/Core/DiagonalMatrix.h ./Eigen/src/Core/Dot.h
./Eigen/src/Core/PermutationMatrix.h ./Eigen/src/Core/NumTraits.h
./Eigen/src/Core/DenseStorage.h ./Eigen/src/Core/util/Memory.h
./Eigen/src/Core/util/BlasUtil.h ./Eigen/src/Core/util/MatrixMapper.h
./Eigen/src/Core/util/ForwardDeclarations.h ./Eigen/src/Core/util/Meta.h
./Eigen/src/Core/util/Constants.h ./Eigen/src/Core/CwiseNullaryOp.h
./Eigen/src/Core/GeneralProduct.h ./Eigen/src/Core/CommaInitializer.h
./Eigen/src/Core/Stride.h ./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
./Eigen/src/SparseLU/SparseLU_panel_dfs.h
./Eigen/src/SparseLU/SparseLU_panel_bmod.h
./Eigen/src/SparseLU/SparseLU_Uutils.h
./Eigen/src/SparseLU/SparseLU_kernel_bmod.h
./Eigen/src/SparseLU/SparseLU_Memory.h
./Eigen/src/SparseLU/SparseLUImpl.h
./Eigen/src/SparseLU/SparseLU_Structs.h ./Eigen/src/SparseLU/SparseLU.h
./Eigen/src/SparseLU/SparseLU_pruneL.h
./Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h
./Eigen/src/IterativeLinearSolvers/ConjugateGradient.h
./Eigen/src/SparseCholesky/SimplicialCholesky.h ./Eigen/src/Cholesky/LDLT.h
./Eigen/src/CholmodSupport/CholmodSupport.h

./Eigen/src/MetisSupport/MetisSupport.h ./Eigen/StdVector ./Eigen/Core
./Eigen/StdList ./Eigen/StdDeque ./Eigen/SparseCholesky ./scripts/relicense.py
./blas/BandTriangularSolver.h ./blas/PackedTriangularMatrixVector.h

```

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./blas/level2_real_impl.h ./blas/level1_cplx_impl.h ./blas/level1_impl.h
./blas/level3_impl.h ./blas/single.cpp ./blas/level2_cplx_impl.h
./blas/Rank2Update.h ./blas/complex_single.cpp
./blas/double.cpp ./blas/common.h ./blas/level2_impl.h
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./Eigen/src/Eigenvalues/SelfAdjointEigenSolver_MKL.h
./Eigen/src/Eigenvalues/RealSchur_MKL.h ./Eigen/src/LU/arch/Inverse_SSE.h
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```
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applies to: ./test/metis_support.cpp ./test/sparselu.cpp
./unsupported/Eigen/src/IterativeSolvers/IterationController.h
./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h
./Eigen/src/SparseCholesky/SimplicialCholesky_impl.h
```

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--- end of FTL.TXT ---

***** GL ***** Mesa Component

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

SGI SGI Free B

include/GL/glxext.h

GLUT src/ glut/ Mark Kilgard Mark's copyright

GLEW src/ glew-1.13.0 Nigel Stewart Modified BSD Mesa GLU library src/ glu/ mesa/ Paul GNU-LGPL

SGI GLU library src/ glu/ sgi/ SGI SGI Free B

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for the slf4j package

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Headers for the Windows 10 WebAuthn API (webauthn.dll)

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icu

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jsoncpp

Project Homepage: <https://github.com/open-source-parsers/jsoncpp>

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Khronos header files

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Khronos reference front-end for GLSL and ESSL

Project Homepage: <https://github.com/KhronosGroup/glslang>

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LevelDB: A Fast Persistent Key-Value Store

Project Homepage: <https://github.com/google/leveldb.git>

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libaddressinput

Project Homepage: <https://github.com/googlei18n/libaddressinput>

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libavif - Library for encoding and decoding .avif files

Project Homepage: <https://github.com/AOMediaCodec/libavif>

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Files: tests/cJSON.*

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libb7lapi

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libusbx

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Version 2.1, February 1999

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var spline = BezierEasing([0.25, 0.1, 0.25, 1.0]) spline.get(x) => returns easing value | x must be in [0, 1] range

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Nearby Connections Library

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Protocol Buffers

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pyjson5

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pywebsocket3

Project Homepage: <https://github.com/GoogleChromeLabs/pywebsocket3/>

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Quick Color Management System

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re2 - an efficient, principled regular expression library

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Recurrent neural network for audio noise reduction

Project Homepage: <https://github.com/xiph/rnnoise>

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Secure Message

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Shaka Player

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Simple Homomorphic Encryption Library with Lattices

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Snappy: A fast compressor/decompressor

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Project Homepage: <https://github.com/KhronosGroup/SPIRV-Headers.git>

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usrsrcpt

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V8 JavaScript Engine

Project Homepage: <http://code.google.com/p/v8>

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valgrind

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Vulkan API headers

Project Homepage: <https://github.com/KhronosGroup/Vulkan-Headers>

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VulkanMemoryAllocator

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WDS

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Web Animations JS

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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 library 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 program or application program. However, in a textual and legal sense, the executable is a combined work, a

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, so most developers did not use the libraries. We concluded that weaker conditions 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. This Library General Public License is intended to permit developers of 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 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 from the library, while the latter only works together with the library.

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use 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, work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, "work" 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 code for all modules it contains, plus any associated interface definition 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 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 program does and what the program that uses the Library does.

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

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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 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 same sections as part of a whole which is a work based on the Library, the whole must be on the terms of this License, whose permissions for other parts extend to the entire whole, and thus to each and every part regardless of who it is. 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 the distribution of derivative or collective works based on the Library. In the mere aggregation of another work not based on the Library with the Library (or

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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 of Sections 1 and 2 above provided that you accompany it with the complete machine-readable source code, which must be distributed under the terms of 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 from the same place satisfies the requirement to distribute the source code, though third parties are not compelled to copy the source along with the object

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 it, is called a "work that uses the Library". Such a work, in isolation, is not derivative work of the Library, and therefore falls outside the scope of this However, linking a "work that uses the Library" with the Library

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

6. As an exception to the Sections above, you may also compile or

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Version 2.1, February 1999

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effectively restrict the users of a free program by obtaining a restrictive from a patent holder. Therefore, we insist that any patent license obtained for version of the library must be consistent with the full freedom of use in this license.

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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 Library has the freedom and the wherewithal to run that program using a version of 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 code for all modules it contains, plus any associated interface definition plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of to be supplied by an application program that uses the facility, other than an argument passed when the facility is invoked, then you must make a good effort to ensure that, in the event an application does not supply such or table, the facility still operates, and performs whatever part of its remains meaningful. (For example, a function in a library to compute square has a purpose that is entirely well-defined independent of the application. Subsection 2d requires that any application-supplied function or table used this function must be optional: if the application does not supply it, the root function must still compute square roots.)

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

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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 of the Library even though the source code is not. Whether this is true is significant if the work can be linked without the Library, or if the work is 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 (less than 100 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 with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the user'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 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 with the Library, with the complete machine-readable "work that uses the Library" as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.) b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library if the user installs one, as long as the modified version is compatible with the version that the work was made with. c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials in Subsection 6a, above, for a charge no more than the cost of performing distribution. d) If distribution of the work is made by offering access to the work from a designated place, offer equivalent access to copy the above specified work from the same place. e) Verify that the user has already received a copy of the 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 in an executable that you distribute.

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WebM container parser and writer.

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WebP image encoder/decoder

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Weston - reference Wayland compositor

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woff2

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Wuffs (Wrangling Untrusted File Formats Safely)

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xdg-user-dirs

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zlib

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- util-macros-1.19.3: COPYING
- volume-key-0.3.12: COPYING
- vulkan-headers-1.3.204.1: LICENSE.txt
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```

```
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```
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```
=====
alsa-lib-1.2.6.1: src/socket.c, 9-24
=====
```

```
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*
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```

```
=====
alsa-ucm-conf-1.2.6.3: LICENSE
=====
```

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```
=====
attr-2.5.1: doc/COPYING
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```

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```

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

Ty Coon, President of Vice

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```
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attr-2.5.1: tools/attr.c, 1-17  
=====
```

```
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 */
```

```
=====  
attr-2.5.1: libattr/libattr.c, 1-17  
=====
```

```
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 */
```

```
=====  
avahi-0.8: LICENSE  
=====
```

```

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```

```
=====
```

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```
=====
avahi-0.8: avahi-common/address.h, 1-25
=====
```

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

```
/**
```

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

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```
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA.
***/

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

#include <inttypes.h>

=====
avahi-0.8: avahi-core/dns.h, 1-23
=====

#ifndef foodnshfoo
#define foodnshfoo

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 ***/

#include "rr.h"

=====
avahi-0.8: avahi-daemon/main.c, 1-21
=====

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***/

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

```
=====
avahi-0.8: avahi-client/client.h, 1-23
=====
```

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

/**

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***/

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

```
=====
base-passwd-3.5.29: COPYING
=====
```

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```

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```
=====
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binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
bzip2-1.0.8: COPYING
cairo-1.16.0: util/cairo-trace/COPYING-GPL-3
dosfstools-4.2: COPYING
elfutils-0.186: COPYING
```

```

gawk-5.1.1: COPYING
gcc-runtime-11.4.0: COPYING3
gdb-11.2: COPYING3
gmp-6.2.1: COPYING
haveged-1.9.18: COPYING
libgcc-11.4.0: COPYING3
qtbase-5.15.13+git: LICENSE.GPL3
qtdeclarative-5.15.13+git: LICENSE.GPL3
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xz-5.2.6: COPYING.GPLv3

```

```
=====
```

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

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

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

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

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

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

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

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

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

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

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

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

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

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

```
=====  
binutils-2.38: COPYING.LIB  
gdb-11.2: COPYING.LIB  
=====
```

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Version 2, June 1991

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

Preamble

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if you want it, that you can change the software or use pieces of it
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code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright

the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the

Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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```

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

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```
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binutils-2.38: COPYING3.LIB
```


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Version 3, 29 June 2007

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

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Julian Seward, Cambridge, UK.
 jseward@bzip.org
 bzip2/libbzip2 version 1.0.4 of 20 December 2006

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

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Source: http://ftp.debian.org/debian/pool/main/c/ca-certificates/

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```
=====
coreutils-9.0: src/ls.c, 1-15
=====
```

```
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```

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```
=====
cpprest-2.10.18: license.txt
=====
```

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```
=====
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```

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```
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```

```
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=====
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Theodore Ts'o
23-June-2007

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```

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

That's all there is to it!

```
=====
e2fsprogs-1.46.5: lib/ext2fs/ext2fs.h, 1-9
=====
```

```
/*
```

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

=====
e2fsprogs-1.46.5: lib/e2p/e2p.h, 1-7
=====

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

=====
e2fsprogs-1.46.5: lib/uuid/uuid.h.in, 1-32
=====

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

```
=====
e2fsprogs-1.46.5: lib/uuid/COPYING
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=====
```

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```

```
=====
e2fsprogs-1.46.5: lib/et/et_name.c, 1-11
=====
```

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```

```
=====
e2fsprogs-1.46.5: lib/ss/ss.h, 1-20
=====
```

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

```
=====
elfutils-0.186: debuginfod/debuginfod-client.c, 1-27
=====
```

```
/* Retrieve ELF / DWARF / source files from the debuginfod.
   Copyright (C) 2019-2021 Red Hat, Inc.
   This file is part of elfutils.
```

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it under the terms of either
```

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* the GNU Lesser General Public License as published by the Free
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   your option) any later version
```

```
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```

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```
=====
file-5.41: COPYING, 2-
=====
```

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=====
```

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```
=====
flac-1.3.4: src/Makefile.am, 1-17
=====
```

```
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#
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```

```
=====
flac-1.3.4: src/flac/main.c, 1-18
=====
```

```

/* flac - Command-line FLAC encoder/decoder
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 *
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```

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

That's all there is to it!

```
=====
flac-1.3.4: src/plugin_common/all.h, 1-18
=====
```

```
/* plugin_common - Routines common to several plugins
 * Copyright (C) 2002-2009 Josh Coalson
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 *
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*/

```

```

=====
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```

```

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```

```

=====
flac-1.3.4: include/FLAC/all.h, 65-70
=====

```

```

* By writing a little code and linking against libFLAC, it is
* relatively easy to add FLAC support to another program.  The

```

```
* library is licensed under <A HREF=" ../license.html">Xiph's BSD license</A>.
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* encoder and plugins is available and is a useful source of
* examples.
```

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```
=====
flex-2.6.4: src/gettext.h, 1-17
=====
```

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

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

```
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*/

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

/*
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 * The algorithm is due to Ron Rivest. This code was
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 *
 * Equivalent code is available from RSA Data Security, Inc.
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 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */

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

/*****
 *
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Version 3.1, 31 March 2009

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```
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```

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```
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```

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```
=====
gdk-pixbuf-2.42.10: COPYING
glib-2.0-2.72.3: COPYING
glib-2.0-2.72.3: gmodule/COPYING
glibc-2.35: COPYING.LIB
libgudev-237: COPYING
libndp-1.8: COPYING
libnsl2-2.0.0: COPYING
librsvg-2.52.10: COPYING.LIB
libtool-2.4.7: libltdl/COPYING.LIB
libxcrypt-4.4.33: COPYING.LIB
lmsensors-3.6.0: COPYING.LGPL
networkmanager-1.36.2: COPYING.LGPL
systemd-250.5: LICENSE.LGPL2.1
util-linux-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
```

xz-5.2.6: COPYING.LGPLv2.1

=====

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Version 2.1, February 1999

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```

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```
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```

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

That's all there is to it!

```
=====
gdk-pixbuf-2.42.10: gdk-pixbuf/gdk-pixbuf.h, 1-26
=====
```

```
/* GdkPixbuf library - Main header file
 *
 * Copyright (C) 1999 The Free Software Foundation
 *
 * Authors: Mark Crichton <crichton@gimp.org>
 *          Miguel de Icaza <miguel@gnu.org>
 *          Federico Mena-Quintero <federico@gimp.org>
 *          Havoc Pennington <hp@redhat.com>
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 */
```

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

```
=====
glib-2.0-2.72.3: glib/glib.h, 4-17
glib-2.0-2.72.3: gmodule/gmodule.h, 4-17
=====
```

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```

```

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```
=====
gnu-efi-3.0.14: gnuEFI/crt0-efi-arm.S, 4-16
gnu-efi-3.0.14: gnuEFI/crt0-efi-aarch64.S, 4-16
=====
```

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```

```
=====
gnu-efi-3.0.14: inc/efishellintf.h, 13-20
=====
```

```
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```

```
=====
gnu-efi-3.0.14: lib/arm/math.c, 2-15
gnu-efi-3.0.14: lib/arm/initplat.c, 2-15
gnu-efi-3.0.14: lib/aarch64/math.c, 2-15
gnu-efi-3.0.14: lib/aarch64/initplat.c, 2-15
=====
```

```

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=====

```

```

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=====

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Version 3, 29 June 2007

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```
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```

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```
=====
gnutls-3.7.4: doc/COPYING.LESSER
kmod-29: COPYING
kmod-29: libkmod/COPYING
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```

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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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Random Hacker.

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

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```
=====
gpgme-1.17.1: src/gpgme.h.in, 1-23
=====
```

```
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 * SPDX-License-Identifier: LGPL-2.1-or-later
 *
 * Generated from gpgme.h.in for @GPGME_CONFIG_HOST@.
 */
```

```
=====
gpgme-1.17.1: src/engine.h, 1-22
=====
```

```
/* engine.h - GPGME engine interface.
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```

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```
#ifndef ENGINE_H
```

```
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=====
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=====
 harfbuzz-4.0.1: src/hb-ucd.cc, 1-15
 =====

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```

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```

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```
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```
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```
=====
keymaps-1.0: keymap.sh, 5-5
=====
```

```
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```

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

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

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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.

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```
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```

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```
=====
libassuan-2.5.6: src/assuan.c, 1-20
=====

/* assuan.c - Global interface (not specific to context).
 * Copyright (C) 2009 Free Software Foundation, Inc.
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 *
```

```

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*/

=====
libassuan-2.5.6: src/assuan-defs.h, 1-20
=====

/* assuan-defs.h - Internal definitions to Assuan
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=====
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=====

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```
=====
libidn2-2.3.2: COPYING.unicode
=====
```

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```
=====  
libidn2-2.3.2: src/idn2.c, 1-16  
=====
```

```
/* idn2.c - command line interface to libidn2  
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```

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```

```
*/
```

```
=====  
libidn2-2.3.2: lib/idn2.h.in, 1-27  
=====
```

```
/* idn2.h - header file for idn2  
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```

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```
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```

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*/

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=====

```

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

```

=====
libjpeg-turbo-2.1.5.1: cdjpeg.h, 1-13
=====

```

```

/*
 * cdjpeg.h
 *

```

```

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

```

```

=====
libjpeg-turbo-2.1.5.1: jpeglib.h, 1-16
=====

```

```

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

```

```

=====
libjpeg-turbo-2.1.5.1: djpeg.c, 1-11
=====

```

```

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 *
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```

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

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

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

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

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

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

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

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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.)

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

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

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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.

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

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

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

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

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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```

```

=====
libtirpc-1.3.2: src/netname.c, 1-27
rpcbind-1.2.6: src/rpcinfo.c, 1-27
=====

```

```

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=====
libunistring-1.0: README, 45-65
=====

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```
=====
libunistring-1.0: doc/libunistring.texi
=====
```

```
\input texinfo          @c -*-texinfo-*-
@comment %**start of header
@setfilename libunistring.info
@documentencoding UTF-8
@settitle GNU libunistring
@finalout
@c Indices:
@c  am = autoconf macro  @amindex
@c  cp = concept         @cindex
@c  fn = function        @findex
@c  tp = type            @tindex
@c Unused predefined indices:
@c  ky = keystroke       @kindex
@c  pg = program         @pindex
@c  vr = variable        @vindex
@defcodeindex am
@syncodeindex am cp
@syncodeindex fn cp
@syncodeindex tp cp
@ifclear texi2html
@firstparagraphindent insert
@end ifclear
@c texi2html-1.76 does not support @arrow{}.
@ifset texi2html
@macro arrow{}
→
@end macro
@end ifset
@comment %**end of header

@include version.texi
```

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

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

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

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

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

```
@end iftex
@ifnottex
@macro texnl
@end macro
@end ifnottex

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

@ifinfo
This manual is for GNU libunistring.

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

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

@ifnohtml
@page
@vskip 0pt plus 1filll
@c @insertcopying
Copyright (C) 2001-2022 Free Software Foundation, Inc.
```

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@end ifnohtml
@end titlepage

@c Table of Contents
@contents

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

@menu

* Introduction::	Who may need Unicode strings?
* Conventions::	Conventions used in this manual
* unitypes.h::	Elementary types
* unistr.h::	Elementary Unicode string functions
* uniconv.h::	Conversions between Unicode and encodings
* unistdio.h::	Output with Unicode strings
* uniname.h::	Names of Unicode characters
* unictype.h::	Unicode character classification and properties
* uniwidth.h::	Display width
* unigrbrk.h::	Grapheme cluster breaking
* uniwbrk.h::	Word breaks in strings
* unilbrk.h::	Line breaking
* uninorm.h::	Normalization forms
* unicast.h::	Case mappings
* uniregex.h::	Regular expressions
* Using the library::	How to link with the library and use it?
* More functionality::	More advanced functionality
* The wchar_t mess::	Why @code{wchar_t *} strings are useless
* The char32_t problem::	Why @code{char32_t *} strings are problematic
* Licenses::	Licenses

```

* Index::                                General Index

@detailmenu
--- The Detailed Node Listing ---

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

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* Creating Unicode strings::
* Copying Unicode strings::
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* Searching for a character::
* Counting characters::

Elementary string functions on NUL terminated strings

* Iterating over a NUL terminated Unicode string::
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* 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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* General category::
* Canonical combining class::
* Bidi class::
* Decimal digit value::
* Digit value::

```

- * Numeric value::
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- * Arabic shaping::
- * Properties::
- * Scripts::
- * Blocks::
- * ISO C and Java syntax::
- * Classifications like in ISO C::

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- * Bit mask API::

Properties

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- * Properties as functions::

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- * Grapheme cluster breaks in a string::
- * Grapheme cluster break property::

uniwbrk.h

- * Word breaks in a string::
- * Word break property::

uninorm.h

- * Decomposition of characters::
- * Composition of characters::
- * Normalization of strings::
- * Normalizing comparisons::
- * Normalization of streams::

unicase,h

- * Case mappings of characters::
- * Case mappings of strings::
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- * Case insensitive comparison::
- * Case detection::

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- * Compiler options::
- * Include files::

```
* Autoconf macro::
* Reporting problems::
```

```
Licenses
```

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

```
@end detailmenu
@end menu
```

```
@node Introduction
@chapter Introduction
```

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

It consists of the following parts:

```
@table @code
@item <unistr.h>
elementary string functions
@item <unicnv.h>
conversion from/to legacy encodings
@item <unistdio.h>
formatted output to strings
@item <uniname.h>
character names
@item <unictype.h>
character classification and properties
@item <uniwidth.h>
string width when using nonproportional fonts
@item <unigbrk.h>
grapheme cluster breaks
@item <uniwbrk.h>
word breaks
@item <unilbrk.h>
line breaking algorithm
@item <uninorm.h>
normalization (composition and decomposition)
@item <unicase.h>
case folding
@item <uniregex.h>
regular expressions (not yet implemented)
@end table
```

```
@cindex use cases
@cindex value, of libunistring
libunistring is for you if your application involves non-trivial text
```


processing, such as upper/lower case conversions, line breaking, operations on words, or more advanced analysis of text. Text provided by the user can, in general, contain characters of all kinds of scripts. The text processing functions provided by this library handle all scripts and all languages.

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

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

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

```
@node Unicode
@section Unicode
```

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

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

```
@cindex UTF-8
@cindex UTF-16
@cindex UTF-32
@cindex UCS-4
@table @asis
@item UTF-8
Every character is represented as 1 to 4 bytes.
@item UTF-16
Every character is represented as 1 to 2 units of 16 bits.
@item UTF-32, a.k.a@. UCS-4
Every character is represented as 1 unit of 32 bits.
@end table
```

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

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

References:

@itemize @bullet

@item

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

@item

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

@item

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

@item

Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{}

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

@end itemize

@node Unicode and i18n

@section Unicode and Internationalization

@cindex internationalization

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

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

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

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

@itemize @bullet

@item

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

@item

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

@item

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

@item

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

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

@end itemize

@node Locale encodings

@section Locale encodings

@cindex locale

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

@cindex locale categories

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

@itemize @bullet

@item

The character encoding and the character properties. This is the

@code{LC_CTYPE} category.

@item

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

@item

The language specific translations of messages. This is the

@code{LC_MESSAGES} category.

@item

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

@item

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

@item

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

@end itemize

@cindex locale encoding

In particular, the @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. @code{`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 glibc
[@url{https://www.gnu.org/software/glibc/}](https://www.gnu.org/software/glibc/).

```
@itemize @bullet
@item
glibc has modules @samp{mbchar}, @samp{mbiter}, @samp{mbuiter} that
represent multibyte characters and allow to iterate across a multibyte
string with the same ease as through a unibyte string.
@item
glibc has functions @func{mbslen} and @func{mbswidth} that can be
used instead of @posixfunc{strlen} when the number of characters or the
number of screen columns of a string is requested.
@item
glibc has functions @func{mbschr} and @func{mbsrchr} that are
like @posixfunc{strchr} and @posixfunc{strrchr}, but work in multibyte locales.
@item
glibc has a function @func{mbsstr}, like @posixfunc{strstr}, but works
in multibyte locales.
@item
glibc has functions @func{mbscspn}, @func{mbspbrk}, @func{mbsspn}
that are like @posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn}, but
work in multibyte locales.
@item
glibc has functions @func{mbssep} and @func{mbstok_r} that are
like @posixfunc{strsep} and @posixfunc{strtok_r} but work in multibyte locales.
@item
glibc has functions @func{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 @code{samp{ulc}_} operate on C strings in locale encoding.

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

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

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

For every function with prefix @code{samp{u8}_}, operating on UTF-8 strings, there is also a corresponding function with prefix @code{samp{u16}_}, operating on UTF-16 strings, and a corresponding function with prefix

@samp{u32_}, operating on UTF-32 strings. Their description is analogous; in this documentation we describe only the function that operates on UTF-8 strings, for brevity.

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

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

@cindex return value conventions

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

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

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

@node Using the library

@chapter Using the library

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

@menu

* Installation::

* Compiler options::

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

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

```
@cindex dependencies
```

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

```
@cindex installation
```

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

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

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

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

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

```
@cindex compiler options
```

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

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

@node Include files
 @section Include files

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

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

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

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

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

@node Autoconf macro
 @section Autoconf macro

@cindex autoconf macro
 GNU Gnulib provides an autoconf macro that tests for the availability of @code{libunistring}. It is contained in the Gnulib module @samp{libunistring}, see@texnl{}
 @url{https://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 `libiconv`, and the options for linking with `libiconv` must be mentioned explicitly on the link command line.

@item

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

@item

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

@end itemize

@node Reporting problems

@section Reporting problems

@cindex bug reports

@cindex bug tracker

@cindex mailing list

If you encounter any problem, please don't hesitate to submit a detailed bug report either in the bug tracker at the project page

[@url{https://savannah.gnu.org/projects/libunistring}](https://savannah.gnu.org/projects/libunistring), or by email to the `bug-libunistring@gnu.org` mailing list.

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

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

@node More functionality

@chapter More advanced functionality

@cindex bidirectional reordering

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

@cindex rendering

For the rendering of Unicode strings outside of the context of a given toolkit (KDE/Qt or GNOME/Gtk), we recommend the Pango library:

[@url{https://www.pango.org/}](https://www.pango.org/).

@include wchar_t.texi

```
@include char32_t.texi
```

```
@node Licenses
```

```
@appendix Licenses
```

```
@cindex Licenses
```

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

```
@itemize @bullet
```

```
@item
```

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```
@itemize @bullet
```

```
@item @minus{}
```

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```
@item @minus{}
```

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```
@item @minus{}
```

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```
@end itemize
```

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```
@*
```

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```
@*
```

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```
@item
```

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```
@*
```

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```
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```

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```

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@end itemize

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

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

@node Index
@unnumbered Index

@printindex cp

@bye

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

=====
libunwind-1.6.2: COPYING
=====

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```

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```
=====
libva-initial-2.14.0: COPYING
=====
```

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```
=====
libvncserver-0.9.13: COPYING
=====
```

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

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```
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```

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```
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`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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```
=====
libvorbis-1.3.7: COPYING
=====
```

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```
=====  
libvorbis-1.3.7: include/vorbis/vorbisenc.h, 1-11  
=====
```

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

```
=====  
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```
=====
linux-firmware-20231211: LICENCE.agere
=====
```

```
agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin  -- 9.48 Hermes I
```

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

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

Hope this helps.

Sincerely,

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

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```
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```

```
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```
=====
linux-firmware-20231211: LICENSE.dib0700
=====
```

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linux-firmware-20231211: LICENCE.ene_firmware

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```

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```
=====
linux-firmware-20231211: LICENCE.go7007
=====
```

The README file from the original package from Micronas appears below. Only

the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

WIS GO7007SB Public Linux Driver

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

0. OVERVIEW AND LICENSING/DISCLAIMER

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

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1. SYSTEM REQUIREMENTS

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

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

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

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

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

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

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

2. COMPILING AND INSTALLING THE DRIVER

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

```
$ make
```

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

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

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

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

```
$ make install
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. TESTING THE DRIVER

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

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

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

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

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

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

5. USING THE DRIVER

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

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

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

```
GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS
```

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not

set to MPEG format, the EINVAL error code will be returned.

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

Fields in struct `go7007_comp_params`:

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

Flags in struct `go7007_comp_params`:

<pre>GO7007_COMP_CLOSED_GOP</pre>	<p>Only produce self-contained GOPs, used to produce streams appropriate for random seeking.</p>
<pre>GO7007_COMP_OMIT_SEQ_HEADER</pre>	<p>Omit the stream sequence header.</p>

`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-20231211: LICENCE.siano
=====
```

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

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```
=====
linux-firmware-20231211: LICENCE.ti-keystone
=====
```

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```
=====
linux-firmware-20231211: LICENCE.ueagle-atm4-firmware
=====
```

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

```
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=====
linux-firmware-20231211: LICENCE.via_vt6656
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=====
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```
=====
linux-firmware-20231211: LICENCE.wl1251
=====
```

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```
=====
linux-firmware-20231211: 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-20231211: LICENCE.xc5000
=====
```

The following XC5000 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000_firmwares_32000Khz.h".

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

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```
=====
linux-firmware-20231211: LICENCE.xc5000c
=====
```

The following XC500C firmware file "dvb-fe-xc5000C-4.1.30.7.fw" was created based on "Xc5200_firmwares_32000Khz.h".

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

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```
=====
linux-firmware-20231211: WHENCE
=====
```

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

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

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

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

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

Licence: Redistributable. See LICENCE.cypress for details.

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

File: korg/k1212.dsp

Licence: Unknown

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

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

File: ess/maestro3_assp_kernel.fw

File: ess/maestro3_assp_minisrc.fw

Licence: Unknown

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

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

File: yamaha/ds1_ctrl.fw

File: yamaha/ds1_dsp.fw

File: yamaha/ds1e_ctrl.fw

Licence: Unknown

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

Driver: advansys - AdvanSys SCSI

File: advansys/mcode.bin

File: advansys/3550.bin

File: advansys/38C0800.bin

File: advansys/38C1600.bin

Licence: BSD, no source available.

Found in hex form in kernel source.

Driver: qlal280 - Qlogic QLA 1240/1x80/1x160 SCSI support

File: qllogic/1040.bin

File: qllogic/1280.bin

File: qllogic/12160.bin

Licence: Redistributable. See LICENCE.qlal280 for details

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.

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Driver: keyspan_pda -- USB Keyspan PDA single-port serial device

File: keyspan_pda/keyspan_pda.fw
Source: keyspan_pda/keyspan_pda.S

File: keyspan_pda/xircom_pgs.fw
Source: keyspan_pda/xircom_pgs.S

Source: keyspan_pda/Makefile

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

Compiled from original 8051 source into Intel HEX, used in our binary ihex form.

Driver: emi26 -- EMI 2|6 USB Audio interface

File: emi26/bitstream.fw
Version: 1.1.1.131
Info: DATE=2001dec06

File: emi26/firmware.fw
Version: 1.0.2.916
Info: DATE=12.02.2002

File: emi26/loader.fw

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

Original licence information:

```
/*
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 *
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 * Emagic EMI 2|6 Audio Interface. Distribution and/or Modification of
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 * 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:
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Found in hex form in kernel source.

Driver: ti_usb_3410_5052 -- Multi-Tech USB cell modems

File: mts_cdma.fw

File: mts_gsm.fw

File: mts_edge.fw

Licence: "all firmware components are redistributable in binary form"
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: 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

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*

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Driver: vicam -- USB 3com HomeConnect (aka vicam)

File: vicam/firmware.fw

Licence: Unknown

Found in hex form in kernel source.

Driver: io_edgeport - USB Inside Out Edgeport Serial Driver

File: edgeport/boot.fw
 File: edgeport/boot2.fw
 File: edgeport/down.fw
 File: edgeport/down2.fw

Licence: Allegedly GPLv2+, but no source visible. Marked:
 //*****
 /* Edgeport/4 Binary Image
 /* Generated by HEX2C v1.06
 /* Copyright (C) 1998 Inside Out Networks, All rights reserved.
 //*****

Found in hex form in kernel source.

Driver: io_ti - USB Inside Out Edgeport Serial Driver
 (TI Devices)

File: edgeport/down3.bin

Licence:
 //*****
 /* Edgeport Binary Image (for TI based products)
 /* Generated by TIBin2C v2.00 (watchport)
 /* Copyright (C) 2001 Inside Out Networks, All rights reserved.
 //*****

Found in hex form in kernel source.

Driver: dsp56k - Atari DSP56k support

File: dsp56k/bootstrap.bin
 Source: dsp56k/bootstrap.asm
 Source: dsp56k/Makefile
 Source: dsp56k/concat-bootstrap.pl

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

DSP56001 assembler, buildable with a56 from
<http://www.zdomain.com/a56.html>

Driver: snd-sb16-csp - Sound Blaster 16/AWE CSP support

File: sb16/mulaw_main.csp
 File: sb16/alaw_main.csp

File: sb16/ima_adpcm_init.csp
File: sb16/ima_adpcm_playback.csp
File: sb16/ima_adpcm_capture.csp

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```
/*  
 * 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

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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

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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

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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/oasisrcvcode.sys

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This firmware may not be modified.

Found in hex form in kernel source.

Driver: sxdg - Alacritech IS-NIC products

File: sxdg/saharadownloadB.sys

File: sxdg/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

Licence:

```
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```

Found in hex form in kernel source.

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

File: cxgb4/t4fw-1.14.4.0.bin

File: cxgb4/t4fw-1.15.37.0.bin

File: cxgb4/t4fw-1.27.5.0.bin

Link: cxgb4/t4fw.bin -> t4fw-1.27.5.0.bin

File: cxgb4/t5fw-1.14.4.0.bin

File: cxgb4/t5fw-1.15.37.0.bin

File: cxgb4/t5fw-1.27.5.0.bin

Link: cxgb4/t5fw.bin -> t5fw-1.27.5.0.bin

File: cxgb4/t6fw-1.27.5.0.bin

Link: cxgb4/t6fw.bin -> t6fw-1.27.5.0.bin

File: cxgb4/aq1202_fw.cld

File: cxgb4/bcm8483.bin

File: cxgb4/configs/t4-config-default.txt

File: cxgb4/configs/t5-config-default.txt

File: cxgb4/configs/t6-config-default.txt

File: cxgb4/configs/t5-config-hashfilter.txt

File: cxgb4/configs/t6-config-hashfilter.txt

Link: cxgb4/t4-config.txt -> configs/t4-config-default.txt

Link: cxgb4/t5-config.txt -> configs/t5-config-default.txt

Link: cxgb4/t6-config.txt -> configs/t6-config-default.txt

Licence: Redistributable. See LICENCE.chelsio_firmware for details

Driver: e100 -- Intel PRO/100 Ethernet NIC

File: e100/d101m_ucose.bin

File: e100/d101s_ucose.bin

File: e100/d102e_ucose.bin

Licence: Redistributable. See LICENCE.e100 for details

Driver: acenic -- Alteon AceNIC Gigabit Ethernet card

File: acenic/tg1.bin

File: acenic/tg2.bin

Licence: Unknown

Found in hex form in kernel source, but source allegedly available at
<http://alteon.shareable.org/>

Driver: tg3 -- Broadcom Tigon3 based gigabit Ethernet cards

File: tigon/tg3.bin

File: tigon/tg3_tso.bin

File: tigon/tg3_tso5.bin

File: tigon/tg357766.bin

Licence:

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*

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* notice is accompanying it.

Found in hex form in kernel source.

Driver: starfire - Adaptec Starfire/DuraLAN support

File: adaptec/starfire_rx.bin

File: adaptec/starfire_tx.bin

Licence: Allegedly GPLv2, but no source visible.

Found in hex form in kernel source, with the following notice:

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

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

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

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

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

File: lbtf_usb.bin
Version: 5.132.3.p1

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

Licence: Redistributable. See LICENCE.OLPC for details.

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

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

File: mw18k/fmimage_8687.fw
File: mw18k/helper_8687.fw
File: mw18k/fmimage_8366.fw
File: mw18k/fmimage_8366_ap-1.fw
File: mw18k/fmimage_8366_ap-2.fw
File: mw18k/fmimage_8366_ap-3.fw
Version: 5.2.8.16
File: mw18k/helper_8366.fw

File: mw18k/fmimage_8764_ap-1.fw
Version: 7.4.0.9

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

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

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

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

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

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

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

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

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

File: mrvl/sd8887_uapsta.bin

Version: W15.68.7.p189

File: mrvl/sd8801_uapsta.bin

Version: W14.68.36.p204

File: mrvl/usb8801_uapsta.bin

Version: W14.68.36.p138

File: mrvl/pcieuart8997_combo_v4.bin

Version: W16.68.1.p179

File: mrvl/pcieusb8997_combo_v4.bin

Version: W16.68.10.p159.1

File: mrvl/pcie8997_wlan_v4.bin

Version: W16.68.10.p159.1

File: mrvl/usbusb8997_combo_v4.bin

Version: W16.68.1.p183

File: mrvl/sdsd8997_combo_v4.bin

Version: W16.68.1.p179

File: mrvl/sdsd8977_combo_v2.bin

Version: W16.68.1.p195

Licence: Redistributable. See LICENCE.NXP for details.

Originates from <https://github.com/NXP/mwifiex-firmware.git>

Driver: iwlwifi - Intel Wireless Wifi

File: iwlwifi-3945-2.ucode

Version: 15.32.2.9

File: iwlwifi-4965-2.ucode

Version: 228.61.2.24

File: iwlwifi-5000-5.ucode

Version: 8.83.5.1

File: iwlwifi-5150-2.ucode

Version: 8.24.2.2

File: iwlwifi-1000-5.ucode

Version: 39.31.5.1

File: iwlwifi-6000-4.ucode

Version: 9.221.4.1

File: iwlwifi-6050-5.ucode
Version: 41.28.5.1

File: iwlwifi-6000g2a-6.ucode
Version: 18.168.6.1

File: iwlwifi-6000g2b-6.ucode
Version: 18.168.6.1

File: iwlwifi-135-6.ucode
Version: 18.168.6.1

File: iwlwifi-100-5.ucode
Version: 39.31.5.1

File: iwlwifi-105-6.ucode
Version: 18.168.6.1

File: iwlwifi-2030-6.ucode
Version: 18.168.6.1

File: iwlwifi-2000-6.ucode
Version: 18.168.6.1

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

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

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

File: iwlwifi-7265D-29.ucode
Version: 29.f2390aa8.0

File: iwlwifi-3168-29.ucode
Version: 29.0bd893f3.0

File: iwlwifi-8000C-34.ucode
Version: 34.610288.0

File: iwlwifi-8000C-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-8265-34.ucode
Version: 34.610288.0

File: iwlwifi-8265-36.ucode
Version: 36.ca7b901d.0

File: iwlwifi-9000-pu-b0-jf-b0-34.ucode
Version: 34.ba501b11.0

File: iwlwifi-9000-pu-b0-jf-b0-38.ucode
Version: 38.755cfdd8.0

File: iwlwifi-9000-pu-b0-jf-b0-46.ucode
Version: 46.ff18e32a.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-b0-46.ucode
Version: 46.ff18e32a.0

File: iwlwifi-cc-a0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-b0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-Qu-c0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-hr-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-QuZ-a0-jf-b0-50.ucode
Version: 50.3e391d3e.0

File: iwlwifi-cc-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-b0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-Qu-c0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-hr-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-QuZ-a0-jf-b0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-so-a0-gf-a0.pnvm

File: iwlwifi-so-a0-gf4-a0.pnvm

File: iwlwifi-ty-a0-gf-a0-59.ucode
Version: 59.601f3a66.0

File: iwlwifi-cc-a0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-b0-hr-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-b0-jf-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-c0-hr-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-Qu-c0-jf-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-QuZ-a0-hr-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-QuZ-a0-jf-b0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-ty-a0-gf-a0-66.ucode
Version: 66.f1c864e0.0

File: iwlwifi-cc-a0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-Qu-b0-hr-b0-72.ucode
Version: 72.daa05125.0

File: iwlwifi-Qu-b0-jf-b0-72.ucose
Version: 72.daa05125.0

File: iwlwifi-Qu-c0-hr-b0-72.ucose
Version: 72.daa05125.0

File: iwlwifi-Qu-c0-jf-b0-72.ucose
Version: 72.daa05125.0

File: iwlwifi-QuZ-a0-hr-b0-72.ucose
Version: 72.daa05125.0

File: iwlwifi-QuZ-a0-jf-b0-72.ucose
Version: 72.daa05125.0

File: iwlwifi-ty-a0-gf-a0-72.ucose
Version: 72.a764baac.0

File: iwlwifi-so-a0-gf4-a0-72.ucose
Version: 72.a764baac.0

File: iwlwifi-so-a0-gf-a0-72.ucose
Version: 72.a764baac.0

File: iwlwifi-so-a0-hr-b0-72.ucose
Version: 72.daa05125.0

File: iwlwifi-so-a0-jf-b0-72.ucose
Version: 72.daa05125.0

File: iwlwifi-cc-a0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-b0-hr-b0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-b0-jf-b0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-c0-hr-b0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-Qu-c0-jf-b0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-QuZ-a0-hr-b0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-QuZ-a0-jf-b0-73.ucose
Version: 73.35c0a2c6.0

File: iwlwifi-ty-a0-gf-a0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-gf4-a0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-gf-a0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-hr-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-so-a0-jf-b0-73.ucode
Version: 73.35c0a2c6.0

File: iwlwifi-cc-a0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-Qu-b0-hr-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-Qu-b0-jf-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-Qu-c0-hr-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-Qu-c0-jf-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-QuZ-a0-hr-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-QuZ-a0-jf-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-ty-a0-gf-a0-74.ucode
Version: 74.fe17486e.0

File: iwlwifi-so-a0-gf4-a0-74.ucode
Version: 74.fe17486e.0

File: iwlwifi-so-a0-gf-a0-74.ucode
Version: 74.fe17486e.0

File: iwlwifi-so-a0-hr-b0-74.ucode
Version: 74.a5e9588b.0

File: iwlwifi-so-a0-jf-b0-74.ucode

Version: 74.a5e9588b.0

File: iwlwifi-cc-a0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-Qu-b0-hr-b0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-Qu-b0-jf-b0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-Qu-c0-hr-b0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-Qu-c0-jf-b0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-QuZ-a0-hr-b0-77.ucode
Version: 74.ad46c98b.0

File: iwlwifi-QuZ-a0-jf-b0-77.ucode
Version: 74.206b0184.0

File: iwlwifi-ty-a0-gf-a0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-ty-a0-gf-a0-78.ucode
Version: 75.3bfdc55f.0

File: iwlwifi-ty-a0-gf-a0-79.ucode
Version: 76.27f1c37b.0

File: iwlwifi-ty-a0-gf-a0-81.ucode
Version: 78.31fc9ae6.0

File: iwlwifi-ty-a0-gf-a0-83.ucode
Version: 80.e8f84e98.0

File: iwlwifi-ty-a0-gf-a0-84.ucode
Version: 81.8e5c544c.0

File: iwlwifi-ty-a0-gf-a0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-so-a0-gf4-a0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-so-a0-gf4-a0-78.ucode
Version: 75.3bfdc55f.0

File: iwlwifi-so-a0-gf4-a0-79.unicode
Version: 76.27f1c37b.0

File: iwlwifi-so-a0-gf4-a0-81.unicode
Version: 78.31fc9ae6.0

File: iwlwifi-so-a0-gf4-a0-83.unicode
Version: 80.e8f84e98.0

File: iwlwifi-so-a0-gf4-a0-84.unicode
Version: 81.8e5c544c.0

File: iwlwifi-so-a0-gf4-a0-86.unicode
Version: 83.fb5c9aeb.0

File: iwlwifi-so-a0-gf-a0-77.unicode
Version: 74.f92b5fed.0

File: iwlwifi-so-a0-gf-a0-78.unicode
Version: 74.3bfdc55f.0

File: iwlwifi-so-a0-gf-a0-79.unicode
Version: 75.27f1c37b.0

File: iwlwifi-so-a0-gf-a0-81.unicode
Version: 78.31fc9ae6.0

File: iwlwifi-so-a0-gf-a0-83.unicode
Version: 80.e8f84e98.0

File: iwlwifi-so-a0-gf-a0-84.unicode
Version: 81.8e5c544c.0

File: iwlwifi-so-a0-gf-a0-86.unicode
Version: 83.fb5c9aeb.0

File: iwlwifi-so-a0-hr-b0-77.unicode
Version: 74.f92b5fed.0

File: iwlwifi-so-a0-hr-b0-79.unicode
Version: 75.27f1c37b.0

File: iwlwifi-so-a0-hr-b0-81.unicode
Version: 78.31fc9ae6.0

File: iwlwifi-so-a0-hr-b0-83.unicode
Version: 80.e8f84e98.0

File: iwlwifi-so-a0-hr-b0-84.unicode
Version: 81.8e5c544c.0

File: iwlwifi-so-a0-hr-b0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-so-a0-jf-b0-77.ucode
Version: 74.f92b5fed.0

File: iwlwifi-ty-a0-gf-a0.pnvm

File: iwlwifi-gl-c0-fm-c0-83.ucode
Version: 80.d24e06ed.0

File: iwlwifi-gl-c0-fm-c0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-gl-c0-fm-c0.pnvm

File: iwlwifi-ma-b0-gf-a0-83.ucode
Version: 80.d24e06ed.0

File: iwlwifi-ma-b0-gf-a0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-ma-b0-gf-a0.pnvm

File: iwlwifi-ma-b0-gf4-a0-83.ucode
Version: 80.d24e06ed.0

File: iwlwifi-ma-b0-gf4-a0-86.ucode
Version: 83.fb5c9aeb.0

File: iwlwifi-ma-b0-gf4-a0.pnvm

File: iwlwifi-ma-b0-hr-b0-83.ucode
Version: 80.d24e06ed.0

File: iwlwifi-ma-b0-hr-b0-86.ucode
Version: 83.fb5c9aeb.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: ixp4xx-npe - Intel IXP4xx XScale Network Processing Engine (NPE) Firmware
File: ixp4xx/NPE-A
File: ixp4xx/NPE-A-HSS
File: ixp4xx/NPE-B
File: ixp4xx/NPE-C
Version: date = February 26, 2007
License: Redistributable. See LICENSE.ixp4xx for details

Driver: tehuti - Tehuti Networks 10G Ethernet

File: tehuti/bdx.bin

Licence:

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Found in hex form in kernel source.

Driver: typhoon - 3cr990 series Typhoon

File: 3com/typhoon.bin

Licence:

```
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Driver: yam - YAM driver for AX.25

File: yam/1200.bin

File: yam/9600.bin

Licence:

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Found in hex form in kernel source.

Driver: pcnet_cs - NE2000 compatible PCMCIA adapter

File: cis/LA-PCM.cis

File: cis/PCMLM28.cis

File: cis/DP83903.cis

File: cis/NE2K.cis

File: cis/tamarack.cis

File: cis/PE-200.cis

File: cis/PE520.cis

Source: cis/

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project

Copyright (C) 1998, 1999, 2000 David A. Hinds

Driver: 3c589_cs - 3Com PCMCIA adapter

File: cis/3CXEM556.cis
Source: cis/src/3CXEM556.cis

Licence: Dual GPLv2/MPL

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Driver: 3c574_cs - 3Com PCMCIA adapter

File: cis/3CCFEM556.cis
Source: cis/src/3CCFEM556.cis

Licence: Dual GPLv2/MPL

Originally developed by the pcmcia-cs project
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Driver: serial_cs - Serial PCMCIA adapter

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

Licence: Dual GPLv2/MPL

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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: cx231xx - Conexant Cx23100/101/102 USB broadcast A/V decoder

File: v4l-cx231xx-avcore-01.fw

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

Driver: cx23885 - Conexant PCI Express Broadcast A/V decoder

File: v4l-cx23885-avcore-01.fw

Driver: cx23840 - Conexant sideport Broadcast A/V decoder

File: v4l-cx25840.fw

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Driver: qlomicpti - PTI Qlogic, ISP Driver

File: qlomic/ispl000.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: myri_sbus - MyriCOM Gigabit Ethernet

File: myricom/lanai.bin

Licence: Unknown

Found in hex form in kernel source.

Driver: bnx2x: Broadcom Everest

File: bnx2x/bnx2x-e1-7.13.1.0.fw

File: bnx2x/bnx2x-e1-7.13.11.0.fw

File: bnx2x/bnx2x-e1-7.13.15.0.fw

File: bnx2x/bnx2x-e1-7.13.21.0.fw

File: bnx2x/bnx2x-e1h-7.13.1.0.fw

File: bnx2x/bnx2x-e1h-7.13.11.0.fw

File: bnx2x/bnx2x-e1h-7.13.15.0.fw

File: bnx2x/bnx2x-e1h-7.13.21.0.fw

File: bnx2x/bnx2x-e2-7.13.1.0.fw

File: bnx2x/bnx2x-e2-7.13.11.0.fw

File: bnx2x/bnx2x-e2-7.13.15.0.fw

File: bnx2x/bnx2x-e2-7.13.21.0.fw

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Driver: bnx2 - Broadcom NetXtremeII

File: bnx2/bnx2-mips-06-6.2.3.fw

File: bnx2/bnx2-mips-09-6.2.1b.fw

File: bnx2/bnx2-rv2p-06-6.0.15.fw

File: bnx2/bnx2-rv2p-09-6.0.17.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.

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

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

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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: mediatek/mt7601u.bin
Version: 34
Link: mt7601u.bin -> mediatek/mt7601u.bin

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

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

Driver: rt2860sta - Ralink RT3090 wireless MACs

Link: rt3090.bin -> rt2860.bin

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

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

File: rt2870.bin

Version: 36

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

Driver: rt2870sta - Ralink RT2870, RT3070, RT3071 wireless MACs

Link: rt3070.bin -> rt2870.bin

File: rt3071.bin

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

rt3071.bin is a copy of bytes 4096-8191 of rt2870.bin for compatibility.

Driver: usbdx/usbdxfast/usbdxsigma - usbdx data acquisition cards

File: usbdx_firmware.bin

File: usbdxfast_firmware.bin

File: usbdxsigma_firmware.bin

Source: usbdx/

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 LICENCE.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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Driver: r128 - ATI Rage 128

File: r128/r128_cce.bin

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Driver: radeon - ATI Radeon

File: radeon/R100_cp.bin
File: radeon/R200_cp.bin
File: radeon/R300_cp.bin
File: radeon/R420_cp.bin
File: radeon/RS600_cp.bin
File: radeon/RS690_cp.bin
File: radeon/R520_cp.bin
File: radeon/R600_pfp.bin
File: radeon/R600_me.bin
File: radeon/RV610_pfp.bin
File: radeon/RV610_me.bin
File: radeon/RV630_pfp.bin
File: radeon/RV630_me.bin
File: radeon/RV620_pfp.bin
File: radeon/RV620_me.bin
File: radeon/RV635_pfp.bin
File: radeon/RV635_me.bin
File: radeon/RV670_pfp.bin
File: radeon/RV670_me.bin
File: radeon/RS780_pfp.bin
File: radeon/RS780_me.bin
File: radeon/RV770_pfp.bin
File: radeon/RV770_me.bin
File: radeon/RV730_pfp.bin
File: radeon/RV730_me.bin
File: radeon/RV710_pfp.bin
File: radeon/RV710_me.bin

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Found in hex form in kernel source.

Driver: radeon - ATI Radeon

File: radeon/R600_rlc.bin
File: radeon/R600_uvd.bin
File: radeon/RS780_uvd.bin
File: radeon/R700_rlc.bin
File: radeon/RV710_uvd.bin
File: radeon/RV710_smc.bin
File: radeon/RV730_smc.bin
File: radeon/RV740_smc.bin
File: radeon/RV770_smc.bin
File: radeon/RV770_uvd.bin
File: radeon/CEDAR_me.bin
File: radeon/CEDAR_pfp.bin
File: radeon/CEDAR_rlc.bin
File: radeon/CEDAR_smc.bin
File: radeon/CYPRESS_me.bin
File: radeon/CYPRESS_pfp.bin
File: radeon/CYPRESS_rlc.bin
File: radeon/CYPRESS_uvd.bin
File: radeon/CYPRESS_smc.bin
File: radeon/JUNIPER_me.bin
File: radeon/JUNIPER_pfp.bin
File: radeon/JUNIPER_rlc.bin
File: radeon/JUNIPER_smc.bin
File: radeon/REDWOOD_me.bin
File: radeon/REDWOOD_pfp.bin
File: radeon/REDWOOD_rlc.bin
File: radeon/REDWOOD_smc.bin
File: radeon/PALM_me.bin
File: radeon/PALM_pfp.bin
File: radeon/SUMO_rlc.bin
File: radeon/SUMO_uvd.bin
File: radeon/BARTS_mc.bin
File: radeon/BARTS_me.bin
File: radeon/BARTS_pfp.bin
File: radeon/BARTS_smc.bin
File: radeon/BTC_rlc.bin
File: radeon/CAICOS_mc.bin
File: radeon/CAICOS_me.bin

File: radeon/CAICOS_pfp.bin
File: radeon/CAICOS_smc.bin
File: radeon/TURKS_mc.bin
File: radeon/TURKS_me.bin
File: radeon/TURKS_pfp.bin
File: radeon/TURKS_smc.bin
File: radeon/CAYMAN_mc.bin
File: radeon/CAYMAN_me.bin
File: radeon/CAYMAN_pfp.bin
File: radeon/CAYMAN_rlc.bin
File: radeon/CAYMAN_smc.bin
File: radeon/SUMO_pfp.bin
File: radeon/SUMO_me.bin
File: radeon/SUMO2_pfp.bin
File: radeon/SUMO2_me.bin
File: radeon/ARUBA_me.bin
File: radeon/ARUBA_pfp.bin
File: radeon/ARUBA_rlc.bin
File: radeon/PITCAIRN_ce.bin
File: radeon/PITCAIRN_mc.bin
File: radeon/PITCAIRN_mc2.bin
File: radeon/PITCAIRN_me.bin
File: radeon/PITCAIRN_pfp.bin
File: radeon/PITCAIRN_rlc.bin
File: radeon/PITCAIRN_smc.bin
File: radeon/TAHITI_ce.bin
File: radeon/TAHITI_mc.bin
File: radeon/TAHITI_mc2.bin
File: radeon/TAHITI_me.bin
File: radeon/TAHITI_pfp.bin
File: radeon/TAHITI_rlc.bin
File: radeon/TAHITI_uvd.bin
File: radeon/TAHITI_smc.bin
File: radeon/TAHITI_vce.bin
File: radeon/VERDE_ce.bin
File: radeon/VERDE_mc.bin
File: radeon/VERDE_mc2.bin
File: radeon/VERDE_me.bin
File: radeon/VERDE_pfp.bin
File: radeon/VERDE_rlc.bin
File: radeon/VERDE_smc.bin
File: radeon/OLAND_ce.bin
File: radeon/OLAND_mc.bin
File: radeon/OLAND_mc2.bin
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: en8811h - Airoha 2.5G Ethernet Phy

File: airoha/EthMD32.dm.bin
File: airoha/EthMD32.DSP.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/tahiti_uvd.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/pitcairn_uvd.bin
File: amdgpu/verde_ce.bin
File: amdgpu/verde_k_smc.bin
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File: amdgpu/verde_rlc.bin
File: amdgpu/verde_smc.bin
File: amdgpu/verde_uvd.bin
File: amdgpu/hainan_ce.bin
File: amdgpu/hainan_k_smc.bin
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File: amdgpu/si58_mc.bin
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File: amdgpu/bonaire_vce.bin
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File: amdgpu/gc_11_0_0_mec.bin
File: amdgpu/gc_11_0_0_mes1.bin
File: amdgpu/gc_11_0_0_mes.bin
File: amdgpu/gc_11_0_0_mes_2.bin
File: amdgpu/gc_11_0_0_pfp.bin
File: amdgpu/gc_11_0_0_rlc.bin
File: amdgpu/gc_11_0_1_imu.bin
File: amdgpu/gc_11_0_1_me.bin
File: amdgpu/gc_11_0_1_mec.bin
File: amdgpu/gc_11_0_1_mes.bin
File: amdgpu/gc_11_0_1_mes1.bin
File: amdgpu/gc_11_0_1_mes_2.bin
File: amdgpu/gc_11_0_1_pfp.bin
File: amdgpu/gc_11_0_1_rlc.bin
File: amdgpu/gc_11_0_2_imu.bin
File: amdgpu/gc_11_0_2_me.bin
File: amdgpu/gc_11_0_2_mec.bin
File: amdgpu/gc_11_0_2_mes1.bin
File: amdgpu/gc_11_0_2_mes.bin

File: amdgpu/gc_11_0_2_mes_2.bin
File: amdgpu/gc_11_0_2_pfp.bin
File: amdgpu/gc_11_0_2_rlc.bin
File: amdgpu/gc_11_0_3_imu.bin
File: amdgpu/gc_11_0_3_me.bin
File: amdgpu/gc_11_0_3_mec.bin
File: amdgpu/gc_11_0_3_mes1.bin
File: amdgpu/gc_11_0_3_mes_2.bin
File: amdgpu/gc_11_0_3_pfp.bin
File: amdgpu/gc_11_0_3_rlc.bin
File: amdgpu/gc_11_0_4_imu.bin
File: amdgpu/gc_11_0_4_me.bin
File: amdgpu/gc_11_0_4_mec.bin
File: amdgpu/gc_11_0_4_mes.bin
File: amdgpu/gc_11_0_4_mes1.bin
File: amdgpu/gc_11_0_4_mes_2.bin
File: amdgpu/gc_11_0_4_pfp.bin
File: amdgpu/gc_11_0_4_rlc.bin
File: amdgpu/dcn_3_1_4_dmcub.bin
File: amdgpu/dcn_3_1_5_dmcub.bin
File: amdgpu/dcn_3_1_6_dmcub.bin
File: amdgpu/dcn_3_2_0_dmcub.bin
File: amdgpu/dcn_3_2_1_dmcub.bin
File: amdgpu/psp_13_0_0_sos.bin
File: amdgpu/psp_13_0_0_ta.bin
File: amdgpu/psp_13_0_4_ta.bin
File: amdgpu/psp_13_0_4_toc.bin
File: amdgpu/psp_13_0_5_asd.bin
File: amdgpu/psp_13_0_5_ta.bin
File: amdgpu/psp_13_0_5_toc.bin
File: amdgpu/psp_13_0_7_sos.bin
File: amdgpu/psp_13_0_7_ta.bin
File: amdgpu/psp_13_0_8_asd.bin
File: amdgpu/psp_13_0_8_ta.bin
File: amdgpu/psp_13_0_8_toc.bin
File: amdgpu/psp_13_0_10_sos.bin
File: amdgpu/psp_13_0_10_ta.bin
File: amdgpu/psp_13_0_11_ta.bin
File: amdgpu/psp_13_0_11_toc.bin
File: amdgpu/sdma_5_2_6.bin
File: amdgpu/sdma_5_2_7.bin
File: amdgpu/sdma_6_0_0.bin
File: amdgpu/sdma_6_0_1.bin
File: amdgpu/sdma_6_0_2.bin
File: amdgpu/sdma_6_0_3.bin
File: amdgpu/smu_13_0_0.bin
File: amdgpu/smu_13_0_7.bin
File: amdgpu/smu_13_0_10.bin
File: amdgpu/vcn_3_1_2.bin
File: amdgpu/vcn_4_0_0.bin

File: amdgpu/vcn_4_0_2.bin

File: amdgpu/vcn_4_0_4.bin

Licence: Redistributable. See LICENSE.amdgpu for details.

Driver: amd_pmf - AMD Platform Management Framework TA

File: amdtee/773bd96f-b83f-4d52-b12dc529b13d8543.bin

Link: amdtee/amd_pmf_v3.bin -> 773bd96f-b83f-4d52-b12dc529b13d8543.bin

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Driver: s2255drv

File: f2255usb.bin

Version: 1.2.8

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Driver: rtl8192e - Realtek 8192 PCI wireless driver

File: RTL8192E/boot.img

File: RTL8192E/data.img

File: RTL8192E/main.img

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

Driver: lgs8gxx - Legend Silicon GB20600 demodulator driver

File: lgs8g75.fw

Licence: Unknown

Driver: ib_qib - QLogic Infiniband

File: qllogic/sd7220.fw

Licence:

```
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```

Found in hex form in kernel source.

Driver: qed - QLogic 4xxxx Ethernet Driver Core Module.

File: qed/qed_init_values_zipped-8.4.2.0.bin

File: qed/qed_init_values_zipped-8.7.3.0.bin

File: qed/qed_init_values_zipped-8.10.5.0.bin

File: qed/qed_init_values-8.10.9.0.bin

File: qed/qed_init_values_zipped-8.10.10.0.bin
File: qed/qed_init_values-8.14.6.0.bin
File: qed/qed_init_values_zipped-8.15.3.0.bin
File: qed/qed_init_values-8.18.9.0.bin
File: qed/qed_init_values_zipped-8.20.0.0.bin
File: qed/qed_init_values-8.20.0.0.bin
File: qed/qed_init_values-8.30.12.0.bin
File: qed/qed_init_values_zipped-8.33.1.0.bin
File: qed/qed_init_values_zipped-8.33.11.0.bin
File: qed/qed_init_values-8.33.12.0.bin
File: qed/qed_init_values_zipped-8.37.2.0.bin
File: qed/qed_init_values_zipped-8.37.7.0.bin
File: qed/qed_init_values-8.37.7.0.bin
File: qed/qed_init_values-8.40.33.0.bin
File: qed/qed_init_values_zipped-8.42.2.0.bin
File: qed/qed_init_values_zipped-8.59.1.0.bin

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Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle IV Chipset

File: ueagle-atm/CMV4p.bin.v2
File: ueagle-atm/DSP4p.bin
File: ueagle-atm/eagleIV.fw
Version: 1.0

Licence: Redistributable. See LICENCE.ueagle-atm4-firmware for details

Driver: ueagle-atm - Driver for USB ADSL Modems based on Eagle I,II,III

File: ueagle-atm/930-fpga.bin
File: ueagle-atm/CMVeIWO.bin
File: ueagle-atm/CMVepFR10.bin
File: ueagle-atm/DSP9p.bin
File: ueagle-atm/eagleIII.fw
File: ueagle-atm/adi930.fw
File: ueagle-atm/CMVep.bin
File: ueagle-atm/CMVepFR.bin
File: ueagle-atm/DSPei.bin

File: ueagle-atm/CMV9i.bin
File: ueagle-atm/CMVepES03.bin
File: ueagle-atm/CMVepIT.bin
File: ueagle-atm/DSPep.bin
File: ueagle-atm/CMV9p.bin
File: ueagle-atm/CMVepES.bin
File: ueagle-atm/CMVepWO.bin
File: ueagle-atm/eagleI.fw
File: ueagle-atm/CMVei.bin
File: ueagle-atm/CMVepFR04.bin
File: ueagle-atm/DSP9i.bin
File: ueagle-atm/eagleII.fw
Version: 1.1

Licence: Redistributable. Based on
<https://mail.gna.org/public/eagleusb-dev/2004-11/msg00172.html>

Driver: vxge - Exar X3100 Series 10GbE PCIe I/O Virtualized Server Adapter

File: vxge/X3fw.ncf
File: vxge/X3fw-pxe.ncf
Version: 1.8.1

Licence:

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

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

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

Driver: brcmfmac - Broadcom 802.11n fullmac wireless LAN driver.

File: brcm/bcm4329-fullmac-4.bin
File: brcm/brcmfmac43236b.bin

File: brcm/brcmfmac4329-sdio.bin
File: brcm/brcmfmac4330-sdio.bin
File: brcm/brcmfmac4334-sdio.bin
File: brcm/brcmfmac4335-sdio.bin
File: brcm/brcmfmac43241b0-sdio.bin
File: brcm/brcmfmac43241b4-sdio.bin
File: brcm/brcmfmac43241b5-sdio.bin
File: brcm/brcmfmac43242a.bin
File: brcm/brcmfmac43143.bin
File: brcm/brcmfmac43143-sdio.bin
File: brcm/brcmfmac43430a0-sdio.bin
File: brcm/brcmfmac4350c2-pcie.bin
File: brcm/brcmfmac4350-pcie.bin
File: brcm/brcmfmac43569.bin
File: brcm/brcmfmac4358-pcie.bin
File: brcm/brcmfmac43602-pcie.bin
File: brcm/brcmfmac43602-pcie.ap.bin
File: brcm/brcmfmac4366b-pcie.bin
File: brcm/brcmfmac4366c-pcie.bin
File: brcm/brcmfmac4371-pcie.bin

Licence: Redistributable. See LICENCE.broadcom_bcm43xx for details.

File: brcm/brcmfmac4373.bin
File: cypress/cyfmac43012-sdio.bin
Link: brcm/brcmfmac43012-sdio.bin -> ../cypress/cyfmac43012-sdio.bin
File: cypress/cyfmac43012-sdio.clm_blob
Link: brcm/brcmfmac43012-sdio.clm_blob -> ../cypress/cyfmac43012-sdio.clm_blob
File: cypress/cyfmac43340-sdio.bin
Link: brcm/brcmfmac43340-sdio.bin -> ../cypress/cyfmac43340-sdio.bin
File: cypress/cyfmac43362-sdio.bin
Link: brcm/brcmfmac43362-sdio.bin -> ../cypress/cyfmac43362-sdio.bin
File: cypress/cyfmac4339-sdio.bin
Link: brcm/brcmfmac4339-sdio.bin -> ../cypress/cyfmac4339-sdio.bin
File: cypress/cyfmac43430-sdio.bin
Link: brcm/brcmfmac43430-sdio.bin -> ../cypress/cyfmac43430-sdio.bin
File: cypress/cyfmac43430-sdio.clm_blob
Link: brcm/brcmfmac43430-sdio.clm_blob -> ../cypress/cyfmac43430-sdio.clm_blob
File: cypress/cyfmac43455-sdio.bin
Link: brcm/brcmfmac43455-sdio.bin -> ../cypress/cyfmac43455-sdio.bin
File: cypress/cyfmac43455-sdio.clm_blob
Link: brcm/brcmfmac43455-sdio.clm_blob -> ../cypress/cyfmac43455-sdio.clm_blob
File: cypress/cyfmac4354-sdio.bin
Link: brcm/brcmfmac4354-sdio.bin -> ../cypress/cyfmac4354-sdio.bin
File: cypress/cyfmac4354-sdio.clm_blob
Link: brcm/brcmfmac4354-sdio.clm_blob -> ../cypress/cyfmac4354-sdio.clm_blob
File: cypress/cyfmac4356-pcie.bin
Link: brcm/brcmfmac4356-pcie.bin -> ../cypress/cyfmac4356-pcie.bin
File: cypress/cyfmac4356-pcie.clm_blob
Link: brcm/brcmfmac4356-pcie.clm_blob -> ../cypress/cyfmac4356-pcie.clm_blob

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File: cypress/cyfm4356-sdio.bin
Link: brcm/brcmfm4356-sdio.bin -> ../cypress/cyfm4356-sdio.bin
File: cypress/cyfm4356-sdio.clm_blob
Link: brcm/brcmfm4356-sdio.clm_blob -> ../cypress/cyfm4356-sdio.clm_blob
File: cypress/cyfm4357-pcie.bin
Link: brcm/brcmfm4357-pcie.bin -> ../cypress/cyfm4357-pcie.bin
File: cypress/cyfm4357-pcie.clm_blob
Link: brcm/brcmfm4357-pcie.clm_blob -> ../cypress/cyfm4357-pcie.clm_blob
File: cypress/cyfm4373-sdio.bin
Link: brcm/brcmfm4373-sdio.bin -> ../cypress/cyfm4373-sdio.bin
File: cypress/cyfm4373-sdio.clm_blob
Link: brcm/brcmfm4373-sdio.clm_blob -> ../cypress/cyfm4373-sdio.clm_blob
File: cypress/cyfm54591-pcie.bin
Link: brcm/brcmfm54591-pcie.bin -> ../cypress/cyfm54591-pcie.bin
File: cypress/cyfm54591-pcie.clm_blob
Link: brcm/brcmfm54591-pcie.clm_blob -> ../cypress/cyfm54591-pcie.clm_blob

```

Licence: Redistributable. See LICENCE.cypress for details.

```

File: "brcm/brcmfm43241b4-sdio.Advantech-MICA-071.txt"
File: "brcm/brcmfm43241b4-sdio.Intel Corp.-VALLEYVIEW C0 PLATFORM.txt"
File: "brcm/brcmfm4330-sdio.Prowise-PT301.txt"
File: "brcm/brcmfm43340-sdio.ASUSTeK COMPUTER INC.-TF103CE.txt"
File: "brcm/brcmfm43340-sdio.meegopad-t08.txt"
File: "brcm/brcmfm43340-sdio.pov-tab-p1006w-data.txt"
File: "brcm/brcmfm43340-sdio.predia-basic.txt"
File: "brcm/brcmfm43362-sdio.WC121.txt"
File: "brcm/brcmfm43362-sdio.cubietech,cubietruck.txt"
Link: brcm/brcmfm43362-sdio.kobo,aura.txt -> brcmfm43362-sdio.WC121.txt
Link: brcm/brcmfm43362-sdio.kobo,tolino-shine2hd.txt ->
brcmfm43362-sdio.WC121.txt
Link: brcm/brcmfm43362-sdio.lemaker,bananapro.txt ->
brcmfm43362-sdio.cubietech,cubietruck.txt
File: "brcm/brcmfm43430a0-sdio.ilife-S806.txt"
File: "brcm/brcmfm43430a0-sdio.jumper-ezpad-mini3.txt"
File: "brcm/brcmfm43430a0-sdio.ONDA-V80 PLUS.txt"
File: "brcm/brcmfm43430-sdio.AP6212.txt"
Link: brcm/brcmfm43430-sdio.sinovoip,bpi-m2-plus.txt ->
brcmfm43430-sdio.AP6212.txt
Link: brcm/brcmfm43430-sdio.sinovoip,bpi-m2-zero.txt ->
brcmfm43430-sdio.AP6212.txt
Link: brcm/brcmfm43430-sdio.sinovoip,bpi-m2-ultra.txt ->
brcmfm43430-sdio.AP6212.txt
Link: brcm/brcmfm43430-sdio.sinovoip,bpi-m3.txt -> brcmfm43430-sdio.AP6212.txt
Link: brcm/brcmfm43430-sdio.sinovoip,bananapi-m64.txt ->
brcmfm43430-sdio.AP6212.txt
Link: brcm/brcmfm43430-sdio.friendlyarm,nanopi-r1.txt ->
brcmfm43430-sdio.AP6212.txt
Link: brcm/brcmfm43430-sdio.starfive,visionfive-v1.txt ->
brcmfm43430-sdio.AP6212.txt

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Link: brcm/brcmfmac43430-sdio.beagle,beaglev-starlight-jh7100-a1.txt ->
brcmfmac43430-sdio.AP6212.txt
Link: brcm/brcmfmac43430-sdio.beagle,beaglev-starlight-jh7100-r0.txt ->
brcmfmac43430-sdio.AP6212.txt
File: "brcm/brcmfmac43430-sdio.Hampoo-D2D3_Vi8A1.txt"
File: "brcm/brcmfmac43430-sdio.MUR1DX.txt"
File: "brcm/brcmfmac43430-sdio.raspberrypi,3-model-b.txt"
Link: brcm/brcmfmac43430-sdio.raspberrypi,model-zero-w.txt ->
brcmfmac43430-sdio.raspberrypi,3-model-b.txt
Link: brcm/brcmfmac43430-sdio.raspberrypi,model-zero-2-w.txt ->
brcmfmac43430-sdio.raspberrypi,3-model-b.txt
File: "brcm/brcmfmac43455-sdio.acepc-t8.txt"
File: "brcm/brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt"
Link: brcm/brcmfmac43455-sdio.raspberrypi,3-model-a-plus.txt ->
brcmfmac43455-sdio.raspberrypi,3-model-b-plus.txt
File: "brcm/brcmfmac43455-sdio.raspberrypi,4-model-b.txt"
Link: brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ 4\
Model\ B.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
Link: brcm/brcmfmac43455-sdio.Raspberry\ Pi\ Foundation-Raspberry\ Pi\ Compute\
Module\ 4.txt -> brcmfmac43455-sdio.raspberrypi,4-model-b.txt
File: "brcm/brcmfmac43455-sdio.MINIX-NEO Z83-4.txt"
File: "brcm/brcmfmac4356-pcie.gpd-win-pocket.txt"
File: "brcm/brcmfmac4356-pcie.Intel Corporation-CHERRYVIEW D1 PLATFORM.txt"
File: "brcm/brcmfmac4356-pcie.Xiaomi Inc-Mipad2.txt"
File: brcm/brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.firefly,firefly-rk3399.txt ->
brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.khadass,vim2.txt -> brcmfmac4356-sdio.AP6356S.txt
Link: brcm/brcmfmac4356-sdio.vamrs,rock960.txt -> brcmfmac4356-sdio.AP6356S.txt
File: brcm/brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.beagle,am5729-beagleboneai.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinebook-pro.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinenote-v1.1.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinenote-v1.2.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,pinephone-pro.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,quartz64-a.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,quartz64-b.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,rockpro64-v2.0.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,rockpro64-v2.1.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,soquartz-model-a.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt

Link: brcm/brcmfmac43455-sdio.pine64,soquartz-cm4io.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt
Link: brcm/brcmfmac43455-sdio.pine64,soquartz-blade.txt ->
brcmfmac43455-sdio.AW-CM256SM.txt

Licence: GPLv2. See GPL-2 for details.

Driver: ti-vpe - Texas Instruments V4L2 driver for Video Processing Engine

File: ti/vpdma-1b8.bin

Licence: Redistributable. See LICENCE.ti-tspa for details.

Driver: wl1251 - Texas Instruments 802.11 WLAN driver for WiLink4 chips

File: ti-connectivity/wl1251-fw.bin

Version: 4.0.4.3.7

File: ti-connectivity/wl1251-nvs.bin

Licence: Redistributable. See LICENCE.wl1251 for details.

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wl12xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wl12xx - Texas Instruments 802.11 WLAN driver for WiLink6/7 chips

File: ti-connectivity/wl1271-fw.bin

Version: 6.1.0.50.350 (STA-only)

File: ti-connectivity/wl1271-fw-2.bin

Version: 6.1.5.50.74 (STA-only)

File: ti-connectivity/wl1271-fw-ap.bin

Version: 6.2.1.0.54 (AP-only)

File: ti-connectivity/wl127x-fw-3.bin

Version: 6.3.0.0.77

File: ti-connectivity/wl127x-fw-plt-3.bin

Version: 6.3.0.0.77 (PLT-only)

File: ti-connectivity/wl127x-fw-4-sr.bin

Version: 6.3.5.0.98 (Single-role)

File: ti-connectivity/wl127x-fw-4-mr.bin

Version: 6.5.2.0.15 (Multi-role)
File: ti-connectivity/wl127x-fw-4-plt.bin
Version: 6.3.5.0.98 (PLT-only)
File: ti-connectivity/wl127x-fw-5-sr.bin
Version: 6.3.10.0.142 (Single-role)
File: ti-connectivity/wl127x-fw-5-mr.bin
Version: 6.5.7.0.50 (Multi-role)
File: ti-connectivity/wl127x-fw-5-plt.bin
Version: 6.3.10.0.142 (PLT-only)

File: ti-connectivity/wl128x-fw.bin
Version: 7.1.5.50.74 (STA-only)
File: ti-connectivity/wl128x-fw-ap.bin
Version: 7.2.1.0.54 (AP-only)
File: ti-connectivity/wl128x-fw-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-plt-3.bin
Version: 7.3.0.0.77
File: ti-connectivity/wl128x-fw-4-sr.bin
Version: 7.3.5.0.98 (Single-role)
File: ti-connectivity/wl128x-fw-4-mr.bin
Version: 7.5.2.0.15 (Multi-role)
File: ti-connectivity/wl128x-fw-4-plt.bin
Version: 7.3.5.0.98 (PLT)
File: ti-connectivity/wl128x-fw-5-sr.bin
Version: 7.3.10.0.142 (Single-role)
File: ti-connectivity/wl128x-fw-5-mr.bin
Version: 7.5.7.0.50 (Multi-role)
File: ti-connectivity/wl128x-fw-5-plt.bin
Version: 7.3.10.2.142 (PLT-only)

File: ti-connectivity/wl127x-nvs.bin
File: ti-connectivity/wl128x-nvs.bin
Link: ti-connectivity/wl12xx-nvs.bin -> wl127x-nvs.bin
Link: ti-connectivity/wl1271-nvs.bin -> wl127x-nvs.bin

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The NVS file includes two parts:

- radio calibration
- HW configuration parameters (aka. INI values)

The published NVS files are for testing only. Every device needs to have a unique NVS which is properly calibrated for best results. You can find more information about NVS generation for your device here:

<http://wireless.kernel.org/en/users/Drivers/wl12xx/calibrator>

If you're using a wl127x based device, use a symbolic link called wl1271-nvs.bin that links to the wl127x-nvs.bin file. If you are

using wll28x, link to wll28x-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 wll2xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: wll8xx - Texas Instruments 802.11 WLAN driver for WiLink8 chips

File: ti-connectivity/wll8xx-fw.bin
Version: 8.2.0.0.100
File: ti-connectivity/wll8xx-fw-2.bin
Version: 8.5.0.0.55
File: ti-connectivity/wll8xx-fw-3.bin
Version: 8.8.0.0.13
File: ti-connectivity/wll8xx-fw-4.bin
Version: 8.9.0.0.79

Licence: Redistributable. See LICENCE.ti-connectivity for details.

The driver expects to find the firmwares under a ti-connectivity subdirectory. So if your system looks for firmwares in /lib/firmware, the firmwares for wll8xx chips must be located in /lib/firmware/ti-connectivity/.

Driver: TI_ST - Texas Instruments bluetooth driver

File: ti-connectivity/TIInit_6.2.31.bts
Version: 2.44 (TI_P31.123)
File: ti-connectivity/TIInit_6.6.15.bts
Version: 2.14 (TI_P6_15.93)
File: ti-connectivity/TIInit_7.2.31.bts

Licence: Redistributable. See LICENCE.ti-connectivity for details.

TIInit_7.2.31.bts version 7.2.31

In order to use that file copy it to /lib/firmware/ti-connectivity.

Driver: tlg2300 - Telgent 2300 V4L/DVB driver.

File: tlg2300_firmware.bin

Licence: Redistributable.

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Driver: r8712u - Realtek 802.11n WLAN driver for RTL8712U

File: rtlwifi/rtl8712u.bin

Info: From Vendor's rtl8712_8188_8191_8192SU_usb_linux_v7_0.20100831
Reverted rtl8188C_8192C_8192D_usb_linux_v3.4.2_3727.20120404

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ce - Realtek 802.11n WLAN driver for RTL8192CE

File: rtlwifi/rtl8192cfw.bin

File: rtlwifi/rtl8192cfwU.bin

File: rtlwifi/rtl8192cfwU_B.bin

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192cu - Realtek 802.11n WLAN driver for RTL8192CU

File: rtlwifi/rtl8192cufw.bin

File: rtlwifi/rtl8192cufw_A.bin

File: rtlwifi/rtl8192cufw_B.bin

File: rtlwifi/rtl8192cufw_TMSC.bin

Info: From Vendor's rtl8188C_8192C_usb_linux_v4.0.1_6911.20130308 driver

All files extracted from driver/hal/rtl8192c/usb/Hal8192CUHWImg.c

Relevant variables (CONFIG_BT_COEXISTENCE not set):

- rtlwifi/rtl8192cufw_A.bin: Rt18192CUFwUMCACutImgArray
- rtlwifi/rtl8192cufw_B.bin: Rt18192CUFwUMCBCutImgArray
- rtlwifi/rtl8192cufw_TMSC.bin: Rt18192CUFwTSMCIImgArray

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: 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: rtl8821ae - Realtek 802.11n WLAN driver for RTL8812AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8812aefw.bin
File: rtlwifi/rtl8812aefw_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8821ae - Realtek 802.11n WLAN driver for RTL8821AE

Info: From Vendor's realtek/rtlwifi_linux_mac80211_0019.0320.2014V628 driver
File: rtlwifi/rtl8821aefw.bin
File: rtlwifi/rtl8821aefw_wowlan.bin
Info: Update to version 29 - Sent by Realtek
File: rtlwifi/rtl8821aefw_29.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8822be - Realtek 802.11n WLAN driver for RTL8822BE

Info: Sent to Larry Finger by Realtek engineer Ping-Ke Shih <pkshih@realtek.com>
File: rtlwifi/rtl8822befw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtw88 - Realtek 802.11ac WLAN driver for RTL8822BE and RTL8822CE

Info: Sent to Larry Finger by Realtek engineer Yan-Hsuan Chuang
<yhchuang@realtek.com>
File: rtw88/rtw8822b_fw.bin
File: rtw88/rtw8822c_fw.bin
File: rtw88/rtw8822c_wow_fw.bin
File: rtw88/README
File: rtw88/rtw8723d_fw.bin

File: rtw88/rtw8821c_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

These firmware should be put under /lib/firmware/rtw88/
And note that the rtw88 driver is able to support wake-on-wireless LAN
for RTL8822C devices, after kernel v5.6+. So, make sure the firmware
rtw88/rtw8822c_wow_fw.bin is also packed, otherwise the firmware load
fail could be a problem.
Although RTL8723D devices are 802.11n device, they are also supported
by rtw88 because the hardware arch is similar.

Driver: rtw89 - Realtek 802.11ax WLAN driver for RTL8851B/RTL8852A/RTL8852B/RTL8852C

File: rtw89/rtw8851b_fw.bin
File: rtw89/rtw8852a_fw.bin
File: rtw89/rtw8852b_fw.bin
File: rtw89/rtw8852b_fw-1.bin
File: rtw89/rtw8852c_fw.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8192ee - Realtek 802.11n WLAN driver for RTL8192EE

Info: Initial version taken from Realtek version
rtl_92ce_92se_92de_8723ae_88ee_8723be_92ee_linux_mac80211_0017.1224.2013
Updated Jan. 14, 2015 with file added by Realtek to
http://github.com/lwfinger/rtlwifi_new.git.
Same firmware rtl8192eu_nic.bin so just link them
Link: rtlwifi/rtl8192eefw.bin -> rtl8192eu_nic.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8723bs - Realtek 802.11n WLAN driver for RTL8723BS

Info: Firmware files extracted from data statements in Realtek driver
v4.3.5.5_12290.20140916_BTCOEX20140507-4E40.
File: rtlwifi/rtl8723bs_bt.bin
Link: rtlwifi/rtl8723bs_nic.bin -> rtl8723bu_nic.bin
Link: rtlwifi/rtl8723bs_ap_wowlan.bin -> rtl8723bu_ap_wowlan.bin
Link: rtlwifi/rtl8723bs_wowlan.bin -> rtl8723bu_wowlan.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: rtl8xxxu - Realtek 802.11n WLAN driver for RTL8XXX USB devices

Info: rtl8723au taken from Realtek driver
rtl8723A_WiFi_linux_v4.1.3_6044.20121224
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.

File: rtlwifi/rtl8723aufw_A.bin

File: rtlwifi/rtl8723aufw_B.bin

File: rtlwifi/rtl8723aufw_B_NoBT.bin

Info: rtl8723bu taken from Realtek driver
rtl8723BU_WiFi_linux_v4.3.16_14189.20150519_BTCOEX20150119-5844
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.

File: rtlwifi/rtl8723bu_nic.bin

File: rtlwifi/rtl8723bu_wowlan.bin

File: rtlwifi/rtl8723bu_ap_wowlan.bin

Info: rtl8192eu taken from Realtek driver
rtl8192EU_WiFi_linux_v5.11.2.1-18-g8e7df912b.20210527_COEX20171113-0047
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.

File: rtlwifi/rtl8192eu_nic.bin

Version: 35.7

File: rtlwifi/rtl8192eu_wowlan.bin

Version: 35.7

File: rtlwifi/rtl8192eu_ap_wowlan.bin

Version: 18.0

Info: rtl8188fu taken from Realtek driver
RTL8188FU_Linux_v4.3.23.6_20964.20170110
Firmware was embedded in the driver as data statements. This info
has been extracted into a binary file.

File: rtlwifi/rtl8188fufw.bin

File: rtlwifi/rtl8710bufw_SMIC.bin

Version: 16.0

File: rtlwifi/rtl8710bufw_UMC.bin

Version: 16.0

Info: rtl8188eu taken from Realtek driver version
v5.2.2.4_25483.20171222.
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.

File: rtlwifi/rtl8188eufw.bin

Version: 28.0

Info: rtl8192fu taken from Realtek driver version

v5.8.6.2_35538.20191028_COEX20190910-0d02.
Firmware is embedded in the driver as data statements. This info
has been extracted into a binary file.
File: rtlwifi/rtl8192fufw.bin
Version: 6.0

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: r8169 - RealTek 8169/8168/8101 ethernet driver.

File: rtl_nic/rtl8168d-1.fw
File: rtl_nic/rtl8168d-2.fw
File: rtl_nic/rtl8105e-1.fw
File: rtl_nic/rtl8168e-1.fw
File: rtl_nic/rtl8168e-2.fw

File: rtl_nic/rtl8168e-3.fw
Version: 0.0.4

File: rtl_nic/rtl8168f-1.fw
Version: 0.0.5

File: rtl_nic/rtl8168f-2.fw
Version: 0.0.4

File: rtl_nic/rtl8411-1.fw
Version: 0.0.3

File: rtl_nic/rtl8411-2.fw
Version: 0.0.1

File: rtl_nic/rtl8402-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-1.fw
Version: 0.0.1

File: rtl_nic/rtl8106e-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-1.fw
Version: 0.0.3

File: rtl_nic/rtl8168g-2.fw
Version: 0.0.1

File: rtl_nic/rtl8168g-3.fw
Version: 0.0.1

File: rtl_nic/rtl8168h-1.fw
Version: 0.0.2

File: rtl_nic/rtl8168h-2.fw
Version: 0.0.2

File: rtl_nic/rtl8168fp-3.fw
Version: 0.0.1

File: rtl_nic/rtl8107e-1.fw
Version: 0.0.2

File: rtl_nic/rtl8107e-2.fw
Version: 0.0.2

File: rtl_nic/rtl8125a-3.fw
Version: 0.0.1

File: rtl_nic/rtl8125b-1.fw
Version: 0.0.2

File: rtl_nic/rtl8125b-2.fw
Version: 0.0.2

Licence:

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Driver: r8152 - Realtek RTL8152/RTL8153 Based USB Ethernet Adapters

File: rtl_nic/rtl8153a-2.fw
File: rtl_nic/rtl8153a-3.fw
File: rtl_nic/rtl8153a-4.fw
File: rtl_nic/rtl8153b-2.fw
File: rtl_nic/rtl8153c-1.fw
File: rtl_nic/rtl8156a-2.fw
File: rtl_nic/rtl8156b-2.fw

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Driver: vt6656 - VIA VT6656 USB wireless driver

File: vntwusb.fw

Licence: Redistributable. See LICENCE.via_vt6656 for details.

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020001.dfu
File: ar3k/ramps_0x01020001_26.dfu
File: ar3k/AthrBT_0x01020200.dfu
File: ar3k/ramps_0x01020200_26.dfu
File: ar3k/ramps_0x01020200_40.dfu
File: ar3k/AthrBT_0x31010000.dfu
File: ar3k/ramps_0x31010000_40.dfu
File: ar3k/AthrBT_0x11020000.dfu
File: ar3k/ramps_0x11020000_40.dfu
File: ar3k/ramps_0x01020201_26.dfu
File: ar3k/ramps_0x01020201_40.dfu
File: ar3k/AthrBT_0x41020000.dfu
File: ar3k/ramps_0x41020000_40.dfu
File: ar3k/AthrBT_0x11020100.dfu
File: ar3k/ramps_0x11020100_40.dfu
File: ar3k/AthrBT_0x31010100.dfu
File: ar3k/ramps_0x31010100_40.dfu

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: DFU Driver for Atheros bluetooth chipset AR3012

File: ar3k/AthrBT_0x01020201.dfu
File: ar3k/1020201coex/ramps_0x01020201_26_HighPriority.dfu

Licence: Redistributable. See LICENSE.QualcommAtheros_ar3k for details

Driver:Atheros AR300x UART HCI Bluetooth Chip driver

File: ar3k/1020201/PS_ASIC.pst
File: ar3k/1020201/RamPatch.txt
File: ar3k/1020200/ar3kbdaddr.pst
File: ar3k/1020200/PS_ASIC.pst
File: ar3k/1020200/RamPatch.txt
File: ar3k/30101/ar3kbdaddr.pst
File: ar3k/30101/PS_ASIC.pst
File: ar3k/30101/RamPatch.txt
File: ar3k/30000/ar3kbdaddr.pst

File: ar3k/30000/PS_ASIC.pst
File: ar3k/30000/RamPatch.txt

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath6kl - Atheros support for AR6003

File: ath6k/AR6004/hw1.3/fw-3.bin
File: ath6k/AR6004/hw1.3/bdata.bin
File: ath6k/AR6004/hw1.2/fw-2.bin
File: ath6k/AR6004/hw1.2/bdata.bin
File: ath6k/AR6003/hw1.0/otp.bin.z77
File: ath6k/AR6003/hw1.0/bdata.SD31.bin
File: ath6k/AR6003/hw1.0/bdata.SD32.bin
File: ath6k/AR6003/hw1.0/data.patch.bin
File: ath6k/AR6003/hw1.0/bdata.WB31.bin
File: ath6k/AR6003/hw1.0/athwlan.bin.z77
File: ath6k/AR6003/hw2.1.1/fw-2.bin
File: ath6k/AR6003/hw2.1.1/fw-3.bin
File: ath6k/AR6003/hw2.1.1/otp.bin
File: ath6k/AR6003/hw2.1.1/athwlan.bin
File: ath6k/AR6003/hw2.1.1/endpointping.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003/hw2.1.1/data.patch.bin
File: ath6k/AR6003/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/otp.bin.z77
File: ath6k/AR6003/hw2.0/bdata.SD31.bin
File: ath6k/AR6003/hw2.0/bdata.SD32.bin
File: ath6k/AR6003/hw2.0/data.patch.bin
File: ath6k/AR6003/hw2.0/bdata.WB31.bin
File: ath6k/AR6003/hw2.0/athwlan.bin.z77
File: ath6k/AR6002/eeprom.data
File: ath6k/AR6002/eeprom.bin
File: ath6k/AR6002/athwlan.bin.z77
File: ath6k/AR6002/data.patch.hw2_0.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: ath10k - Qualcomm Atheros support for QCA988x family of chips

File: ath10k/QCA988X/hw2.0/board.bin
File: ath10k/QCA988X/hw2.0/firmware-4.bin
Version: 10.2.4.45
File: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA988X/hw2.0/firmware-5.bin

Version: 10.2.4-1.0-00047
File: ath10k/QCA988X/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw2.1/board.bin
File: ath10k/QCA6174/hw2.1/board-2.bin
File: ath10k/QCA6174/hw2.1/firmware-5.bin
Version: SW_RM.1.1.1-00157-QCARMSWPZ-1
File: ath10k/QCA6174/hw2.1/notice_ath10k_firmware-5.txt
File: ath10k/QCA6174/hw3.0/board.bin
File: ath10k/QCA6174/hw3.0/board-2.bin
File: ath10k/QCA6174/hw3.0/firmware-4.bin
Version: WLAN.RM.2.0-00180-QCARMSWPZ-1
File: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-4.txt
File: ath10k/QCA6174/hw3.0/firmware-6.bin
Version: WLAN.RM.4.4.1-00288-QCARMSWPZ-1
File: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-6.txt
File: ath10k/QCA6174/hw3.0/firmware-sdio-6.bin
Version: WLAN.RMH.4.4.1-00174
File: ath10k/QCA6174/hw3.0/notice_ath10k_firmware-sdio-6.txt
File: ath10k/QCA9377/hw1.0/board.bin
File: ath10k/QCA9377/hw1.0/board-2.bin
File: ath10k/QCA9377/hw1.0/firmware-5.bin
Version: WLAN.TF.1.0-00002-QCATFSWPZ-5
File: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-sdio-5.bin
Version: WLAN.TF.1.1.1-00061-QCATFSWPZ-1
File: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-sdio-5.txt
File: ath10k/QCA99X0/hw2.0/board-2.bin
File: ath10k/QCA99X0/hw2.0/firmware-5.bin
Version: 10.4.1.00030-1
File: ath10k/QCA99X0/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA4019/hw1.0/board-2.bin
File: ath10k/QCA4019/hw1.0/firmware-5.bin
Version: 10.4-3.6-00140
File: ath10k/QCA4019/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9887/hw1.0/board.bin
File: ath10k/QCA9887/hw1.0/firmware-5.bin
Version: 10.2.4-1.0-00047
File: ath10k/QCA9887/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9888/hw2.0/board-2.bin
File: ath10k/QCA9888/hw2.0/firmware-5.bin
Version: 10.4-3.9.0.2-00157
File: ath10k/QCA9888/hw2.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9984/hw1.0/board-2.bin
File: ath10k/QCA9984/hw1.0/firmware-5.bin
Version: 10.4-3.9.0.2-00157
File: ath10k/QCA9984/hw1.0/notice_ath10k_firmware-5.txt
File: ath10k/QCA9377/hw1.0/firmware-6.bin
Version: WLAN.TF.2.1-00021-QCARMSWP-1
File: ath10k/QCA9377/hw1.0/notice_ath10k_firmware-6.txt
File: ath10k/WCN3990/hw1.0/board-2.bin

File: ath10k/WCN3990/hw1.0/firmware-5.bin
File: qcom/sdm845/wlanmdsp.mbn
Link: ath10k/WCN3990/hw1.0/wlanmdsp.mbn -> ../../../../qcom/sdm845/wlanmdsp.mbn
Version: WLAN.HL.2.0-01387-QCAHLSWMTPLZ-1
File: qcom/sdm845/notice.txt_wlanmdsp

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: ath11k - Qualcomm Technologies 802.11ax chipset support

File: ath11k/IPQ6018/hw1.0/board-2.bin
File: ath11k/IPQ6018/hw1.0/m3_fw.b00
File: ath11k/IPQ6018/hw1.0/m3_fw.b01
File: ath11k/IPQ6018/hw1.0/m3_fw.b02
File: ath11k/IPQ6018/hw1.0/m3_fw.flist
File: ath11k/IPQ6018/hw1.0/m3_fw.mdt
File: ath11k/IPQ6018/hw1.0/q6_fw.b00
File: ath11k/IPQ6018/hw1.0/q6_fw.b01
File: ath11k/IPQ6018/hw1.0/q6_fw.b02
File: ath11k/IPQ6018/hw1.0/q6_fw.b03
File: ath11k/IPQ6018/hw1.0/q6_fw.b04
File: ath11k/IPQ6018/hw1.0/q6_fw.b05
File: ath11k/IPQ6018/hw1.0/q6_fw.b07
File: ath11k/IPQ6018/hw1.0/q6_fw.b08
File: ath11k/IPQ6018/hw1.0/q6_fw.flist
File: ath11k/IPQ6018/hw1.0/q6_fw.mdt
Version: WLAN.HK.2.7.0.1-01744-QCAHKSUPL_SILICONZ-1
File: ath11k/IPQ6018/hw1.0/Notice.txt
File: ath11k/IPQ8074/hw2.0/board-2.bin
File: ath11k/IPQ8074/hw2.0/m3_fw.b00
File: ath11k/IPQ8074/hw2.0/m3_fw.b01
File: ath11k/IPQ8074/hw2.0/m3_fw.b02
File: ath11k/IPQ8074/hw2.0/m3_fw.flist
File: ath11k/IPQ8074/hw2.0/m3_fw.mdt
File: ath11k/IPQ8074/hw2.0/q6_fw.b00
File: ath11k/IPQ8074/hw2.0/q6_fw.b01
File: ath11k/IPQ8074/hw2.0/q6_fw.b02
File: ath11k/IPQ8074/hw2.0/q6_fw.b03
File: ath11k/IPQ8074/hw2.0/q6_fw.b04
File: ath11k/IPQ8074/hw2.0/q6_fw.b05
File: ath11k/IPQ8074/hw2.0/q6_fw.b07
File: ath11k/IPQ8074/hw2.0/q6_fw.b08
File: ath11k/IPQ8074/hw2.0/q6_fw.flist
File: ath11k/IPQ8074/hw2.0/q6_fw.mdt
Version: WLAN.HK.2.7.0.1-01744-QCAHKSUPL_SILICONZ-1
File: ath11k/IPQ8074/hw2.0/Notice.txt
File: ath11k/QCA6390/hw2.0/board-2.bin
File: ath11k/QCA6390/hw2.0/amss.bin

```
File: ath11k/QCA6390/hw2.0/m3.bin
Version: WLAN.HST.1.0.1-05266-QCAHSTSWPLZ_V2_TO_X86-1
File: ath11k/QCA6390/hw2.0/Notice.txt
File: ath11k/WCN6855/hw2.0/regdb.bin
File: ath11k/WCN6855/hw2.0/board-2.bin
File: ath11k/WCN6855/hw2.0/amss.bin
File: ath11k/WCN6855/hw2.0/m3.bin
Version: WLAN.HSP.1.1-03125-QCAHSPSWPL_V1_V2_SILICONZ_LITE-3.6510.23
File: ath11k/WCN6855/hw2.0/Notice.txt
Link: ath11k/WCN6855/hw2.1/regdb.bin -> ../hw2.0/regdb.bin
Link: ath11k/WCN6855/hw2.1/board-2.bin -> ../hw2.0/board-2.bin
Link: ath11k/WCN6855/hw2.1/amss.bin -> ../hw2.0/amss.bin
Link: ath11k/WCN6855/hw2.1/m3.bin -> ../hw2.0/m3.bin
File: ath11k/QCN9074/hw1.0/board-2.bin
File: ath11k/QCN9074/hw1.0/amss.bin
File: ath11k/QCN9074/hw1.0/m3.bin
Version: WLAN.HK.2.7.0.1-01744-QCAHKSPL_SILICONZ-1
File: ath11k/QCN9074/hw1.0/Notice.txt
File: ath11k/WCN6750/hw1.0/board-2.bin
File: ath11k/WCN6750/hw1.0/wpss.b00
File: ath11k/WCN6750/hw1.0/wpss.b01
File: ath11k/WCN6750/hw1.0/wpss.b02
File: ath11k/WCN6750/hw1.0/wpss.b03
File: ath11k/WCN6750/hw1.0/wpss.b04
File: ath11k/WCN6750/hw1.0/wpss.b05
File: ath11k/WCN6750/hw1.0/wpss.b06
File: ath11k/WCN6750/hw1.0/wpss.b07
File: ath11k/WCN6750/hw1.0/wpss.b08
File: ath11k/WCN6750/hw1.0/wpss.mdt
Version: WLAN.MSL.1.0.1-01160-QCAMSLSWPLZ-1
File: ath11k/WCN6750/hw1.0/Notice.txt
File: ath11k/IPQ5018/hw1.0/board-2.bin
File: ath11k/IPQ5018/hw1.0/m3_fw.b00
File: ath11k/IPQ5018/hw1.0/m3_fw.b01
File: ath11k/IPQ5018/hw1.0/m3_fw.b02
File: ath11k/IPQ5018/hw1.0/m3_fw.flist
File: ath11k/IPQ5018/hw1.0/m3_fw.mdt
File: ath11k/IPQ5018/hw1.0/q6_fw.b00
File: ath11k/IPQ5018/hw1.0/q6_fw.b01
File: ath11k/IPQ5018/hw1.0/q6_fw.b02
File: ath11k/IPQ5018/hw1.0/q6_fw.b03
File: ath11k/IPQ5018/hw1.0/q6_fw.b04
File: ath11k/IPQ5018/hw1.0/q6_fw.b05
File: ath11k/IPQ5018/hw1.0/q6_fw.b07
File: ath11k/IPQ5018/hw1.0/q6_fw.b08
File: ath11k/IPQ5018/hw1.0/q6_fw.b09
File: ath11k/IPQ5018/hw1.0/q6_fw.b10
File: ath11k/IPQ5018/hw1.0/q6_fw.b11
File: ath11k/IPQ5018/hw1.0/q6_fw.b13
File: ath11k/IPQ5018/hw1.0/q6_fw.b14
```

File: ath11k/IPQ5018/hw1.0/q6_fw.flist
File: ath11k/IPQ5018/hw1.0/q6_fw.mdt
Version: WLAN.HK.2.6.0.1-00861-QCAHKSWPL_SILICONZ-1
File: ath11k/IPQ5018/hw1.0/Notice.txt

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k for details

Driver: myri10ge - Myri10GE 10GbE NIC driver

File: myri10ge_eth_z8e.dat
File: myri10ge_ethp_z8e.dat
File: myri10ge_rss_eth_z8e.dat
File: myri10ge_rss_ethp_z8e.dat
File: myri10ge_eth_big_z8e.dat
File: myri10ge_ethp_big_z8e.dat
File: myri10ge_rss_eth_big_z8e.dat
File: myri10ge_rss_ethp_big_z8e.dat
Version: 1.4.57

License: Redistributable. See LICENSE.myri10ge_firmware for details.

Driver: ath6kl - Atheros support for AR6003 WiFi-Bluetooth combo module

File: ath6k/AR6003.1/hw2.1.1/athwlan.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD31.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.SD32.bin
File: ath6k/AR6003.1/hw2.1.1/bdata.WB31.bin
File: ath6k/AR6003.1/hw2.1.1/data.patch.bin
File: ath6k/AR6003.1/hw2.1.1/endpointping.bin
File: ath6k/AR6003.1/hw2.1.1/otp.bin

License: Redistributable. See LICENSE.atheros_firmware for details

Driver: ath6kl - Atheros support for AR3001 WiFi-Bluetooth combo module

File: ar3k/30101coex/ar3kbdaddr.pst
File: ar3k/30101coex/PS_ASIC_aclLowPri.pst
File: ar3k/30101coex/PS_ASIC_aclHighPri.pst
File: ar3k/30101coex/PS_ASIC.pst
File: ar3k/30101coex/RamPatch.txt

License: Redistributable. See LICENSE.atheros_firmware for details

Driver: drxk - Micronas DRX-K demodulator driver

File: dvb-usb-terratec-h5-drxk.fw

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Driver: ene-ub6250 -- ENE UB6250 SD card reader driver

File: ene-ub6250/sd_init1.bin

File: ene-ub6250/sd_init2.bin

File: ene-ub6250/sd_rdwr.bin

File: ene-ub6250/ms_init.bin

File: ene-ub6250/msp_rdwr.bin

File: ene-ub6250/ms_rdwr.bin

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Driver: isci -- Intel C600 SAS controller driver

File: isci/isci_firmware.bin

Source: isci/

Licence: GPLv2. See GPL-2 for details.

Driver: ar5523 -- Atheros AR5523 based USB Wifi dongles

File: ar5523.bin

Licence: Redistributable. See LICENCE.atheros_firmware for details

Driver: s5p-mfc - Samsung MFC video encoder/decoder driver

File: s5p-mfc.fw
File: s5p-mfc-v6.fw
File: s5p-mfc-v6-v2.fw
File: s5p-mfc-v7.fw
File: s5p-mfc-v8.fw
File: s5p-mfc-v12.fw

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Driver: carl9170 -- Atheros AR9170 802.11 draft-n USB driver

File: carl9170-1.fw
Version: 1.9.6
Source: carl9170fw/

Downloaded from <http://linuxwireless.org/en/users/Drivers/carl9170>

Licence: GPLv2. Some build scripts use the New BSD (3-clause) licence.. See GPL-2 for details.

Driver: snd-hda-codec-ca0132 - Creative Sound Core3D codec

File: ctefx.bin
File: ctspeq.bin

Licence: Redistributable. See LICENCE.ca0132 for details

Found also in alsa-firmware package.

Driver: btusb - Bluetooth USB driver

File: intel/ibt-hw-37.7.bseq
Version: 1316.02.00
File: intel/ibt-hw-37.7.10-fw-1.80.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001

File: intel/ibt-hw-37.7.10-fw-1.0.2.3.d.bseq
Version: BT_WilkinsPeak_B3_REL_87_0001
File: intel/ibt-hw-37.7.10-fw-1.80.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.7.10-fw-1.0.1.2d.d.bseq
Version: BT_WilkinsPeak_B5_REL_42_0001
File: intel/ibt-hw-37.8.bseq
Version: 1339_02.00
File: intel/ibt-hw-37.8.10-fw-1.10.2.27.d.bseq
Version: BT_StonePeak_C0_REL_59_0001
File: intel/ibt-hw-37.8.10-fw-1.10.3.11.e.bseq
Version: BT_StonePeak_D0_REL_50_0002
File: intel/ibt-hw-37.8.10-fw-22.50.19.14.f.bseq
Version: BT_StonePeak_D1_REL_67_1278
File: intel/ibt-11-5.ddc
Version: LnP/SfP_REL1294
File: intel/ibt-11-5.sfi
Version: BT_LightningPeak_REL0487
File: intel/ibt-12-16.ddc
Version: BT_WindStormPeak_REL1299
File: intel/ibt-12-16.sfi
Version: BT_WindStormPeak_REL1299
File: intel/ibt-17-16-1.sfi
Version: BT_JeffersonPeak_B0_B0_REL20379
File: intel/ibt-17-16-1.ddc
Version: BT_JeffersonPeak_B0_B0_REL20379
File: intel/ibt-17-2.sfi
Version: BT_JeffersonPeak_B0_B0_REL20379
File: intel/ibt-17-2.ddc
Version: BT_JeffersonPeak_B0_B0_REL20379
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_REL20379
File: intel/ibt-18-16-1.ddc
Version: BT_ThunderPeak_B0_B0_REL20379
File: intel/ibt-18-2.sfi
Version: BT_ThunderPeak_B0_B0_REL20379
File: intel/ibt-18-2.ddc
Version: BT_ThunderPeak_B0_B0_REL20379
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_REL53497
File: intel/ibt-20-0-3.ddc
Version: BT_CyclonePeak_A0_REL53497
File: intel/ibt-20-1-3.sfi
Version: BT_CyclonePeak_A0_REL53497
File: intel/ibt-20-1-3.ddc
Version: BT_CyclonePeak_A0_REL53497
File: intel/ibt-20-1-4.sfi
Version: BT_CyclonePeak_A0_REL53497
File: intel/ibt-20-1-4.ddc
Version: BT_CyclonePeak_A0_REL53497
File: intel/ibt-19-0-0.sfi
Version: BT_Quasar_REL53497
File: intel/ibt-19-0-0.ddc
Version: BT_Quasar_REL53497
File: intel/ibt-19-0-1.sfi
Version: BT_Quasar_REL53497
File: intel/ibt-19-0-1.ddc
Version: BT_Quasar_REL53497
File: intel/ibt-19-0-3.sfi
Version: BT_Quasar_REL53263
File: intel/ibt-19-0-3.ddc
Version: BT_Quasar_REL53263
File: intel/ibt-19-0-4.sfi
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-0-4.ddc
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-16-4.sfi
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-16-4.ddc
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-1.sfi
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-1.ddc
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-0.sfi
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-0.ddc
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-4.sfi
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-32-4.ddc
Version: BT_HarrisonPeak_REL53497
File: intel/ibt-19-240-1.sfi
Version: BT_HarrisonPeak_REL53497

File:intel/ibt-19-240-1.ddc
Version: BT_HarrisonPeak_REL53497
File:intel/ibt-19-240-4.sfi
Version: BT_HarrisonPeak_REL53497
File:intel/ibt-19-240-4.ddc
Version: BT_HarrisonPeak_REL53497
File:intel/ibt-0041-0041.sfi
Version: BT_TyphoonPeak_REL73111
File:intel/ibt-0041-0041.ddc
Version: BT_TyphoonPeak_REL73111
File:intel/ibt-0040-0041.sfi
Version: BT_Solar_GfP2_REL73111
File:intel/ibt-0040-0041.ddc
Version: BT_Solar_GfP2_REL73111
File:intel/ibt-1040-0041.sfi
Version: BT_SolarF_GfP2_REL73111
File:intel/ibt-1040-0041.ddc
Version: BT_SolarF_GfP2_REL73111

File:intel/ibt-0040-1020.sfi
Version: BT_Solar_JfP1_REL59564
File:intel/ibt-0040-1020.ddc
Version: BT_Solar_JfP1_REL59564
File:intel/ibt-1040-1020.sfi
Version: BT_SolarF_JfP1_REL59564
File:intel/ibt-1040-1020.ddc
Version: BT_SolarF_JfP1_REL59564

File:intel/ibt-0040-2120.sfi
Version: BT_Solar_JfP2_REL52159
File:intel/ibt-0040-2120.ddc
Version: BT_Solar_JfP2_REL52159
File:intel/ibt-1040-2120.sfi
Version: BT_SolarF_JfP2_REL59564
File:intel/ibt-1040-2120.ddc
Version: BT_SolarF_JfP2_REL59564

File:intel/ibt-0040-1050.sfi
Version: BT_Solar_HrP1_REL73111
File:intel/ibt-0040-1050.ddc
Version: BT_Solar_HrP1_REL73111
File:intel/ibt-1040-1050.sfi
Version: BT_SolarF_HrP1_REL73111
File:intel/ibt-1040-1050.ddc
Version: BT_SolarF_HrP1_REL73111

File:intel/ibt-0040-4150.sfi
Version: BT_Solar_JnP2_REL73111
File:intel/ibt-0040-4150.ddc
Version: BT_Solar_JnP2_REL73111

File:intel/ibt-1040-4150.sfi
Version: BT_SolarF_JnP2_REL73111
File:intel/ibt-1040-4150.ddc
Version: BT_SolarF_JnP2_REL73111

File:intel/ibt-0291-0291.sfi
Version: BT_GalePeak_REL45894
File:intel/ibt-0291-0291.ddc
Version: BT_GalePeak_REL45894

File:intel/ibt-0180-0041.sfi
Version: BT_Magnetar_GfP2_REL91648
File:intel/ibt-0180-0041.ddc
Version: BT_Magnetar_GfP2_REL91648

File:intel/ibt-0180-4150.sfi
Version: BT_Magnetar_JnP2_REL91648
File:intel/ibt-0180-4150.ddc
Version: BT_Magnetar_JnP2_REL91648

File:intel/ibt-0180-1050.sfi
Version: BT_Magnetar_HrP1_REL91648
File:intel/ibt-0180-1050.ddc
Version: BT_Magnetar_HrP1_REL91648

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File: rtl_bt/rtl8192ee_fw.bin
File: rtl_bt/rtl8192eu_fw.bin
File: rtl_bt/rtl8723a_fw.bin
File: rtl_bt/rtl8723b_fw.bin
File: rtl_bt/rtl8723bs_fw.bin
File: rtl_bt/rtl8723bs_config-OBDA8723.bin
Link: rtl_bt/rtl8723bs_config-OBDA0623.bin -> rtl8723bs_config-OBDA8723.bin
File: rtl_bt/rtl8761a_fw.bin
File: rtl_bt/rtl8761b_fw.bin
File: rtl_bt/rtl8761b_config.bin
File: rtl_bt/rtl8761bu_fw.bin
File: rtl_bt/rtl8761bu_config.bin
File: rtl_bt/rtl8812ae_fw.bin
File: rtl_bt/rtl8821a_fw.bin
Link: rtl_bt/rtl8821a_config.bin -> rtl8821c_config.bin
File: rtl_bt/rtl8822b_fw.bin
File: rtl_bt/rtl8822b_config.bin
File: rtl_bt/rtl8723d_fw.bin
File: rtl_bt/rtl8723d_config.bin
File: rtl_bt/rtl8821c_fw.bin
File: rtl_bt/rtl8821c_config.bin
File: rtl_bt/rtl8821cs_fw.bin
File: rtl_bt/rtl8821cs_config.bin

File: rtl_bt/rtl8822cu_fw.bin
File: rtl_bt/rtl8822cu_config.bin
File: rtl_bt/rtl8822cs_fw.bin
File: rtl_bt/rtl8822cs_config.bin
File: rtl_bt/rtl8852au_fw.bin
File: rtl_bt/rtl8852au_config.bin
File: rtl_bt/rtl8852bu_fw.bin
File: rtl_bt/rtl8852bu_config.bin
File: rtl_bt/rtl8852cu_fw.bin
File: rtl_bt/rtl8852cu_fw_v2.bin
File: rtl_bt/rtl8852cu_config.bin
File: rtl_bt/rtl8851bu_fw.bin
File: rtl_bt/rtl8851bu_config.bin

Licence: Redistributable. See LICENCE.rtlwifi_firmware.txt for details.

Found in vendor driver, linux_bt_usb_2.11.20140423_8723be.rar
From https://github.com/troy-tan/driver_store
Files rtl_bt/rtl8822b_* came directly from Realtek. These files are updated on April 14, 2017.

Found in vendor driver, 20200806_LINUX_BT_DRIVER_RTL8761B_COEX_v0202.zip
File rtl_bt/rtl8761b_config.bin
File rtl_bt/rtl8761bu_config.bin

Driver: btmtk_usb - Bluetooth USB driver

File: mediatek/mt7650.bin
Link: mt7650.bin -> mediatek/mt7650.bin

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Driver: rp2 -- Control RocketPort 2 serial driver

File: rp2.fw

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Driver: go7007

File: go7007/s2250-1.fw
File: go7007/s2250-2.fw
Link: s2250.fw -> go7007/s2250-2.fw
Link: s2250_loader.fw -> go7007/s2250-1.fw

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File: go7007/go7007fw.bin
File: go7007/go7007tv.bin
File: go7007/lr192.fw
File: go7007/px-m402u.fw
File: go7007/px-tv402u.fw
File: go7007/wis-startrek.fw

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Driver: ccp - Platform Security Processor (PSP) device

File: amd/amd_sev_fam17h_model0xh.sbin
Version: 2022-2-25
File: amd/amd_sev_fam17h_model13xh.sbin
Version: 2022-2-25
File: amd/amd_sev_fam19h_model0xh.sbin
Version: 2023-8-23
File: amd/amd_sev_fam19h_model11xh.sbin
Version: 2023-8-23

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Driver: microcode_amd - AMD CPU Microcode Update Driver for Linux

RawFile: amd-ucode/microcode_amd.bin

Version: 2013-07-10
RawFile: amd-ucode/microcode_amd_fam15h.bin
Version: 2018-05-24
RawFile: amd-ucode/microcode_amd_fam16h.bin
Version: 2014-10-28
RawFile: amd-ucode/microcode_amd_fam17h.bin
Version: 2023-12-05
RawFile: amd-ucode/microcode_amd_fam19h.bin
Version: 2023-10-19
File: amd-ucode/README

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.

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(Please note that the actual device firmware is separately licensed)

Driver: BFA/BNA - QLogic BR-series Adapter FC/FCOE drivers

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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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: 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
File: qat_4xxx.bin
File: qat_4xxx_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:

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* 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_catpt -- Intel AudioDSP driver for HSW/BDW platforms

File: intel/catpt/bdw/dsp_basefw.bin

Version: 44b81c4d5397a63108356f58f036953d9b288c4e

Link: intel/IntcSST2.bin -> catpt/bdw/dsp_basefw.bin

License: Redistributable. See LICENCE.IntcSST2 for details

Driver: snd_soc_avs -- Intel AudioDSP driver for CAVS platforms

File: intel/avs/skl/dsp_basefw.bin

File: intel/avs/skl/dsp_mod_7CAD0808-AB10-CD23-EF45-12AB34CD56EF.bin

Version: 9.21.00.4899

Link: intel/dsp_fw_release.bin -> avs/skl/dsp_basefw.bin

Link: intel/dsp_fw_kbl.bin -> avs/skl/dsp_basefw.bin

File: intel/avs/apl/dsp_basefw.bin

Version: 9.22.01.4908

Link: intel/dsp_fw_bxtn.bin -> avs/apl/dsp_basefw.bin

Link: intel/dsp_fw_glk.bin -> avs/apl/dsp_basefw.bin

File: intel/avs/cnl/dsp_basefw.bin

Version: 10.23.00.8551

Link: intel/dsp_fw_cnl.bin -> avs/cnl/dsp_basefw.bin

License: Redistributable. See LICENCE.adsp_sst 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

License: Redistributable. See LICENCE.adsp_sst for details

File: intel/dsp_fw_bxt_n_v2219.bin

Version: 9.22.01.2219_64

File: intel/dsp_fw_bxt_n_v3366.bin

Version: 9.22.01.3366_157

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

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

File: intel/dsp_fw_cnl_v1191.bin
Version: 10.00.00.1191
File: intel/dsp_fw_cnl_v1858.bin
Version: 10.23.00.1858

License: Redistributable. See LICENCE.adsp_sst for details

Driver: smsmdtv - Siano MDTV Core module

File: cmmb_vega_12mhz.inp
File: cmmb_venice_12mhz.inp
File: dvb_nova_12mhz.inp
File: dvb_nova_12mhz_b0.inp
File: isdbt_nova_12mhz.inp
File: isdbt_nova_12mhz_b0.inp
File: isdbt_rio.inp
File: smslxxx-hcw-55xxx-dvbt-02.fw
File: smslxxx-hcw-55xxx-isdbt-02.fw
File: smslxxx-nova-a-dvbt-01.fw
File: smslxxx-nova-b-dvbt-01.fw
File: smslxxx-stellar-dvbt-01.fw
File: tdmb_nova_12mhz.inp

Licence: Redistributable. See LICENCE.siano for details

Driver: xhci-tegra -- NVIDIA Tegra XHCI driver

File: nvidia/tegra124/xusb.bin
Version: v45.46

File: nvidia/tegra210/xusb.bin
Version: v50.24

File: nvidia/tegra186/xusb.bin

Version: v55.15

File: nvidia/tegra194/xusb.bin

Version: v60.06

Licence: Redistributable. See LICENCE.nvidia for details

Driver: tegra-vic -- NVIDIA Tegra VIC driver

File: nvidia/tegra124/vic03_ucode.bin

Link: nvidia/tegra124/vic.bin -> vic03_ucode.bin

File: nvidia/tegra210/vic04_ucode.bin

Link: nvidia/tegra210/vic.bin -> vic04_ucode.bin

File: nvidia/tegra186/vic04_ucode.bin

Link: nvidia/tegra186/vic.bin -> vic04_ucode.bin

File: nvidia/tegra194/vic.bin

Licence: Redistributable. See LICENCE.nvidia for details

Driver: atusb - ATUSB IEEE 802.15.4 transceiver driver

File: atusb/atusb-0.2.dfu

Version: 0.2

File: atusb/atusb-0.3.dfu

Version: 0.3

File: atusb/rzusb-0.3.bin

Version: 0.3

Info: atusb/ChangeLog

Licence: GPLv2 or later. See GPL-2 and GPL-3 for details.

Driver: btqca - Qualcomm Atheros Bluetooth support for QCA61x4 chips

File: qca/nvm_usb_00000201.bin

File: qca/nvm_usb_00000200.bin

File: qca/nvm_usb_00000300.bin

File: qca/nvm_usb_00000302.bin

File: qca/nvm_00130300.bin

File: qca/nvm_00130302.bin

File: qca/nvm_00230302.bin
File: qca/rampatch_usb_00000200.bin
File: qca/rampatch_usb_00000201.bin
File: qca/rampatch_usb_00000300.bin
File: qca/rampatch_usb_00000302.bin
File: qca/rampatch_00130300.bin
File: qca/rampatch_00130302.bin
File: qca/rampatch_00230302.bin
File: qca/nvm_00440302.bin
File: qca/rampatch_00440302.bin
File: qca/nvm_00440302_eu.bin
File: qca/nvm_00440302_i2s_eu.bin
File: qca/nvm_usb_00000302_eu.bin
File: qca/htbtfw20.tlv
File: qca/htnv20.bin
File: qca/rampatch_usb_00130200.bin
File: qca/nvm_usb_00130200.bin
File: qca/nvm_usb_00130200_0104.bin
File: qca/nvm_usb_00130200_0105.bin
File: qca/nvm_usb_00130200_0106.bin
File: qca/nvm_usb_00130200_0107.bin
File: qca/nvm_usb_00130200_0109.bin
File: qca/nvm_usb_00130200_0110.bin
File: qca/rampatch_usb_00130201.bin
File: qca/nvm_usb_00130201.bin
File: qca/nvm_usb_00130201_010a.bin
File: qca/nvm_usb_00130201_010b.bin
File: qca/nvm_usb_00130201_0303.bin
File: qca/nvm_usb_00130201_gf.bin
File: qca/nvm_usb_00130201_gf_010a.bin
File: qca/nvm_usb_00130201_gf_010b.bin
File: qca/nvm_usb_00130201_gf_0303.bin
File: qca/rampatch_usb_00190200.bin
File: qca/nvm_usb_00190200.bin

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

Driver: qca - Qualcomm Atheros Bluetooth support for WCN3988 chips

File: qca/apbtfw10.tlv
File: qca/apbtfw11.tlv
File: qca/apnv10.bin
File: qca/apnv11.bin

Licence: Redistributable. See LICENSE.qcom and qca/NOTICE.txt for details

Driver: qca - Qualcomm Atheros Bluetooth support for WCN399x chips

File: qca/crbtfw21.tlv
File: qca/crnv21.bin
File: qca/crbtfw32.tlv
File: qca/crnv32.bin
File: qca/crnv32u.bin

Driver: qca - Qualcomm Atheros Bluetooth support for WCN6750 chips

File: qca/msbtfw11.mbn
File: qca/msbtfw11.tlv
File: qca/msnv11.bin
File: qca/msnv11.b0a
File: qca/msnv11.b09

Licence: Redistributable. See LICENSE.QualcommAtheros_ath10k and qca/NOTICE.txt for details

Driver: qca - Qualcomm Atheros Bluetooth support for QCA2066 chips

File: qca/hpbtfw21.tlv
File: qca/hpnv21.bin
File: qca/hpnv21g.bin
File: qca/hpnv21.301
File: qca/hpnv21.302
File: qca/hpnv21g.301
File: qca/hpnv21g.302

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_210nv_nic.bin
Version: v1.7.2

File: liquidio/lio_210sv_nic.bin
Version: v1.7.2

File: liquidio/lio_410nv_nic.bin
Version: v1.7.2

Licence: Redistributable. See LICENCE.cavium_liquidio for details

Driver: nitrox -- Cavium CNN55XX crypto driver

File: cavium/cnn55xx_ae.fw

Version: v01

File: cavium/cnn55xx_se.fw

Version: v10

Licence: Redistributable. See LICENCE.cavium for details

Driver: i915 -- Intel Integrated Graphics driver

File: i915/skl_dmc_ver1_23.bin

File: i915/skl_dmc_ver1_26.bin

File: i915/skl_dmc_ver1_27.bin

Link: i915/skl_dmc_ver1.bin -> skl_dmc_ver1_26.bin

Version: DMC API/ABI ver 1 - release 27 for Skylake

File: i915/bxt_dmc_ver1_07.bin

Link: i915/bxt_dmc_ver1.bin -> bxt_dmc_ver1_07.bin

Version: DMC API/ABI ver 1 - release 07 for Broxton

File: i915/kbl_dmc_ver1_01.bin

Link: i915/kbl_dmc_ver1.bin -> kbl_dmc_ver1_01.bin

Version: DMC API/ABI ver 1 - release 01 for Kabylake

File: i915/kbl_dmc_ver1_04.bin

Version: DMC API/ABI ver 1 - release 04 for Kabylake

File: i915/skl_guc_ver1.bin

Version: Guc API/ABI ver 1 - release 1059 for Skylake

File: i915/skl_guc_ver4.bin

Version: Guc API/ABI ver 4 - release 3 for Skylake

File: i915/skl_guc_ver6_1.bin

Link: i915/skl_guc_ver6.bin -> skl_guc_ver6_1.bin

Version: Guc API/ABI ver 6 - release 1 for Skylake

File: i915/skl_guc_ver9_33.bin

Version: Guc API/ABI ver 9 - release 33 for Skylake

File: i915/skl_guc_32.0.3.bin

Version: Guc API/ABI ver 32 - release 0 for Skylake

File: i915/skl_guc_33.0.0.bin
Version: Guc API/ABI ver 33 - release 0 for Skylake

File: i915/skl_guc_49.0.1.bin
Version: Guc API/ABI ver 49 - release 0 for Skylake

File: i915/skl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Skylake

File: i915/skl_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Skylake

File: i915/skl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Skylake

File: i915/skl_huc_ver01_07_1398.bin
Version: HuC API/ABI ver 1 - release 7 for Skylake

File: i915/skl_huc_2.0.0.bin
Version: HuC API/ABI ver 2 - release 0 for Skylake

File: i915/bxt_huc_ver01_07_1398.bin
Version: HuC API/APB ver 1 - release 7 for Broxton

File: i915/bxt_huc_ver01_8_2893.bin
Version: HuC API/APB ver 1 - release 8 for Broxton

File: i915/bxt_huc_2.0.0.bin
Version: HuC API/APB ver 2 - release 0 for Broxton

File: i915/kbl_huc_ver02_00_1810.bin
Version: HuC API/APB ver 2 - for Kabylake

File: i915/kbl_huc_4.0.0.bin
Version: HuC API/APB ver 4 - for Kabylake

File: i915/bxt_guc_ver8_7.bin
Version: Guc API/APB ver 8 - release 7 for Broxton

File: i915/bxt_guc_ver9_29.bin
Version: Guc API/APB ver 9 - release 29 for Broxton

File: i915/bxt_guc_32.0.3.bin
Version: Guc API/APB ver 32 - release 0 for Broxton

File: i915/bxt_guc_33.0.0.bin
Version: Guc API/APB ver 33 - release 0 for Broxton

File: i915/bxt_guc_49.0.1.bin

Version: GuC API/APB ver 49 - release 0 for Broxton

File: i915/bxt_guc_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for Broxton

File: i915/bxt_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Broxton

File: i915/bxt_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for Broxton

File: i915/kbl_guc_ver9_14.bin

Version: GuC API/APB ver 9 release 14 for Kabylake

File: i915/cml_guc_33.0.0.bin

Version: GuC API/APB ver 33 release 0 for Comet Lake

File: i915/cml_guc_49.0.1.bin

Version: GuC API/APB ver 49 release 0 for Comet Lake

File: i915/cml_guc_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for Comet Lake

File: i915/cml_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Comet Lake

File: i915/cml_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for Comet Lake

File: i915/kbl_guc_ver9_39.bin

Version: GuC API/APB ver 9 release 39 for Kabylake

File: i915/kbl_guc_32.0.3.bin

Version: GuC API/APB ver 32 release 0 for Kabylake

File: i915/kbl_guc_33.0.0.bin

Version: GuC API/APB ver 33 release 0 for Kabylake

File: i915/kbl_guc_49.0.1.bin

Version: GuC API/APB ver 49 release 0 for Kabylake

File: i915/kbl_guc_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for Kabylake

File: i915/kbl_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Kabylake

File: i915/kbl_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for Kabylake

File: i915/glk_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Geminilake

File: i915/glk_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Geminilake

File: i915/glk_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Geminilake

File: i915/glk_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Geminilake

File: i915/glk_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Geminilake

File: i915/glk_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Geminilake

File: i915/glk_huc_ver03_01_2893.bin
Version: Huc API/APB ver 3 release 1 for Geminilake

File: i915/glk_huc_4.0.0.bin
Version: Huc API/APB ver 4 release 0 for Geminilake

File: i915/glk_dmc_ver1_04.bin
Version: DMC API/ABI ver 1 - release 04 for Geminilake

File: i915/cml_huc_4.0.0.bin
Version: HuC API/ABI ver 4 - release 0 for Cometlake

File: i915/cnl_dmc_ver1_06.bin
Version: DMC API/ABI ver 1 - release 06 for Cannonlake

File: i915/cnl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for Cannonlake

File: i915/icl_dmc_ver1_07.bin
Version: DMC API/ABI ver 1 - release 07 for icelake

File: i915/icl_dmc_ver1_09.bin
Version: DMC API/ABI ver 1 - release 09 for icelake

File: i915/icl_guc_32.0.3.bin
Version: Guc API/APB ver 32 release 0 for Icelake

File: i915/icl_guc_33.0.0.bin
Version: Guc API/APB ver 33 release 0 for Icelake

File: i915/icl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Icelake

File: i915/icl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Icelake

File: i915/icl_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Icelake

File: i915/icl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Icelake

File: i915/icl_huc_ver8_4_3238.bin
Version: Huc API/APB ver 8 release 4 for Icelake

File: i915/tgl_dmc_ver2_04.bin
Version: DMC API/APB ver 2 release 4 for Tigerlake

File: i915/tgl_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for Tigerlake

File: i915/tgl_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for Tigerlake

File: i915/tgl_dmc_ver2_12.bin
Version: DMC API/APB ver 2 release 12 for Tigerlake

File: i915/icl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Icelake

File: i915/ehl_guc_33.0.4.bin
Version: Guc API/APB ver 33 release 0 for Elkhartlake

File: i915/ehl_guc_49.0.1.bin
Version: Guc API/APB ver 49 release 0 for Elkhartlake

File: i915/ehl_guc_62.0.0.bin
Version: GuC API/APB ver 62.0.0 for Elkhartlake

File: i915/ehl_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Elkhartlake

File: i915/ehl_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Elkhartlake

File: i915/ehl_huc_9.0.0.bin
Version: Huc API/APB ver 9 release 0 for Elkhartlake

File: i915/tgl_guc_35.2.0.bin
Version: Guc API/APB ver 35 release 2 for Tigerlake

File: i915/tgl_guc_49.0.1.bin

Version: GuC API/APB ver 49 release 0 for Tigerlake

File: i915/tgl_guc_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for Tigerlake

File: i915/tgl_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for Tigerlake

File: i915/tgl_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for Tigerlake

File: i915/tgl_guc_70.bin

Version: GuC API/APB ver 70.13.1 for Tigerlake

File: i915/tgl_huc_7.0.3.bin

Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.0.12.bin

Version: Huc API/APB ver 7 release 0 for Tigerlake

File: i915/tgl_huc_7.5.0.bin

Version: Huc API/APB ver 7 release 5 for Tigerlake

File: i915/tgl_huc_7.9.3.bin

Version: Huc API/APB ver 7.9.3 for Tigerlake

File: i915/tgl_huc.bin

Version: Huc API/APB ver 7.9.3 for Tigerlake

File: i915/rkl_dmc_ver2_02.bin

Version: DMC API/APB ver 2 release 2 for Rocketlake

File: i915/rkl_dmc_ver2_03.bin

Version: DMC API/APB ver 2 release 3 for Rocketlake

File: i915/dg1_dmc_ver2_02.bin

Version: DMC API/APB ver 2 release 2 for DG1

File: i915/dg1_guc_49.0.1.bin

Version: GuC API/APB ver 49 release 0 for DG1

File: i915/dg1_guc_62.0.0.bin

Version: GuC API/APB ver 62.0.0 for DG1

File: i915/dg1_guc_69.0.3.bin

Version: GuC API/APB ver 69.0.3 for DG1

File: i915/dg1_guc_70.1.1.bin

Version: GuC API/APB ver 70.1.1 for DG1

File: i915/dg1_guc_70.bin
Version: GuC API/APB ver 70.5.1 for DG1

File: i915/dg1_huc_7.7.1.bin
Version: Huc API/APB ver 7 release 1 for DG1

File: i915/dg1_huc_7.9.3.bin
Version: HuC API/APB ver 7.9.3 for DG1

File: i915/dg1_huc.bin
Version: HuC API/APB ver 7.9.3 for DG1

File: i915/adls_dmc_ver2_01.bin
Version: DMC API/APB ver 2 release 1 for Alderlake S

File: i915/adlp_dmc_ver2_09.bin
Version: DMC API/APB ver 2 release 9 for Alderlake P

File: i915/adlp_dmc_ver2_10.bin
Version: DMC API/APB ver 2 release 10 for Alderlake P

File: i915/adlp_dmc_ver2_12.bin
Version: DMC API/APB ver 2 release 12 for Alderlake P

File: i915/adlp_dmc_ver2_14.bin
Version: DMC API/APB ver 2 release 14 for Alderlake P

File: i915/adlp_dmc_ver2_16.bin
Version: DMC API/APB ver 2 release 16 for Alderlake P

File: i915/adlp_dmc.bin
Version: DMC API/APB ver 2 release 20 for Alderlake P

File: i915/adlp_guc_62.0.3.bin
Version: GuC API/APB ver 62.0.3 for Alderlake P

File: i915/adlp_guc_69.0.3.bin
Version: GuC API/APB ver 69.0.3 for Alderlake P

File: i915/adlp_guc_70.1.1.bin
Version: GuC API/APB ver 70.1.1 for Alderlake P

File: i915/adlp_guc_70.bin
Version: GuC API/APB ver 70.13.1 for Alderlake P

File: i915/dg2_guc_70.1.2.bin
Version: GuC API/APB ver 70.1.2 for DG2

File: i915/dg2_guc_70.4.1.bin
Version: GuC API/APB ver 70.4.1 for DG2

File: i915/dg2_guc_70.bin
Version: GuC API/APB ver 70.13.1 for DG2

File: i915/dg2_huc_gsc.bin
Version: HuC API/APB ver 7.10.3 for DG2

File: i915/dg2_dmc_ver2_06.bin
Version: DMC API/APB ver 2 release 6 for DG2

File: i915/dg2_dmc_ver2_07.bin
Version: DMC API/APB ver 2 release 7 for DG2

File: i915/dg2_dmc_ver2_08.bin
Version: DMC API/APB ver 2 release 8 for DG2

File: i915/mtl_dmc_ver2_10.bin
Version: DMC API/APB ver 2 release 10 for Meteorlake

File: i915/mtl_dmc.bin
Version: DMC API/APB ver 2 release 19 for Meteorlake

File: i915/mtl_guc_70.bin
Version: GuC API/APB ver 70.13.1 for Meteorlake

File: i915/mtl_huc_gsc.bin
Version: HuC API/APB ver 8.5.4 for Meteorlake

File: i915/mtl_gsc_1.bin
Version: GSC API/APB v1.0, release 102.0.0.1655, SVN 1 for Meteorlake

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Driver: nouveau - NVIDIA GPU driver

File: nvidia/gk20a/fecs_data.bin
File: nvidia/gk20a/fecs_inst.bin
File: nvidia/gk20a/gpccs_data.bin
File: nvidia/gk20a/gpccs_inst.bin
File: nvidia/gk20a/sw_bundle_init.bin
File: nvidia/gk20a/sw_ctx.bin
File: nvidia/gk20a/sw_method_init.bin
File: nvidia/gk20a/sw_nonctx.bin
File: nvidia/gm200/acr/bl.bin
File: nvidia/gm200/acr/ucode_load.bin
File: nvidia/gm200/acr/ucode_unload.bin
File: nvidia/gm200/gr/fecs_bl.bin
File: nvidia/gm200/gr/fecs_data.bin
File: nvidia/gm200/gr/fecs_inst.bin

File: nvidia/gm200/gr/fecs_sig.bin
File: nvidia/gm200/gr/gpccs_bl.bin
File: nvidia/gm200/gr/gpccs_data.bin
File: nvidia/gm200/gr/gpccs_inst.bin
File: nvidia/gm200/gr/gpccs_sig.bin
File: nvidia/gm200/gr/sw_bundle_init.bin
File: nvidia/gm200/gr/sw_ctx.bin
File: nvidia/gm200/gr/sw_method_init.bin
File: nvidia/gm200/gr/sw_nonctx.bin
Link: nvidia/gm204/acr/bl.bin -> ../../gm200/acr/bl.bin
Link: nvidia/gm204/acr/ucode_load.bin -> ../../gm200/acr/ucode_load.bin
Link: nvidia/gm204/acr/ucode_unload.bin -> ../../gm200/acr/ucode_unload.bin
Link: nvidia/gm204/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm204/gr/fecs_data.bin
Link: nvidia/gm204/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm204/gr/fecs_sig.bin
Link: nvidia/gm204/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm204/gr/gpccs_data.bin
Link: nvidia/gm204/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm204/gr/gpccs_sig.bin
Link: nvidia/gm204/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm204/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm204/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm204/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
Link: nvidia/gm206/acr/bl.bin -> ../../gm200/acr/bl.bin
File: nvidia/gm206/acr/ucode_load.bin
File: nvidia/gm206/acr/ucode_unload.bin
Link: nvidia/gm206/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gm206/gr/fecs_data.bin
Link: nvidia/gm206/gr/fecs_inst.bin -> ../../gm200/gr/fecs_inst.bin
File: nvidia/gm206/gr/fecs_sig.bin
Link: nvidia/gm206/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gm206/gr/gpccs_data.bin
Link: nvidia/gm206/gr/gpccs_inst.bin -> ../../gm200/gr/gpccs_inst.bin
File: nvidia/gm206/gr/gpccs_sig.bin
Link: nvidia/gm206/gr/sw_bundle_init.bin -> ../../gm200/gr/sw_bundle_init.bin
Link: nvidia/gm206/gr/sw_ctx.bin -> ../../gm200/gr/sw_ctx.bin
Link: nvidia/gm206/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin
Link: nvidia/gm206/gr/sw_nonctx.bin -> ../../gm200/gr/sw_nonctx.bin
File: nvidia/gm20b/acr/bl.bin
File: nvidia/gm20b/acr/ucode_load.bin
File: nvidia/gm20b/gr/fecs_bl.bin
File: nvidia/gm20b/gr/fecs_data.bin
File: nvidia/gm20b/gr/fecs_inst.bin
File: nvidia/gm20b/gr/fecs_sig.bin
File: nvidia/gm20b/gr/gpccs_data.bin
File: nvidia/gm20b/gr/gpccs_inst.bin
File: nvidia/gm20b/gr/sw_bundle_init.bin
File: nvidia/gm20b/gr/sw_ctx.bin
Link: nvidia/gm20b/gr/sw_method_init.bin -> ../../gm200/gr/sw_method_init.bin

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File: nvidia/gm20b/gr/sw_nonctx.bin
File: nvidia/gm20b/pmu/desc.bin
File: nvidia/gm20b/pmu/image.bin
File: nvidia/gm20b/pmu/sig.bin
File: nvidia/gp100/acr/bl.bin
File: nvidia/gp100/acr/ucode_load.bin
File: nvidia/gp100/acr/ucode_unload.bin
Link: nvidia/gp100/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gp100/gr/fecs_data.bin
File: nvidia/gp100/gr/fecs_inst.bin
File: nvidia/gp100/gr/fecs_sig.bin
Link: nvidia/gp100/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gp100/gr/gpccs_data.bin
File: nvidia/gp100/gr/gpccs_inst.bin
File: nvidia/gp100/gr/gpccs_sig.bin
File: nvidia/gp100/gr/sw_bundle_init.bin
File: nvidia/gp100/gr/sw_ctx.bin
File: nvidia/gp100/gr/sw_method_init.bin
File: nvidia/gp100/gr/sw_nonctx.bin
File: nvidia/gp102/acr/bl.bin
File: nvidia/gp102/acr/ucode_load.bin
File: nvidia/gp102/acr/ucode_unload.bin
File: nvidia/gp102/acr/unload_bl.bin
Link: nvidia/gp102/gr/fecs_bl.bin -> ../../gm200/gr/fecs_bl.bin
File: nvidia/gp102/gr/fecs_data.bin
File: nvidia/gp102/gr/fecs_inst.bin
File: nvidia/gp102/gr/fecs_sig.bin
Link: nvidia/gp102/gr/gpccs_bl.bin -> ../../gm200/gr/gpccs_bl.bin
File: nvidia/gp102/gr/gpccs_data.bin
File: nvidia/gp102/gr/gpccs_inst.bin
File: nvidia/gp102/gr/gpccs_sig.bin
File: nvidia/gp102/gr/sw_bundle_init.bin
File: nvidia/gp102/gr/sw_ctx.bin
File: nvidia/gp102/gr/sw_method_init.bin
File: nvidia/gp102/gr/sw_nonctx.bin
File: nvidia/gp102/nvdec/scrubber.bin
File: nvidia/gp102/sec2/desc.bin
File: nvidia/gp102/sec2/image.bin
File: nvidia/gp102/sec2/sig.bin
File: nvidia/gp102/sec2/desc-1.bin
File: nvidia/gp102/sec2/image-1.bin
File: nvidia/gp102/sec2/sig-1.bin
Link: nvidia/gp104/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp104/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp104/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp104/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
Link: nvidia/gp104/gr/fecs_bl.bin -> ../../gp102/gr/fecs_bl.bin
File: nvidia/gp104/gr/fecs_data.bin
File: nvidia/gp104/gr/fecs_inst.bin
File: nvidia/gp104/gr/fecs_sig.bin
```

Link: nvidia/gp104/gr/gpccs_bl.bin -> ../../gp102/gr/gpccs_bl.bin
File: nvidia/gp104/gr/gpccs_data.bin
File: nvidia/gp104/gr/gpccs_inst.bin
File: nvidia/gp104/gr/gpccs_sig.bin
Link: nvidia/gp104/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
Link: nvidia/gp104/gr/sw_ctx.bin -> ../../gp102/gr/sw_ctx.bin
Link: nvidia/gp104/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
Link: nvidia/gp104/gr/sw_nonctx.bin -> ../../gp102/gr/sw_nonctx.bin
Link: nvidia/gp104/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp104/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp104/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp104/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp104/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp104/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp104/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
Link: nvidia/gp106/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp106/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp106/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp106/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
Link: nvidia/gp106/gr/fecs_bl.bin -> ../../gp102/gr/fecs_bl.bin
File: nvidia/gp106/gr/fecs_data.bin
Link: nvidia/gp106/gr/fecs_inst.bin -> ../../gp102/gr/fecs_inst.bin
File: nvidia/gp106/gr/fecs_sig.bin
Link: nvidia/gp106/gr/gpccs_bl.bin -> ../../gp102/gr/gpccs_bl.bin
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Link: nvidia/gp106/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
Link: nvidia/gp106/gr/sw_nonctx.bin -> ../../gp102/gr/sw_nonctx.bin
Link: nvidia/gp106/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp106/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp106/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp106/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp106/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp106/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp106/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
Link: nvidia/gp107/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp107/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp107/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp107/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
File: nvidia/gp107/gr/fecs_bl.bin
File: nvidia/gp107/gr/fecs_data.bin
File: nvidia/gp107/gr/fecs_inst.bin
File: nvidia/gp107/gr/fecs_sig.bin
File: nvidia/gp107/gr/gpccs_bl.bin
File: nvidia/gp107/gr/gpccs_data.bin
File: nvidia/gp107/gr/gpccs_inst.bin
File: nvidia/gp107/gr/gpccs_sig.bin

Link: nvidia/gp107/gr/sw_bundle_init.bin -> ../../gp102/gr/sw_bundle_init.bin
File: nvidia/gp107/gr/sw_ctx.bin
Link: nvidia/gp107/gr/sw_method_init.bin -> ../../gp102/gr/sw_method_init.bin
File: nvidia/gp107/gr/sw_nonctx.bin
Link: nvidia/gp107/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp107/sec2/desc.bin -> ../../gp102/sec2/desc.bin
Link: nvidia/gp107/sec2/image.bin -> ../../gp102/sec2/image.bin
Link: nvidia/gp107/sec2/sig.bin -> ../../gp102/sec2/sig.bin
Link: nvidia/gp107/sec2/desc-1.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp107/sec2/image-1.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp107/sec2/sig-1.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gp10b/acr/bl.bin
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File: nvidia/gp10b/gr/fecs_bl.bin
File: nvidia/gp10b/gr/fecs_data.bin
File: nvidia/gp10b/gr/fecs_inst.bin
File: nvidia/gp10b/gr/fecs_sig.bin
File: nvidia/gp10b/gr/gpccs_bl.bin
File: nvidia/gp10b/gr/gpccs_data.bin
File: nvidia/gp10b/gr/gpccs_inst.bin
File: nvidia/gp10b/gr/gpccs_sig.bin
File: nvidia/gp10b/gr/sw_bundle_init.bin
File: nvidia/gp10b/gr/sw_ctx.bin
File: nvidia/gp10b/gr/sw_method_init.bin
File: nvidia/gp10b/gr/sw_nonctx.bin
File: nvidia/gp10b/pmu/desc.bin
File: nvidia/gp10b/pmu/image.bin
File: nvidia/gp10b/pmu/sig.bin
Link: nvidia/gp108/acr/bl.bin -> ../../gp102/acr/bl.bin
Link: nvidia/gp108/acr/ucode_load.bin -> ../../gp102/acr/ucode_load.bin
Link: nvidia/gp108/acr/ucode_unload.bin -> ../../gp102/acr/ucode_unload.bin
Link: nvidia/gp108/acr/unload_bl.bin -> ../../gp102/acr/unload_bl.bin
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File: nvidia/gp108/gr/fecs_inst.bin
File: nvidia/gp108/gr/fecs_sig.bin
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File: nvidia/gp108/gr/gpccs_data.bin
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File: nvidia/gp108/gr/gpccs_sig.bin
File: nvidia/gp108/gr/sw_bundle_init.bin
File: nvidia/gp108/gr/sw_ctx.bin
File: nvidia/gp108/gr/sw_method_init.bin
File: nvidia/gp108/gr/sw_nonctx.bin
Link: nvidia/gp108/nvdec/scrubber.bin -> ../../gp102/nvdec/scrubber.bin
Link: nvidia/gp108/sec2/desc.bin -> ../../gp102/sec2/desc-1.bin
Link: nvidia/gp108/sec2/image.bin -> ../../gp102/sec2/image-1.bin
Link: nvidia/gp108/sec2/sig.bin -> ../../gp102/sec2/sig-1.bin
File: nvidia/gv100/acr/bl.bin
File: nvidia/gv100/acr/ucode_load.bin

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File: nvidia/gv100/acr/unload_bl.bin
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File: nvidia/gv100/gr/fecs_sig.bin
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File: nvidia/gv100/gr/gpccs_inst.bin
File: nvidia/gv100/gr/gpccs_sig.bin
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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
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File: nvidia/gv100/sec2/sig.bin
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File: nvidia/tu102/acr/ucode_asb.bin
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File: nvidia/tu102/acr/ucode_unload.bin
File: nvidia/tu102/gr/fecs_bl.bin
File: nvidia/tu102/gr/fecs_data.bin
File: nvidia/tu102/gr/fecs_inst.bin
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File: nvidia/tu102/gr/sw_method_init.bin
File: nvidia/tu102/gr/sw_nonctx.bin
File: nvidia/tu102/gr/sw_veid_bundle_init.bin
File: nvidia/tu102/nvdec/scrubber.bin
File: nvidia/tu102/sec2/desc.bin
File: nvidia/tu102/sec2/image.bin
File: nvidia/tu102/sec2/sig.bin
Link: nvidia/tu104/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu104/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu104/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu104/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu104/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu104/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu104/gr/fecs_data.bin
File: nvidia/tu104/gr/fecs_inst.bin
File: nvidia/tu104/gr/fecs_sig.bin
Link: nvidia/tu104/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin

File: nvidia/tu104/gr/gpccs_data.bin
File: nvidia/tu104/gr/gpccs_inst.bin
File: nvidia/tu104/gr/gpccs_sig.bin
File: nvidia/tu104/gr/sw_bundle_init.bin
File: nvidia/tu104/gr/sw_ctx.bin
File: nvidia/tu104/gr/sw_method_init.bin
File: nvidia/tu104/gr/sw_nonctx.bin
File: nvidia/tu104/gr/sw_veid_bundle_init.bin
Link: nvidia/tu104/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu104/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu104/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu104/sec2/sig.bin -> ../../tu102/sec2/sig.bin
Link: nvidia/tu106/acr/bl.bin -> ../../tu102/acr/bl.bin
Link: nvidia/tu106/acr/ucode_ahesasc.bin -> ../../tu102/acr/ucode_ahesasc.bin
Link: nvidia/tu106/acr/ucode_asb.bin -> ../../tu102/acr/ucode_asb.bin
Link: nvidia/tu106/acr/unload_bl.bin -> ../../tu102/acr/unload_bl.bin
Link: nvidia/tu106/acr/ucode_unload.bin -> ../../tu102/acr/ucode_unload.bin
Link: nvidia/tu106/gr/fecs_bl.bin -> ../../tu102/gr/fecs_bl.bin
File: nvidia/tu106/gr/fecs_data.bin
File: nvidia/tu106/gr/fecs_inst.bin
File: nvidia/tu106/gr/fecs_sig.bin
Link: nvidia/tu106/gr/gpccs_bl.bin -> ../../tu102/gr/gpccs_bl.bin
File: nvidia/tu106/gr/gpccs_data.bin
File: nvidia/tu106/gr/gpccs_inst.bin
File: nvidia/tu106/gr/gpccs_sig.bin
File: nvidia/tu106/gr/sw_bundle_init.bin
File: nvidia/tu106/gr/sw_ctx.bin
File: nvidia/tu106/gr/sw_method_init.bin
File: nvidia/tu106/gr/sw_nonctx.bin
File: nvidia/tu106/gr/sw_veid_bundle_init.bin
Link: nvidia/tu106/nvdec/scrubber.bin -> ../../tu102/nvdec/scrubber.bin
Link: nvidia/tu106/sec2/desc.bin -> ../../tu102/sec2/desc.bin
Link: nvidia/tu106/sec2/image.bin -> ../../tu102/sec2/image.bin
Link: nvidia/tu106/sec2/sig.bin -> ../../tu102/sec2/sig.bin
File: nvidia/tu116/acr/bl.bin
File: nvidia/tu116/acr/ucode_ahesasc.bin
File: nvidia/tu116/acr/ucode_asb.bin
File: nvidia/tu116/acr/ucode_unload.bin
File: nvidia/tu116/acr/unload_bl.bin
File: nvidia/tu116/gr/fecs_bl.bin
File: nvidia/tu116/gr/fecs_data.bin
File: nvidia/tu116/gr/fecs_inst.bin
File: nvidia/tu116/gr/fecs_sig.bin
File: nvidia/tu116/gr/gpccs_bl.bin
File: nvidia/tu116/gr/gpccs_data.bin
File: nvidia/tu116/gr/gpccs_inst.bin
File: nvidia/tu116/gr/gpccs_sig.bin
File: nvidia/tu116/gr/sw_bundle_init.bin
File: nvidia/tu116/gr/sw_ctx.bin
File: nvidia/tu116/gr/sw_method_init.bin

File: nvidia/tu116/gr/sw_nonctx.bin
File: nvidia/tu116/gr/sw_veid_bundle_init.bin
File: nvidia/tu116/nvdec/scrubber.bin
File: nvidia/tu116/sec2/desc.bin
File: nvidia/tu116/sec2/image.bin
File: nvidia/tu116/sec2/sig.bin
Link: nvidia/tu117/acr/bl.bin -> ../../tu116/acr/bl.bin
Link: nvidia/tu117/acr/ucode_ahesasc.bin -> ../../tu116/acr/ucode_ahesasc.bin
Link: nvidia/tu117/acr/ucode_asb.bin -> ../../tu116/acr/ucode_asb.bin
Link: nvidia/tu117/acr/ucode_unload.bin -> ../../tu116/acr/ucode_unload.bin
Link: nvidia/tu117/acr/unload_bl.bin -> ../../tu116/acr/unload_bl.bin
Link: nvidia/tu117/gr/fecs_bl.bin -> ../../tu116/gr/fecs_bl.bin
File: nvidia/tu117/gr/fecs_data.bin
File: nvidia/tu117/gr/fecs_inst.bin
File: nvidia/tu117/gr/fecs_sig.bin
Link: nvidia/tu117/gr/gpccs_bl.bin -> ../../tu116/gr/gpccs_bl.bin
File: nvidia/tu117/gr/gpccs_data.bin
File: nvidia/tu117/gr/gpccs_inst.bin
File: nvidia/tu117/gr/gpccs_sig.bin
File: nvidia/tu117/gr/sw_bundle_init.bin
File: nvidia/tu117/gr/sw_ctx.bin
File: nvidia/tu117/gr/sw_method_init.bin
File: nvidia/tu117/gr/sw_nonctx.bin
File: nvidia/tu117/gr/sw_veid_bundle_init.bin
Link: nvidia/tu117/nvdec/scrubber.bin -> ../../tu116/nvdec/scrubber.bin
Link: nvidia/tu117/sec2/desc.bin -> ../../tu116/sec2/desc.bin
Link: nvidia/tu117/sec2/image.bin -> ../../tu116/sec2/image.bin
Link: nvidia/tu117/sec2/sig.bin -> ../../tu116/sec2/sig.bin
File: nvidia/ga102/acr/ucode_ahesasc.bin
File: nvidia/ga102/acr/ucode_asb.bin
File: nvidia/ga102/acr/ucode_unload.bin
File: nvidia/ga102/gr/fecs_bl.bin
File: nvidia/ga102/gr/fecs_sig.bin
File: nvidia/ga102/gr/gpccs_bl.bin
File: nvidia/ga102/gr/gpccs_sig.bin
File: nvidia/ga102/gr/NET_img.bin
File: nvidia/ga102/nvdec/scrubber.bin
File: nvidia/ga102/sec2/desc.bin
File: nvidia/ga102/sec2/hs_bl_sig.bin
File: nvidia/ga102/sec2/image.bin
File: nvidia/ga102/sec2/sig.bin
Link: nvidia/ga103/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga103/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga103/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga103/gr/fecs_bl.bin
File: nvidia/ga103/gr/fecs_sig.bin
File: nvidia/ga103/gr/gpccs_bl.bin
File: nvidia/ga103/gr/gpccs_sig.bin
File: nvidia/ga103/gr/NET_img.bin
Link: nvidia/ga103/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin

Link: nvidia/ga103/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga103/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga103/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga103/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga104/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga104/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga104/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga104/gr/fecs_bl.bin
File: nvidia/ga104/gr/fecs_sig.bin
File: nvidia/ga104/gr/gpccs_bl.bin
File: nvidia/ga104/gr/gpccs_sig.bin
File: nvidia/ga104/gr/NET_img.bin
Link: nvidia/ga104/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga104/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga104/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga104/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga104/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga106/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga106/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga106/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga106/gr/fecs_bl.bin
File: nvidia/ga106/gr/fecs_sig.bin
File: nvidia/ga106/gr/gpccs_bl.bin
File: nvidia/ga106/gr/gpccs_sig.bin
File: nvidia/ga106/gr/NET_img.bin
Link: nvidia/ga106/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga106/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga106/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga106/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga106/sec2/sig.bin -> ../../ga102/sec2/sig.bin
Link: nvidia/ga107/acr/ucode_ahesasc.bin -> ../../ga102/acr/ucode_ahesasc.bin
Link: nvidia/ga107/acr/ucode_asb.bin -> ../../ga102/acr/ucode_asb.bin
Link: nvidia/ga107/acr/ucode_unload.bin -> ../../ga102/acr/ucode_unload.bin
File: nvidia/ga107/gr/fecs_bl.bin
File: nvidia/ga107/gr/fecs_sig.bin
File: nvidia/ga107/gr/gpccs_bl.bin
File: nvidia/ga107/gr/gpccs_sig.bin
File: nvidia/ga107/gr/NET_img.bin
Link: nvidia/ga107/nvdec/scrubber.bin -> ../../ga102/nvdec/scrubber.bin
Link: nvidia/ga107/sec2/desc.bin -> ../../ga102/sec2/desc.bin
Link: nvidia/ga107/sec2/hs_bl_sig.bin -> ../../ga102/sec2/hs_bl_sig.bin
Link: nvidia/ga107/sec2/image.bin -> ../../ga102/sec2/image.bin
Link: nvidia/ga107/sec2/sig.bin -> ../../ga102/sec2/sig.bin

File: nvidia/tu10x/typec/ccg_primary.cyacd
File: nvidia/tu10x/typec/ccg_secondary.cyacd
File: nvidia/tu10x/typec/ccg_boot.cyacd

Firmware images needed for GSP-RM:

```
File: nvidia/tu102/gsp/bootloader-535.113.01.bin
File: nvidia/tu102/gsp/booter_load-535.113.01.bin
File: nvidia/tu102/gsp/booter_unload-535.113.01.bin
Link: nvidia/tu104/gsp -> ../tu102/gsp
Link: nvidia/tu106/gsp -> ../tu102/gsp

File: nvidia/tu116/gsp/booter_load-535.113.01.bin
File: nvidia/tu116/gsp/booter_unload-535.113.01.bin
Link: nvidia/tu116/gsp/bootloader-535.113.01.bin ->
../tu102/gsp/bootloader-535.113.01.bin
Link: nvidia/tu117/gsp -> ../tu116/gsp

File: nvidia/ga100/gsp/bootloader-535.113.01.bin
File: nvidia/ga100/gsp/booter_load-535.113.01.bin
File: nvidia/ga100/gsp/booter_unload-535.113.01.bin

File: nvidia/ad102/gsp/bootloader-535.113.01.bin
File: nvidia/ad102/gsp/booter_load-535.113.01.bin
File: nvidia/ad102/gsp/booter_unload-535.113.01.bin
Link: nvidia/ad103/gsp -> ../ad102/gsp
Link: nvidia/ad104/gsp -> ../ad102/gsp
Link: nvidia/ad106/gsp -> ../ad102/gsp
Link: nvidia/ad107/gsp -> ../ad102/gsp

File: nvidia/ga102/gsp/bootloader-535.113.01.bin
File: nvidia/ga102/gsp/booter_load-535.113.01.bin
File: nvidia/ga102/gsp/booter_unload-535.113.01.bin
Link: nvidia/ga103/gsp -> ../ga102/gsp
Link: nvidia/ga104/gsp -> ../ga102/gsp
Link: nvidia/ga106/gsp -> ../ga102/gsp
Link: nvidia/ga107/gsp -> ../ga102/gsp

File: nvidia/tu102/gsp/gsp-535.113.01.bin
Origin: gsp_tu10x.bin from NVIDIA-Linux-x86_64-535.113.01.run
Link: nvidia/tu116/gsp/gsp-535.113.01.bin -> ../tu102/gsp/gsp-535.113.01.bin
Link: nvidia/ga100/gsp/gsp-535.113.01.bin -> ../tu102/gsp/gsp-535.113.01.bin

File: nvidia/ga102/gsp/gsp-535.113.01.bin
Origin: gsp_ga10x.bin from NVIDIA-Linux-x86_64-535.113.01.run
Link: nvidia/ad102/gsp/gsp-535.113.01.bin -> ../ga102/gsp/gsp-535.113.01.bin

Licence: Redistributable. See LICENCE.nvidia for details

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Driver: wilc1000 - Atmel 802.11n WLAN driver for WILC1000

File: atmel/wilc1000_fw.bin
File: atmel/wilc1000_ap_fw.bin
File: atmel/wilc1000_p2p_fw.bin
```

File: atmel/wilc1000_wifi_firmware.bin
File: atmel/wilc1000_wifi_firmware-1.bin
Version: 16.0

License: Redistributable. See LICENSE.atmel for details

Driver: hfil - Intel OPA Gen 1 adapter

File: hfil_dc8051.fw
Version: 1.27.0
File: hfil_fabric.fw
Version: 0x1055
File: hfil_pcie.fw
Version: 0x4755
File: hfil_sbus.fw
Version: 0x10130001

Licence: Redistributable. See LICENSE.hfil_firmware for details

Driver: knav_qmss_queue - TI Keystone 2 QMSS driver

File: ti-keystone/ks2_qmss_pdsp_acc48_k2_le_1_0_0_9.bin

Licence: Redistributable. See LICENSE.ti-keystone for details.

Driver: mwlwifi - Marvell mac80211 driver for 80211ac cards.

File: mwlwifi/88W8864.bin
Version: 7.2.8.6

File: mwlwifi/88W8897.bin
Version: 8.2.0.10

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: mtk-vpu - MediaTek VPU video processing unit driver

File: mediatek/mt8173/vpu_d.bin
File: mediatek/mt8173/vpu_p.bin
Link: vpu_d.bin -> mediatek/mt8173/vpu_d.bin
Link: vpu_p.bin -> mediatek/mt8173/vpu_p.bin

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mtk_scp - MediaTek SCP System Control Processing Driver

File: mediatek/mt8183/scp.img

Version: v2.0.13324

File: mediatek/mt8186/scp.img

Version: v0.0.9

File: mediatek/mt8192/scp.img

Version: v2.0.20536

File: mediatek/mt8195/scp.img

Version: v2.0.21961

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: btmtk - MediaTek Bluetooth Driver

File: mediatek/mt7622pr2h.bin

Version: 20180621204904

File: mediatek/mt7668pr2h.bin

Version: 20180517181834

Note: explicitly commented out, since it's duplicated further down

File: mediatek/mt7663pr2h.bin

Version: 7663e2ccn04-2006030247

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: rk3399-dptx - ROCKCHIP rk3399 dptx firmware

File: rockchip/dptx.bin

Version: 3.1

Licence: Redistributable. See LICENCE.rockchip for details.

Driver: mt76x0 - MediaTek MT76x0 Wireless MACs

File: mediatek/mt7610u.bin

File: mediatek/mt7610e.bin

Version: 2.6

File: mediatek/mt7650e.bin

Version: 1.0.07-b370

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt76x2e - MediaTek MT76x2 Wireless MACs

File: mediatek/mt7662.bin
Version: 1.9
Link: mt7662.bin -> mediatek/mt7662.bin

File: mediatek/mt7662_rom_patch.bin
Version: 0.0.2_P69
Link: mt7662_rom_patch.bin -> mediatek/mt7662_rom_patch.bin

Licence: Redistributable. See LICENCE.ralink_a_mediatek_company_firmware for details

Driver: mt76x2u - MediaTek MT76x2u Wireless MACs

File: mediatek/mt7662u.bin
Version: 1.5

File: mediatek/mt7662u_rom_patch.bin
Version: 0.0.2_P48

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7615e - MediaTek MT7615e Wireless MACs

File: mediatek/mt7615_n9.bin
Version: 20200814
File: mediatek/mt7615_cr4.bin
Version: 20190114
File: mediatek/mt7615_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7622 - MediaTek MT7622 Wireless MACs

File: mediatek/mt7622_n9.bin
Version: 20200630
File: mediatek/mt7622_rom_patch.bin
Version: 20190114

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7663 - MediaTek MT7663 Wireless MACs

File: mediatek/mt7663pr2h.bin
Version: 7663e2ccn04-2006030247
File: mediatek/mt7663_n9_v3.bin
Version: v3.1.1

File: mediatek/mt7663pr2h_rebb.bin
Version: 7663e2-1802-19091404338b809
File: mediatek/mt7663_n9_rebb.bin
Version: 7663mp1827-20190914043434

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7915e - MediaTek Wireless MACs for MT7915/MT7916/MT7986/MT7981

File: mediatek/mt7915_wm.bin
Version: 20220929104145
File: mediatek/mt7915_wa.bin
Version: 20220929104205
File: mediatek/mt7915_rom_patch.bin
Version: 20220929104113a
File: mediatek/mt7915_eeprom.bin
Version: 20200821
File: mediatek/mt7915_eeprom_dbdc.bin
Version: 20200821

File: mediatek/mt7916_wm.bin
Version: 20230202145005
File: mediatek/mt7916_wa.bin
Version: 20230202143332
File: mediatek/mt7916_rom_patch.bin
Version: 20230202144915a
File: mediatek/mt7916_eeprom.bin
Version: 20211130

File: mediatek/mt7986_wm.bin
Version: 20221012174725
File: mediatek/mt7986_wm_mt7975.bin
Version: 20221012174805
File: mediatek/mt7986_wa.bin
Version: 20221012174937
File: mediatek/mt7986_rom_patch.bin
Version: 20221012174648a

File: mediatek/mt7986_rom_patch_mt7975.bin
Version: 20221012174743a
File: mediatek/mt7986_wo_0.bin
Version: 20221012175005
File: mediatek/mt7986_wo_1.bin
Version: 20221012175032
File: mediatek/mt7986_eeprom_mt7976.bin
Version: 20211105
File: mediatek/mt7986_eeprom_mt7976_dbdc.bin
Version: 20220223
File: mediatek/mt7986_eeprom_mt7976_dual.bin
Version: 20211115
File: mediatek/mt7986_eeprom_mt7975_dual.bin
Version: 20220208

File: mediatek/mt7981_wm.bin
Version: 20221208201806
File: mediatek/mt7981_wa.bin
Version: 20221208202048
File: mediatek/mt7981_rom_patch.bin
Version: 20221208201745a
File: mediatek/mt7981_wo.bin
Version: 20221208202138

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7921 - MediaTek MT7921 Wireless MACs

File: mediatek/WIFI_MT7961_patch_mcu_1_2_hdr.bin
Version: 20231109190918a
File: mediatek/WIFI_RAM_CODE_MT7961_1.bin
Version: 20231109190959

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7921 - MediaTek MT7921 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7961_1_2_hdr.bin
Version: 20231109191416

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7922 - MediaTek MT7922 Wireless MACs

File: mediatek/WIFI_MT7922_patch_mcu_1_1_hdr.bin
Version: 20231120183400a
File: mediatek/WIFI_RAM_CODE_MT7922_1.bin
Version: 20231120183441

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7922 - MediaTek MT7922 bluetooth chipset

File: mediatek/BT_RAM_CODE_MT7922_1_1_hdr.bin
Version: 20231120183620

Licence: Redistributable. See LICENCE.mediatek for details.

Driver: mt7988 - MediaTek MT7988 Internal 2.5G Ethernet Phy

File: mediatek/mt7988/i2p5ge-phy-pmb.bin
Version: 20230728

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_AMDAA0097-0001_8x10.nffw
File: netronome/nic/nic_AMDAA0058-0011_2x40.nffw
File: netronome/nic/nic_AMDAA0058-0012_2x40.nffw
File: netronome/nic/nic_AMDAA0078-0011_1x100.nffw
File: netronome/nic-sriov/nic_AMDAA0081-0001_1x40.nffw
File: netronome/nic-sriov/nic_AMDAA0097-0001_2x40.nffw
File: netronome/nic-sriov/nic_AMDAA0099-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDAA0081-0001_4x10.nffw
File: netronome/nic-sriov/nic_AMDAA0097-0001_4x10_1x40.nffw
File: netronome/nic-sriov/nic_AMDAA0099-0001_1x10_1x25.nffw
File: netronome/nic-sriov/nic_AMDAA0099-0001_2x25.nffw
File: netronome/nic-sriov/nic_AMDAA0096-0001_2x10.nffw
File: netronome/nic-sriov/nic_AMDAA0097-0001_8x10.nffw
File: netronome/nic-sriov/nic_AMDAA0058-0011_2x40.nffw
File: netronome/nic-sriov/nic_AMDAA0058-0012_2x40.nffw
File: netronome/nic-sriov/nic_AMDAA0078-0011_1x100.nffw

Version: v2.1.16.1

File: netronome/flower/nic_AMDAA0099.nffw
File: netronome/flower/nic_AMDAA0096.nffw
File: netronome/flower/nic_AMDAA0097.nffw
File: netronome/flower/nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0081.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0081-0001_1x40.nffw -> nic_AMDAA0081.nffw
Link: netronome/flower/nic_AMDAA0097-0001_2x40.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0099-0001_2x10.nffw -> nic_AMDAA0099.nffw
Link: netronome/flower/nic_AMDAA0081-0001_4x10.nffw -> nic_AMDAA0081.nffw
Link: netronome/flower/nic_AMDAA0097-0001_4x10_1x40.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0099-0001_2x25.nffw -> nic_AMDAA0099.nffw
Link: netronome/flower/nic_AMDAA0096-0001_2x10.nffw -> nic_AMDAA0096.nffw
Link: netronome/flower/nic_AMDAA0097-0001_8x10.nffw -> nic_AMDAA0097.nffw
Link: netronome/flower/nic_AMDAA0099-0001_1x10_1x25.nffw -> nic_AMDAA0099.nffw
Link: netronome/flower/nic_AMDAA0058-0011_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0011_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0011_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0011_8x10.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0058-0012_8x10.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0011_8x10.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_1x100.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_2x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_4x10_1x40.nffw -> nic_AMDAA0058.nffw
Link: netronome/flower/nic_AMDAA0078-0012_8x10.nffw -> nic_AMDAA0058.nffw

Version: AOTC-2.14.A.6

File: netronome/bpf/nic_AMDAA0081-0001_1x40.nffw
File: netronome/bpf/nic_AMDAA0097-0001_2x40.nffw
File: netronome/bpf/nic_AMDAA0099-0001_2x10.nffw
File: netronome/bpf/nic_AMDAA0081-0001_4x10.nffw
File: netronome/bpf/nic_AMDAA0097-0001_4x10_1x40.nffw
File: netronome/bpf/nic_AMDAA0099-0001_1x10_1x25.nffw
File: netronome/bpf/nic_AMDAA0099-0001_2x25.nffw
File: netronome/bpf/nic_AMDAA0096-0001_2x10.nffw
File: netronome/bpf/nic_AMDAA0097-0001_8x10.nffw
File: netronome/bpf/nic_AMDAA0058-0011_2x40.nffw
File: netronome/bpf/nic_AMDAA0058-0012_2x40.nffw
File: netronome/bpf/nic_AMDAA0078-0011_1x100.nffw

Version: v2.0.6.124

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

Driver: venus - Qualcomm Venus video codec accelerator

File: qcom/venus-1.8/venus.mbn
Link: qcom/venus-1.8/venus.mdt -> venus.mbn

Version: 1.8-00109

File: qcom/venus-4.2/venus.mbn
Link: qcom/venus-4.2/venus.mdt -> venus.mbn

Version: 4.2

File: qcom/venus-5.2/venus.mbn
Link: qcom/venus-5.2/venus.mdt -> venus.mbn

Version: 5.2-00023

File: qcom/venus-5.4/venus.mbn

Link: qcom/venus-5.4/venus.mdt -> venus.mbn

Version: 5.4-00053

File: qcom/venus-6.0/venus.mbn

Version: VIDEO.VE.6.0-00049-PROD-1

File: qcom/vpu-1.0/venus.mbn

Link: qcom/vpu-1.0/venus.mdt -> venus.mbn

Version: VIDEO.VPU.1.0-00087-PROD-1

File: qcom/vpu-2.0/venus.mbn

Version: VIDEO.VPU.2.0-00049-PROD-1

Licence: Redistributable. See LICENSE.qcom and qcom/NOTICE.txt for details

Binary files supplied originally from

<https://developer.qualcomm.com/hardware/dragonboard-410c/tools>

Driver: imx-sdma - support for i.MX SDMA driver

File: imx/sdma/sdma-imx6q.bin

Version: 3.3

File: imx/sdma/sdma-imx7d.bin

Version: 4.2

Licence: Redistributable. See LICENSE.sdma_firmware for details

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/a300_pfp.fw

Link: a300_pfp.fw -> qcom/a300_pfp.fw

File: qcom/a300_pm4.fw

Link: a300_pm4.fw -> qcom/a300_pm4.fw

File: qcom/a330_pfp.fw

File: qcom/a330_pm4.fw

File: qcom/a420_pfp.fw

File: qcom/a420_pm4.fw

File: qcom/a530_pfp.fw

File: qcom/a530_pm4.fw

File: qcom/a530v3_gpmu.fw2

File: qcom/apq8096/a530_zap.mbn

Link: qcom/a530_zap.mdt -> apq8096/a530_zap.mbn

File: qcom/a630_gmu.bin
File: qcom/a630_sqe.fw
File: qcom/sdm845/a630_zap.mbn
File: qcom/a650_gmu.bin
File: qcom/a650_sqe.fw
File: qcom/sm8250/a650_zap.mbn
File: qcom/a660_gmu.bin
File: qcom/a660_sqe.fw
File: qcom/a702_sqe.fw
File: qcom/leia_pfp_470.fw
File: qcom/leia_pm4_470.fw
File: qcom/sc8280xp/LENOVO/21BX/qcdxkmsuc8280.mbn

Licence: Redistributable. See LICENSE.qcom and qcom/NOTICE.txt for details

Binary files supplied originally from
<https://developer.qualcomm.com/hardware/dragonboard-410c/tools>

Driver: adreno - Qualcomm Adreno GPU firmware

File: qcom/yamato_pfp.fw
File: qcom/yamato_pm4.fw

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Binary files generated from header files in EfikaMX kernel sources. A prefix of four zero bytes was prepended to make them work with the DRM MSM driver. See
<https://github.com/genesi/linux-legacy/tree/master/drivers/mxc/amd-gpu>

Driver: qcom_q6v5_pas - Qualcomm remoteproc firmware

File: qcom/apq8016/mba.mbn
File: qcom/apq8016/modem.mbn
File: qcom/apq8016/wcnss.mbn
File: qcom/apq8016/WCNSS_qcom_wlan_nv_sbc.bin
File: qcom/apq8096/adsp.mbn
RawFile: qcom/apq8096/adspr.jsn
RawFile: qcom/apq8096/adspua.jsn
File: qcom/apq8096/mba.mbn
File: qcom/apq8096/modem.mbn
RawFile: qcom/apq8096/modemr.jsn
File: qcom/qcm2290/a702_zap.mbn
File: qcom/qcm2290/adsp.mbn
RawFile: qcom/qcm2290/adspr.jsn
RawFile: qcom/qcm2290/adsp.jsn
RawFile: qcom/qcm2290/adspua.jsn

File: qcom/qcm2290/modem.mbn
RawFile: qcom/qcm2290/modemr.jsn
RawFile: qcom/qcm2290/modemuw.jsn
File: qcom/qcm2290/wlanmdsp.mbn
File: qcom/qrb4210/a610_zap.mbn
File: qcom/qrb4210/adsp.mbn
RawFile: qcom/qrb4210/adspr.jsn
RawFile: qcom/qrb4210/adsp.jsn
RawFile: qcom/qrb4210/adspua.jsn
File: qcom/qrb4210/cdsp.mbn
RawFile: qcom/qrb4210/cdspr.jsn
File: qcom/qrb4210/modem.mbn
RawFile: qcom/qrb4210/modemr.jsn
RawFile: qcom/qrb4210/modemuw.jsn
Link: qcom/qrb4210/wlanmdsp.mbn -> ../qcm2290/wlanmdsp.mbn
File: qcom/sdm845/adsp.mbn
RawFile: qcom/sdm845/adspr.jsn
RawFile: qcom/sdm845/adspua.jsn
File: qcom/sdm845/cdsp.mbn
RawFile: qcom/sdm845/cdspr.jsn
File: qcom/sdm845/Thundercomm/db845c/slpi.mbn
RawFile: qcom/sdm845/Thundercomm/db845c/slpir.jsn
RawFile: qcom/sdm845/Thundercomm/db845c/slpius.jsn
File: qcom/sm8250/adsp.mbn
RawFile: qcom/sm8250/adspr.jsn
RawFile: qcom/sm8250/adspua.jsn
File: qcom/sm8250/cdsp.mbn
RawFile: qcom/sm8250/cdspr.jsn
File: qcom/sm8250/Thundercomm/RB5/slpi.mbn
RawFile: qcom/sm8250/Thundercomm/RB5/slpir.jsn
RawFile: qcom/sm8250/Thundercomm/RB5/slpius.jsn
RawFile: qcom/sc8280xp/LENOVO/21BX/adspr.jsn
RawFile: qcom/sc8280xp/LENOVO/21BX/adspua.jsn
RawFile: qcom/sc8280xp/LENOVO/21BX/battmgr.jsn
RawFile: qcom/sc8280xp/LENOVO/21BX/cdspr.jsn
File: qcom/sc8280xp/LENOVO/21BX/qcadsp8280.mbn
File: qcom/sc8280xp/LENOVO/21BX/qccdsp8280.mbn
File: qcom/sc8280xp/LENOVO/21BX/qcslpi8280.mbn

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Binary files supplied originally from
<http://releases.linaro.org/96boards/dragonboard410c/qualcomm/firmware/linux-board-support-package-r1036.1.zip>
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20221121000000-v5.zip
https://releases.linaro.org/96boards/rb1/qualcomm/firmware/RB1_firmware_20230823-v2.zip
https://releases.linaro.org/96boards/rb2/qualcomm/firmware/RB2_firmware_20230823-v2.zip

http://releases.linaro.org/96boards/rb5/qualcomm/firmware/RB5_firmware_20210331-v4.zip

adsp.mbn has been converted from 20-adsp_split/firmware/adsp.* using
<https://github.com/andersson/pil-squasher>

cdsp.mbn has been converted from 21-cdsp_split/firmware/cdsp.* using
<https://github.com/andersson/pil-squasher>

Driver: qcom_q6v5_mss - Qualcomm modem subsystem firmware

File: qcom/sdm845/mba.mbn
File: qcom/sdm845/modem_nm.mbn
RawFile: qcom/sdm845/modemuw.jsn
Link: qcom/sdm845/modem.mbn -> modem_nm.mbn

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Binary files supplied originally from
http://releases.linaro.org/96boards/dragonboard845c/qualcomm/firmware/RB3_firmware_20221121000000-v5.zip

modem.mbn has been converted from 28-modem/modem.* using
<https://github.com/andersson/pil-squasher>

Driver: mlxsw_spectrum - Mellanox Spectrum switch

File: mellanox/mlxsw_spectrum-13.1420.122.mfa2
File: mellanox/mlxsw_spectrum-13.1530.152.mfa2
File: mellanox/mlxsw_spectrum-13.1620.192.mfa2
File: mellanox/mlxsw_spectrum-13.1702.6.mfa2
File: mellanox/mlxsw_spectrum-13.1703.4.mfa2
File: mellanox/mlxsw_spectrum-13.1910.622.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1122.mfa2
File: mellanox/mlxsw_spectrum-13.2000.1886.mfa2
File: mellanox/mlxsw_spectrum-13.2000.2308.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2308.mfa2
File: mellanox/mlxsw_spectrum-13.2000.2714.mfa2
File: mellanox/mlxsw_spectrum2-29.2000.2714.mfa2
File: mellanox/mlxsw_spectrum-13.2007.1168.mfa2
File: mellanox/mlxsw_spectrum2-29.2007.1168.mfa2
File: mellanox/mlxsw_spectrum3-30.2007.1168.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1036.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1036.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1036.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1310.mfa2

File: mellanox/mlxsw_spectrum2-29.2008.1310.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1310.mfa2
File: mellanox/mlxsw_spectrum-13.2008.1312.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.1312.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.1312.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2018.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2018.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2018.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2304.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2304.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2304.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2406.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2406.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2406.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2438.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2438.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2438.mfa2
File: mellanox/mlxsw_spectrum-13.2008.2946.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.2946.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.2946.mfa2
File: mellanox/mlxsw_spectrum-13.2008.3326.mfa2
File: mellanox/mlxsw_spectrum2-29.2008.3326.mfa2
File: mellanox/mlxsw_spectrum3-30.2008.3326.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1006.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1006.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1006.mfa2
File: mellanox/lc_ini_bundle_2010_1006.bin
File: mellanox/mlxsw_spectrum-13.2010.1232.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1232.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1232.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1406.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1406.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1406.mfa2
File: mellanox/mlxsw_spectrum-13.2010.1502.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.1502.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.1502.mfa2
File: mellanox/lc_ini_bundle_2010_1502.bin
File: mellanox/mlxsw_spectrum-13.2010.3020.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.3020.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.3020.mfa2
File: mellanox/lc_ini_bundle_2010_3020.bin
File: mellanox/mlxsw_spectrum-13.2010.3146.mfa2
File: mellanox/mlxsw_spectrum2-29.2010.3146.mfa2
File: mellanox/mlxsw_spectrum3-30.2010.3146.mfa2
File: mellanox/lc_ini_bundle_2010_3146.bin
File: mellanox/mlxsw_spectrum-13.2012.1012.mfa2
File: mellanox/mlxsw_spectrum2-29.2012.1012.mfa2
File: mellanox/mlxsw_spectrum3-30.2012.1012.mfa2
File: mellanox/mlxsw_spectrum4-34.2012.1012.mfa2

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Driver: cdns-mhdp - Cadence MHDP8546 DP bridge

File: cadence/mhdp8546.bin

Version: 2.1.0

Licence: Redistributable. See LICENCE.cadence for details

Driver: fsl-mc bus - NXP Management Complex Bus Driver

File: dpaa2/mc/mc_10.10.0_ls1088a.itb

File: dpaa2/mc/mc_10.10.0_ls2088a.itb

File: dpaa2/mc/mc_10.10.0_lx2160a.itb

File: dpaa2/mc/mc_10.14.3_ls1088a.itb

File: dpaa2/mc/mc_10.14.3_ls2088a.itb

File: dpaa2/mc/mc_10.14.3_lx2160a.itb

File: dpaa2/mc/mc_10.16.2_ls1088a.itb
File: dpaa2/mc/mc_10.16.2_ls2088a.itb
File: dpaa2/mc/mc_10.16.2_lx2160a.itb
File: dpaa2/mc/mc_10.18.0_ls1088a.itb
File: dpaa2/mc/mc_10.18.0_ls2088a.itb
File: dpaa2/mc/mc_10.18.0_lx2160a.itb
File: dpaa2/mc/mc_10.28.1_ls1088a.itb
File: dpaa2/mc/mc_10.28.1_ls2088a.itb
File: dpaa2/mc/mc_10.28.1_lx2160a.itb

Licence: Redistributable. See LICENSE.nxp_mc_firmware for details

Driver: mscv-phy - Microchip PHY drivers

File: microchip/mscc_vsc8574_revb_int8051_29e8.bin
File: microchip/mscc_vsc8584_revb_int8051_fb48.bin

Licence: Redistributable. See LICENSE.microchip for details

Driver: meson-vdec - Amlogic video decoder

File: meson/vdec/g12a_h264.bin
File: meson/vdec/g12a_hevc_mmu.bin
File: meson/vdec/g12a_vp9.bin
File: meson/vdec/gxbb_h264.bin
File: meson/vdec/gxl_h263.bin
File: meson/vdec/gxl_h264.bin
File: meson/vdec/gxl_hevc.bin
File: meson/vdec/gxl_hevc_mmu.bin
File: meson/vdec/gxl_mjpeg.bin
File: meson/vdec/gxl_mpeg12.bin
File: meson/vdec/gxl_mpeg4_5.bin
File: meson/vdec/gxl_vp9.bin
File: meson/vdec/gxm_h264.bin
File: meson/vdec/sml_hevc_mmu.bin
File: meson/vdec/sml_vp9_mmu.bin

Licence: Redistributable. See LICENSE.amlogic_vdec for details.

Driver: ice - Intel(R) Ethernet Connection E800 Series

File: intel/ice/ddp/ice-1.3.35.0.pkg
Link: intel/ice/ddp/ice.pkg -> ice-1.3.35.0.pkg
File: intel/ice/ddp-lag/ice_lag-1.3.1.0.pkg

License: Redistributable. See LICENSE.ice for details

File: intel/ice/ddp-comms/ice_comms-1.3.45.0.pkg

File: intel/ice/ddp-wireless_edge/ice_wireless_edge-1.3.13.0.pkg

License: Redistributable. See LICENSE.ice_enhanced for details

Driver: inside-secure -- Inside Secure EIP197 crypto driver

File: inside-secure/eip197_minifw/ipue.bin

File: inside-secure/eip197_minifw/ifpp.bin

Licence: Redistributable.

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Driver: presteria - Marvell driver for Presteria family ASIC devices

File: mrvl/presteria/mvsw_prestera_fw-v2.0.img

File: mrvl/presteria/mvsw_prestera_fw-v3.0.img

File: mrvl/presteria/mvsw_prestera_fw-v4.0.img

File: mrvl/presteria/mvsw_prestera_fw-v4.1.img

File: mrvl/presteria/mvsw_prestera_fw_arm64-v4.1.img

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: lt961luxc - Lontium DSI to HDMI bridge

File: lt961luxc_fw.bin

License: Redistributable. See LICENSE.Lontium for details.

Driver: wfx - Silicon Labs Wi-Fi Transceiver

File: wfx/wfm_wf200_C0.sec

Version: 3.17

File: wfx/brd4001a.pds

File: wfx/brd8022a.pds

File: wfx/brd8023a.pds

Licence: Redistributable. See wfx/LICENCE.wf200 for details.

The firmware itself originates from <https://github.com/SiliconLabs/wfx-firmware>

The *.pds files come from <https://github.com/SiliconLabs/wfx-pds>

They have been processed with the tool "pds_compress" available on
<https://github.com/SiliconLabs/wfx-linux-tools>

Driver: wave5 - Chips&Media, Inc. video codec driver

File: cnm/wave521c_k3_codec_fw.bin

Licence: Redistributable. See LICENCE.cnm for details.

Driver: rvu_cptpf - Marvell CPT driver

File: mrvl/cpt01/ae.out

File: mrvl/cpt01/se.out

File: mrvl/cpt01/ie.out

File: mrvl/cpt02/ae.out

File: mrvl/cpt02/se.out

File: mrvl/cpt02/ie.out

File: mrvl/cpt03/ae.out

File: mrvl/cpt03/se.out

File: mrvl/cpt03/ie.out

File: mrvl/cpt04/ae.out

File: mrvl/cpt04/se.out

File: mrvl/cpt04/ie.out

Version: v1.21

Licence: Redistributable. See LICENCE.Marvell for details.

Driver: amphion - Amphion VPU (Video Processing Unit) Codec IP driver

File: amphion/vpu/vpu_fw_imx8_dec.bin

Version: 1.8.8

File: amphion/vpu/vpu_fw_imx8_enc.bin

Version: 1.3.4

Licence: Redistributable. See LICENSE.amphion_vpu for details

Driver: cs35141_hda - CS35141 ALSA HDA audio driver

File: cirrus/cs35141-dsp1-spk-prot.wmfw
File: cirrus/cs35141-dsp1-spk-prot.bin
File: cirrus/cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c8971.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c8971.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c8972.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c8972.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c8973.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c8973.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c8974.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c8974.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c8975.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c8975.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c896e.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c896e.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c89c3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c89c3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c8981.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c8981.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c898e.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c898e.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c898f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-103c898f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-103c8991.wmfw ->

cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8991.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8992.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8992.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8994.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8994.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8995.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8995.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c89c6.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c89c6.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-prot-103c8971.bin
File: cirrus/cs35141-dspl-spk-cali-103c8971.bin
File: cirrus/cs35141-dspl-spk-prot-103c8972.bin
File: cirrus/cs35141-dspl-spk-cali-103c8972.bin
File: cirrus/cs35141-dspl-spk-prot-103c8973.bin
File: cirrus/cs35141-dspl-spk-cali-103c8973.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8974.bin ->
cs35141-dspl-spk-prot-103c8972.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8974.bin ->
cs35141-dspl-spk-cali-103c8972.bin
File: cirrus/cs35141-dspl-spk-prot-103c8975-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c8975-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c8975-10.bin
File: cirrus/cs35141-dspl-spk-cali-103c8975-10.bin
File: cirrus/cs35141-dspl-spk-prot-103c896e-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c896e-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c896e-10.bin
File: cirrus/cs35141-dspl-spk-cali-103c896e-10.bin
Link: cirrus/cs35141-dspl-spk-prot-103c898e.bin ->
cs35141-dspl-spk-prot-103c8971.bin
Link: cirrus/cs35141-dspl-spk-cali-103c898e.bin ->
cs35141-dspl-spk-cali-103c8971.bin
Link: cirrus/cs35141-dspl-spk-prot-103c898f.bin ->
cs35141-dspl-spk-prot-103c8971.bin
Link: cirrus/cs35141-dspl-spk-cali-103c898f.bin ->
cs35141-dspl-spk-cali-103c8971.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8991.bin ->
cs35141-dspl-spk-prot-103c8972.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8991.bin ->
cs35141-dspl-spk-cali-103c8972.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8992.bin ->


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cs35141-dspl-spk-prot-103c8972.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8992.bin ->
cs35141-dspl-spk-cali-103c8972.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8994.bin ->
cs35141-dspl-spk-prot-103c8973.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8994.bin ->
cs35141-dspl-spk-cali-103c8973.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8995.bin ->
cs35141-dspl-spk-prot-103c8973.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8995.bin ->
cs35141-dspl-spk-cali-103c8973.bin
File: cirrus/cs35141-dspl-spk-prot-103c89c6-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c89c6-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c89c6-l0.bin
File: cirrus/cs35141-dspl-spk-cali-103c89c6-l0.bin
File: cirrus/cs35141-dspl-spk-prot-103c89c3-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c89c3-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c89c3-r1.bin
File: cirrus/cs35141-dspl-spk-cali-103c89c3-r1.bin
Link: cirrus/cs35141-dspl-spk-prot-103c89c3-l0.bin ->
cs35141-dspl-spk-prot-103c89c3-r0.bin
Link: cirrus/cs35141-dspl-spk-cali-103c89c3-l0.bin ->
cs35141-dspl-spk-cali-103c89c3-r0.bin
Link: cirrus/cs35141-dspl-spk-prot-103c89c3-l1.bin ->
cs35141-dspl-spk-prot-103c89c3-r1.bin
Link: cirrus/cs35141-dspl-spk-cali-103c89c3-l1.bin ->
cs35141-dspl-spk-cali-103c89c3-r1.bin
File: cirrus/cs35141-dspl-spk-prot-103c8981-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c8981-r1.bin
File: cirrus/cs35141-dspl-spk-prot-103c8981-l0.bin
File: cirrus/cs35141-dspl-spk-prot-103c8981-l1.bin
File: cirrus/cs35141-dspl-spk-cali-103c8981-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c8981-r1.bin
File: cirrus/cs35141-dspl-spk-cali-103c8981-l0.bin
File: cirrus/cs35141-dspl-spk-cali-103c8981-l1.bin
File: cirrus/cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8c46.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8c46.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8c47.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8c47.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8c48.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8c48.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8c49.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
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Link: cirrus/cs35141-dspl-spk-cali-103c8c49.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8c70.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8c70.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8c71.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8c71.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8c72.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8c72.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
File: cirrus/cs35141-dspl-spk-prot-103c8c46.bin
File: cirrus/cs35141-dspl-spk-cali-103c8c46.bin
File: cirrus/cs35141-dspl-spk-prot-103c8c47.bin
File: cirrus/cs35141-dspl-spk-cali-103c8c47.bin
File: cirrus/cs35141-dspl-spk-prot-103c8c48.bin
File: cirrus/cs35141-dspl-spk-cali-103c8c48.bin
File: cirrus/cs35141-dspl-spk-prot-103c8c49.bin
File: cirrus/cs35141-dspl-spk-cali-103c8c49.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8c70.bin ->
cs35141-dspl-spk-prot-103c8c46.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8c70.bin ->
cs35141-dspl-spk-cali-103c8c46.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8c71.bin ->
cs35141-dspl-spk-prot-103c8c47.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8c71.bin ->
cs35141-dspl-spk-cali-103c8c47.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8c72.bin ->
cs35141-dspl-spk-prot-103c8c48.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8c72.bin ->
cs35141-dspl-spk-cali-103c8c48.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8ca4.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8ca4.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8ca7.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8ca7.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf
File: cirrus/cs35141-dspl-spk-prot-103c8ca4.bin
File: cirrus/cs35141-dspl-spk-cali-103c8ca4.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8ca7.wmf ->
cs35141-dspl-spk-prot-103c8ca4.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8ca7.wmf ->
cs35141-dspl-spk-cali-103c8ca4.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8ca7.wmf ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmf

Link: cirrus/cs35141-dsp1-spk-cali-103c8ca7.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
File: cirrus/cs35141-dsp1-spk-prot-103c8cf5-10.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8cf5-10.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8cf5-11.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8cf5-11.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8cf5-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8cf5-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-103c8cf5-r1.bin
File: cirrus/cs35141-dsp1-spk-cali-103c8cf5-r1.bin
File: cirrus/cs35141/v6.39.0/halo_cspl_RAM_revB2_29.41.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa3847.wmfw ->
cs35141/v6.39.0/halo_cspl_RAM_revB2_29.41.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa3847.wmfw ->
cs35141/v6.39.0/halo_cspl_RAM_revB2_29.41.0.wmfw
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa3847-spki0.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3847-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa3847-spki1.bin
File: cirrus/cs35141/v6.47.0/halo_cspl_RAM_revB2_29.49.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa3855.wmfw ->
cs35141/v6.47.0/halo_cspl_RAM_revB2_29.49.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa3855.wmfw ->
cs35141/v6.47.0/halo_cspl_RAM_revB2_29.49.0.wmfw
File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa3855-spki0.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa3855-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa3855-spki1.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f1.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f1.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f2.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f2.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-17aa22f1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa22f1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa22f2-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa22f2-r0.bin

File: cirrus/cs35141-dsp1-spk-cali-17aa22f2-10.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa22f2-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f3-10.bin ->
cs35141-dsp1-spk-prot-17aa22f2-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa22f3-r0.bin ->
cs35141-dsp1-spk-prot-17aa22f2-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f3-10.bin ->
cs35141-dsp1-spk-cali-17aa22f2-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa22f3-r0.bin ->
cs35141-dsp1-spk-cali-17aa22f2-r0.bin
File: cirrus/cs35141/v6.63.0/halo_cspl_RAM_revB2_29.65.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-104312af.wmfw ->
cs35141/v6.63.0/halo_cspl_RAM_revB2_29.65.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-104312af.wmfw ->
cs35141/v6.63.0/halo_cspl_RAM_revB2_29.65.0.wmfw
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-104312af-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-104312af-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431a8f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431a8f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a8f-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a8f-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431e02.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431e02.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431e02-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431e02-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431f12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431f12.wmfw ->

cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-cali-10431f12-spkid0-10.bin
File: cirrus/cs35141-dspl-spk-cali-10431f12-spkid0-r0.bin
File: cirrus/cs35141-dspl-spk-cali-10431f12-spkid1-10.bin
File: cirrus/cs35141-dspl-spk-cali-10431f12-spkid1-r0.bin
File: cirrus/cs35141-dspl-spk-prot-10431f12-spkid0-10.bin
File: cirrus/cs35141-dspl-spk-prot-10431f12-spkid0-r0.bin
File: cirrus/cs35141-dspl-spk-prot-10431f12-spkid1-10.bin
File: cirrus/cs35141-dspl-spk-prot-10431f12-spkid1-r0.bin
Link: cirrus/cs35141-dspl-spk-prot-10431e12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431e12.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-cali-10431e12-spkid0-10.bin
File: cirrus/cs35141-dspl-spk-cali-10431e12-spkid0-r0.bin
File: cirrus/cs35141-dspl-spk-cali-10431e12-spkid1-10.bin
File: cirrus/cs35141-dspl-spk-cali-10431e12-spkid1-r0.bin
File: cirrus/cs35141-dspl-spk-prot-10431e12-spkid0-10.bin
File: cirrus/cs35141-dspl-spk-prot-10431e12-spkid0-r0.bin
File: cirrus/cs35141-dspl-spk-prot-10431e12-spkid1-10.bin
File: cirrus/cs35141-dspl-spk-prot-10431e12-spkid1-r0.bin
File: cirrus/cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431573.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431573.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431463.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431463.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431483.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431483.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431663.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431663.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431473.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431473.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431493.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431493.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431533.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431533.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw

Link: cirrus/cs35141-dspl-spk-prot-10431433.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431433.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431caf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431caf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431cef.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431cef.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-104314d3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-104314d3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431c9f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431c9f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431cdf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431cdf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431ccf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431ccf.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431503.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431503.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-104314e3.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-104314e3.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-10431d1f.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spk-cali-10431d1f.wmfw ->
cs35141/v6.78.0/halo_cspl_RAM_revB2_29.80.0.wmfw
Link: cirrus/cs35141-dspl-spk-prot-104317f3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-104317f3.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-prot-10431c9f-spkid0-10.bin
File: cirrus/cs35141-dspl-spk-cali-10431c9f-spkid0-10.bin
File: cirrus/cs35141-dspl-spk-prot-10431c9f-spkid0-r0.bin
File: cirrus/cs35141-dspl-spk-cali-10431c9f-spkid0-r0.bin
File: cirrus/cs35141-dspl-spk-prot-10431c9f-spkid1-10.bin
File: cirrus/cs35141-dspl-spk-cali-10431c9f-spkid1-10.bin

File: cirrus/cs35141-dsp1-spk-prot-10431c9f-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c9f-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431caf-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431caf-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431503-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431503-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431ccf-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431ccf-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431cef-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431cef-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431463-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431463-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431483-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431483-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431483-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431483-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431473-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431473-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431473-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431473-r0.bin

File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431533-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431533-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431433-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431433-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431573-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431573-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-104317f3-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-104317f3-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431493-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431493-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431663-10.bin ->
cs35141-dsp1-spk-prot-10431483-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431663-10.bin ->
cs35141-dsp1-spk-cali-10431483-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431663-r0.bin ->
cs35141-dsp1-spk-prot-10431483-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431663-r0.bin ->
cs35141-dsp1-spk-cali-10431483-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spkid0-10.bin ->
cs35141-dsp1-spk-prot-10431c9f-spkid0-10.bin

Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spkid0-10.bin ->
cs35141-dsp1-spk-cali-10431c9f-spkid0-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spkid0-r0.bin ->
cs35141-dsp1-spk-prot-10431c9f-spkid0-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spkid0-r0.bin ->
cs35141-dsp1-spk-cali-10431c9f-spkid0-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spkid1-10.bin ->
cs35141-dsp1-spk-prot-10431c9f-spkid1-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spkid1-10.bin ->
cs35141-dsp1-spk-cali-10431c9f-spkid1-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314d3-spkid1-r0.bin ->
cs35141-dsp1-spk-prot-10431c9f-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314d3-spkid1-r0.bin ->
cs35141-dsp1-spk-cali-10431c9f-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spkid0-10.bin ->
cs35141-dsp1-spk-prot-10431ccf-spkid0-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spkid0-10.bin ->
cs35141-dsp1-spk-cali-10431ccf-spkid0-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spkid0-r0.bin ->
cs35141-dsp1-spk-prot-10431ccf-spkid0-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spkid0-r0.bin ->
cs35141-dsp1-spk-cali-10431ccf-spkid0-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spkid1-10.bin ->
cs35141-dsp1-spk-prot-10431ccf-spkid1-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spkid1-10.bin ->
cs35141-dsp1-spk-cali-10431ccf-spkid1-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431cdf-spkid1-r0.bin ->
cs35141-dsp1-spk-prot-10431ccf-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431cdf-spkid1-r0.bin ->
cs35141-dsp1-spk-cali-10431ccf-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spkid0-10.bin ->
cs35141-dsp1-spk-prot-10431503-spkid0-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spkid0-10.bin ->
cs35141-dsp1-spk-cali-10431503-spkid0-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spkid0-r0.bin ->
cs35141-dsp1-spk-prot-10431503-spkid0-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spkid0-r0.bin ->
cs35141-dsp1-spk-cali-10431503-spkid0-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spkid1-10.bin ->
cs35141-dsp1-spk-prot-10431503-spkid1-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spkid1-10.bin ->
cs35141-dsp1-spk-cali-10431503-spkid1-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-104314e3-spkid1-r0.bin ->
cs35141-dsp1-spk-prot-10431503-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-104314e3-spkid1-r0.bin ->
cs35141-dsp1-spk-cali-10431503-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10431d1f-spkid0-10.bin ->
cs35141-dsp1-spk-prot-10431503-spkid0-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-10431d1f-spkid0-10.bin ->
cs35141-dsp1-spk-cali-10431503-spkid0-10.bin

Link: cirrus/cs35141-dspl-spki-prot-10431d1f-spki0-r0.bin ->
cs35141-dspl-spki-prot-10431503-spki0-r0.bin
Link: cirrus/cs35141-dspl-spki-cali-10431d1f-spki0-r0.bin ->
cs35141-dspl-spki-cali-10431503-spki0-r0.bin
Link: cirrus/cs35141-dspl-spki-prot-10431d1f-spki1-10.bin ->
cs35141-dspl-spki-prot-10431503-spki1-10.bin
Link: cirrus/cs35141-dspl-spki-cali-10431d1f-spki1-10.bin ->
cs35141-dspl-spki-cali-10431503-spki1-10.bin
Link: cirrus/cs35141-dspl-spki-prot-10431d1f-spki1-r0.bin ->
cs35141-dspl-spki-prot-10431503-spki1-r0.bin
Link: cirrus/cs35141-dspl-spki-cali-10431d1f-spki1-r0.bin ->
cs35141-dspl-spki-cali-10431503-spki1-r0.bin
Link: cirrus/cs35141-dspl-spki-prot-10431b93.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-cali-10431b93.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-prot-10431a20.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-cali-10431a20.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-prot-10431a30.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-cali-10431a30.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-prot-10431a40.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-cali-10431a40.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-prot-10431a50.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-cali-10431a50.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-prot-10431a60.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spki-cali-10431a60.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
File: cirrus/cs35141-dspl-spki-prot-10431b93-spki0-10.bin
File: cirrus/cs35141-dspl-spki-prot-10431b93-spki0-r0.bin
File: cirrus/cs35141-dspl-spki-prot-10431b93-spki1-10.bin
File: cirrus/cs35141-dspl-spki-prot-10431b93-spki1-r0.bin
File: cirrus/cs35141-dspl-spki-cali-10431b93-spki0-10.bin
File: cirrus/cs35141-dspl-spki-cali-10431b93-spki0-r0.bin
File: cirrus/cs35141-dspl-spki-cali-10431b93-spki1-10.bin
File: cirrus/cs35141-dspl-spki-cali-10431b93-spki1-r0.bin
Link: cirrus/cs35141-dspl-spki-prot-10433a20-spki0-10.bin ->
cs35141-dspl-spki-prot-10431b93-spki0-10.bin
Link: cirrus/cs35141-dspl-spki-prot-10433a20-spki0-r0.bin ->
cs35141-dspl-spki-prot-10431b93-spki0-r0.bin
Link: cirrus/cs35141-dspl-spki-prot-10433a20-spki1-10.bin ->
cs35141-dspl-spki-prot-10431b93-spki1-10.bin

Link: cirrus/cs35141-dsp1-spki-prot-10433a20-spki-r0.bin ->
cs35141-dsp1-spki-prot-10431b93-spki-r0.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a20-spki0-10.bin ->
cs35141-dsp1-spki-cali-10431b93-spki0-10.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a20-spki0-r0.bin ->
cs35141-dsp1-spki-cali-10431b93-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a20-spki1-10.bin ->
cs35141-dsp1-spki-cali-10431b93-spki1-10.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a20-spki1-r0.bin ->
cs35141-dsp1-spki-cali-10431b93-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a30-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a30-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a30-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a30-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a30-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a30-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a30-spki0-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a30-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a40-spki0-10.bin ->
cs35141-dsp1-spki-prot-10433a30-spki0-10.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a40-spki0-r0.bin ->
cs35141-dsp1-spki-prot-10433a30-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a40-spki1-10.bin ->
cs35141-dsp1-spki-prot-10433a30-spki1-10.bin
Link: cirrus/cs35141-dsp1-spki-prot-10433a40-spki1-r0.bin ->
cs35141-dsp1-spki-prot-10433a30-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a40-spki0-10.bin ->
cs35141-dsp1-spki-cali-10433a30-spki0-10.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a40-spki0-r0.bin ->
cs35141-dsp1-spki-cali-10433a30-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a40-spki1-10.bin ->
cs35141-dsp1-spki-cali-10433a30-spki1-10.bin
Link: cirrus/cs35141-dsp1-spki-cali-10433a40-spki1-r0.bin ->
cs35141-dsp1-spki-cali-10433a30-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a50-spki0-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a50-spki0-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a60-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a60-spki1-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a60-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a60-spki1-r0.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a60-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a60-spki0-10.bin
File: cirrus/cs35141-dsp1-spki-prot-10433a60-spki0-r0.bin
File: cirrus/cs35141-dsp1-spki-cali-10433a60-spki0-r0.bin

Link: cirrus/cs35141-dsp1-spk-prot-10431c33.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431c33.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431c03.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431c03.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431a63.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431a63.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-10431c43.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-10431c43.wmfw ->
cs35141/v6.83.0/halo_cspl_RAM_revB2_29.85.0.wmfw
File: cirrus/cs35141-dsp1-spk-prot-10431c03-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c03-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c03-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c03-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c03-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c03-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c03-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c03-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a63-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a63-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a63-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a63-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a63-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a63-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431a63-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431a63-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c33-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c33-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c33-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c33-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c33-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c33-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c33-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c33-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c43-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c43-spkid0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c43-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c43-spkid0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c43-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c43-spkid1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-10431c43-spkid1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-10431c43-spkid1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2316.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw

Link: cirrus/cs35141-dsp1-spk-cali-17aa2316.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa2317.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa2317.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-17aa2316-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa2316-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa2316-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-prot-17aa2316-spki1-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa2316-spki0-10.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa2316-spki0-r0.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa2316-spki1-10.bin
File: cirrus/cs35141-dsp1-spk-cali-17aa2316-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2317-spki0-10.bin ->
cs35141-dsp1-spk-prot-17aa2316-spki0-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2317-spki0-r0.bin ->
cs35141-dsp1-spk-prot-17aa2316-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2317-spki1-10.bin ->
cs35141-dsp1-spk-prot-17aa2316-spki1-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2317-spki1-r0.bin ->
cs35141-dsp1-spk-prot-17aa2316-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa2317-spki0-10.bin ->
cs35141-dsp1-spk-cali-17aa2316-spki0-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa2317-spki0-r0.bin ->
cs35141-dsp1-spk-cali-17aa2316-spki0-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa2317-spki1-10.bin ->
cs35141-dsp1-spk-cali-17aa2316-spki1-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa2317-spki1-r0.bin ->
cs35141-dsp1-spk-cali-17aa2316-spki1-r0.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2318.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa2318.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa2319.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa2319.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa231a.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-cali-17aa231a.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dsp1-spk-prot-17aa2318-10.bin ->
cs35141-dsp1-spk-prot-17aa22f1-10.bin
Link: cirrus/cs35141-dsp1-spk-prot-17aa2318-r0.bin ->
cs35141-dsp1-spk-prot-17aa22f1-r0.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa2318-10.bin ->
cs35141-dsp1-spk-cali-17aa22f1-10.bin
Link: cirrus/cs35141-dsp1-spk-cali-17aa2318-r0.bin ->
cs35141-dsp1-spk-cali-17aa22f1-r0.bin

Link: cirrus/cs35141-dspl-spk-prot-17aa2319-10.bin ->
cs35141-dspl-spk-prot-17aa22f2-10.bin
Link: cirrus/cs35141-dspl-spk-prot-17aa2319-r0.bin ->
cs35141-dspl-spk-prot-17aa22f2-r0.bin
Link: cirrus/cs35141-dspl-spk-cali-17aa2319-10.bin ->
cs35141-dspl-spk-cali-17aa22f2-10.bin
Link: cirrus/cs35141-dspl-spk-cali-17aa2319-r0.bin ->
cs35141-dspl-spk-cali-17aa22f2-r0.bin
Link: cirrus/cs35141-dspl-spk-prot-17aa231a-10.bin ->
cs35141-dspl-spk-prot-17aa22f2-10.bin
Link: cirrus/cs35141-dspl-spk-prot-17aa231a-r0.bin ->
cs35141-dspl-spk-prot-17aa22f2-r0.bin
Link: cirrus/cs35141-dspl-spk-cali-17aa231a-10.bin ->
cs35141-dspl-spk-cali-17aa22f2-10.bin
Link: cirrus/cs35141-dspl-spk-cali-17aa231a-r0.bin ->
cs35141-dspl-spk-cali-17aa22f2-r0.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8c26.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8c26.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b42.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b42.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b43.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b43.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b44.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b44.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b45.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b45.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b46.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b46.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b47.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b47.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b63.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-103c8b63.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-103c8b70.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf

Link: cirrus/cs35141-dspl-spk-cali-103c8b70.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b72.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b72.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b74.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b74.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b77.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-cali-103c8b77.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b8f.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
Link: cirrus/cs35141-dspl-spk-prot-103c8b92.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dspl-spk-prot-103c8b42.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b42.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b43.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b43.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b44.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b44.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b45.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b46.bin ->
cs35141-dspl-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b46.bin ->
cs35141-dspl-spk-cali-103c8b45.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b47.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b47.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b63-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b63-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b63-r1.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b63-r1.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b63-l0.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b63-l0.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b63-l1.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b63-l1.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b70.bin ->
cs35141-dspl-spk-prot-103c8b42.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b70.bin ->
cs35141-dspl-spk-cali-103c8b42.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b72.bin ->
cs35141-dspl-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b72.bin ->
cs35141-dspl-spk-cali-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b74.bin ->
cs35141-dspl-spk-prot-103c8b47.bin

Link: cirrus/cs35141-dspl-spk-cali-103c8b74.bin ->
cs35141-dspl-spk-cali-103c8b47.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b77.bin ->
cs35141-dspl-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b77.bin ->
cs35141-dspl-spk-cali-103c8b45.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b8f-r0.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b8f-r1.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b8f-r0.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b8f-r1.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b8f-10.bin ->
cs35141-dspl-spk-prot-103c8b8f-r0.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8b8f-11.bin ->
cs35141-dspl-spk-prot-103c8b8f-r1.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b8f-10.bin ->
cs35141-dspl-spk-cali-103c8b8f-r0.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8b8f-11.bin ->
cs35141-dspl-spk-cali-103c8b8f-r1.bin
File: cirrus/cs35141-dspl-spk-prot-103c8b92.bin
File: cirrus/cs35141-dspl-spk-cali-103c8b92.bin
Link: cirrus/cs35141-dspl-spk-prot-103c8c26.bin ->
cs35141-dspl-spk-prot-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-cali-103c8c26.bin ->
cs35141-dspl-spk-cali-103c8b45.bin
Link: cirrus/cs35141-dspl-spk-prot-10280cbd.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cbd.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cbe.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cbe.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cbf.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cbf.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cc1.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cc1.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cc2.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cc2.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cc3.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-cali-10280cc3.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf
Link: cirrus/cs35141-dspl-spk-prot-10280cc4.wmf ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmf

Link: cirrus/cs35141-dsp1-spk-cali-10280cc4.wmfw ->
cs35141/v6.61.1/halo_cspl_RAM_revB2_29.63.1.wmfw
File: cirrus/cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
File: cirrus/cs35141-dsp1-spk-cali-10280cbd-spkid0.bin
File: cirrus/cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
File: cirrus/cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cbe-spkid0.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cbe-spkid0.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cbe-spkid1.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cbe-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cbf-spkid0.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cbf-spkid0.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cbf-spkid1.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cbf-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc1-spkid0.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc1-spkid0.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc1-spkid1.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc1-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc2-spkid0.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc2-spkid0.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc2-spkid1.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc2-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc3-spkid0.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc3-spkid0.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc3-spkid1.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc3-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-prot-10280cc4-spkid0.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid0.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc4-spkid0.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid0.bin

Link: cirrus/cs35141-dsp1-spk-prot-10280cc4-spkid1.bin ->
cs35141-dsp1-spk-prot-10280cbd-spkid1.bin
Link: cirrus/cs35141-dsp1-spk-cali-10280cc4-spkid1.bin ->
cs35141-dsp1-spk-cali-10280cbd-spkid1.bin

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Driver: mtk-sof - MediaTek Sound Open Firmware driver

File: mediatek/sof/sof-mt8186.ri
File: mediatek/sof/sof-mt8186.ldc
File: mediatek/sof-tplg/sof-mt8186.tplg
Version: v0.2.1

File: mediatek/sof/sof-mt8195.ri
File: mediatek/sof/sof-mt8195.ldc
File: mediatek/sof-tplg/sof-mt8195-mt6359-rt1019-rt5682.tplg
File: mediatek/sof-tplg/sof-mt8195-mt6359-rt1019-rt5682-dts.tplg
Version: v0.4.1

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Driver: nxp-srlxx - NXP Ultra Wide Band driver
File: nxp/srl150_fw.bin
Version: 44.00.02

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Originates from <https://github.com/NXP/uwb-NXPUWB-FW.git>

Driver: btnxpuart - NXP BT UART driver

File: nxp/uartuart8997_bt_v4.bin
File: nxp/uartiw416_bt_v0.bin
File: nxp/helper_uart_3000000.bin
Version: 16.92.21.p81

File: nxp/uartuart8987_bt.bin
Version: 16.92.21.p76.5

File: nxp/uartuart9098_bt_v1.bin
Version: 17.92.1.p136.24

File: nxp/uartspi_n61x_v1.bin.se
Version: 18.99.1.p154.40

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Originates from https://github.com/nxp-imx/imx-firmware/tree/lf-6.1.22_2.0.0/nxp

Driver: qcom-sc8280xp - Qualcomm ASoC tplg Firmware
File: qcom/sc8280xp/LENOVO/21BX/audioreach-tplg.bin
Link: qcom/sc8280xp/SC8280XP-LENOVO-X13S-tplg.bin -> LENOVO/21BX/audioreach-tplg.bin
Version: v0.1.0

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Originates from
<https://git.linaro.org/people/srinivas.kandagatla/audioreach-topology.git>

Driver: amlogic - Amlogic SoC Firmware
File: amlogic/bluetooth/w2_bt_fw_uart.bin
Version: date = 38.01, number = 0xa914

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Driver: powervr - Imagination Technologies PowerVR graphics driver

File: powervr/rogue_33.15.11.3_v1.fw
Version: 1.0.OS@6503725

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```
=====
lvm2-2.03.11: COPYING
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```

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=====
lzo-2.10: src/lzo_init.c, 5-25
=====
```

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mesa-22.0.3: docs/license.rst
=====
```

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```

```
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GLX client code	src/ glx/	SGI Free Software License B
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```
=====
mmc-utils-0.1+git: mmc.c, 1-20
=====
```

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 *
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 *
 * (This code is based on btrfs-progs/btrfs.c.)
 */
```

```
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```

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```
=====
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=====
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```
=====
nettle-3.7.3: serpent-decrypt.c, 14-36
nettle-3.7.3: serpent-set-key.c, 14-36
=====
```

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nginx-1.24.0: LICENSE
=====
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```
=====
nspr-4.29: configure.in, 3-6
=====
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=====
nspr-4.29: Makefile.in, 4-38
=====
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```

```
MOD_DEPTH    = .
topsrcdir    = @top_srcdir@
srcdir       = @srcdir@
VPATH        = @srcdir@
```

```

include $(MOD_DEPTH)/config/autoconf.mk

DIRS = config pr lib

ifdef MOZILLA_CLIENT
# Make nsinstall use absolute symlinks by default for Mozilla OSX builds
# http://bugzilla.mozilla.org/show_bug.cgi?id=193164
ifeq ($(OS_ARCH), Darwin)
ifndef NSDISTMODE
NSDISTMODE=absolute_symlink
export NSDISTMODE
endif
endif
endif

DIST_GARBAGE = config.cache config.log config.status

all:: config.status export

include $(topsrcdir)/config/rules.mk

config.status:: configure
ifeq ($(OS_ARCH), WINNT)
    sh $(srcdir)/configure --no-create --no-recursion
else
=====
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[Tatu continues]

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```
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- DES is now external, in the OpenSSL library
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```

[The licence continues]

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```
* @version 3.0 (December 2000)
*
```

```

* Optimised ANSI C code for the Rijndael cipher (now AES)
*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $

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openssl-3.0.13: LICENSE.txt
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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
perl-5.34.3: Artistic
=====
```

The "Artistic License"

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The End

```
=====  
pixman-0.40.0: COPYING  
=====
```

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*/

```
=====
pixman-0.40.0: pixman/pixman-matrix.c, 1-21
=====
```

/*

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*/

pixman-0.40.0: pixman/pixman-arm-neon-asm.h, 1-24

```

=====

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 *
 * Author: Siarhei Siamashka (siarhei.siamashka@nokia.com)
 */

```

polkit-0.119: COPYING

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```

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That's all there is to it!

```
=====
polkit-0.119: src/polkit/polkit.h, 1-20
=====
```

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 * Author: David Zeuthen <davidz@redhat.com>
 */
```

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popt-1.18: COPYING
=====
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=====
 pugixml-1.12: readme.txt, 29-52
 =====

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=====
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=====
```

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 */
```

```
=====
pulseaudio-15.0: src/pulsecore/resampler.h, 4-21
=====
```

```
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```

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***/
 =====

pulseaudio-15.0: src/modules/reserve.h, 6-28
 =====

/***

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***/
 =====

pulseaudio-15.0: src/pulsecore/rtkit.h, 6-29
 =====

/***

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***/
 =====

pulseaudio-15.0: src/modules/echo-cancel/adrian-aec.h, 3-12
 =====

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 * Author: Andre Adrian
 *
 * Acoustic Echo Cancellation Leaky NLMS-pw algorithm
 *
 * Version 0.3 filter created with www.dsptutor.freeuk.com
 * Version 0.3.1 Allow change of stability parameter delta
 * Version 0.4 Leaky Normalized LMS - pre whitening algorithm
 */

=====

pulseaudio-15.0: src/pulsecore/filter/biquad.h, 1-4
 =====

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 */

=====

python3-3.10.13: LICENSE
 =====

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=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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```
=====
qtbase-5.15.13+git: LICENSE.QT-LICENSE-AGREEMENT
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```

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Agreement version 4.4.1

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A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due and which have not been disputed by the Licensee in good faith.

10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping

Licensee shall at all times during the Agreement Term and for a period of two (2) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, , and (iii) any other information pertaining to Licensee's compliance with the terms of this Agreement (like e.g. information on products and/or projects relating to use of Distribution Licenses), as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least thirty (30) days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any possible in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities and shall be limited in scope to verify Licensee's compliance with the terms of this Agreement. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee shall pay to The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force until terminated pursuant to the terms of this Section 12 ("Agreement Term").

12.2. Termination for breach and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within ten (10) business days following The Qt Company's written notice thereof.

12.3. Termination for insolvency

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software under this Agreement. For clarity, a Development License of a Designated User or a QA Tools License, and all rights relating thereto, shall always terminate at the expiry of the respective Development License Term, even if the Agreement continues to remain in force.

Upon such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same by Licensee's duly authorized officer to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Except when this Agreement is terminated by The Qt Company due to Licensee's

material breach as set forth in Section 12.2, the Licensee may continue distribution of Applications and Devices under the terms of this Agreement despite the termination of this Agreement. In such event the terms hereof will continue to be applicable and govern any such distribution of Applications and Devices beyond the expiry or termination of this Agreement. In case of termination by The Qt Company due to Licensee's material breach, Licensee must cease any distribution of Applications and Devices at the date of termination of this Agreement.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee pay to The Qt Company all such fees within 30 days from the effective date of termination of this Agreement.

Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension of Rights under Special Circumstances

In the event of The Qt Company choosing not to renew the Development License(s) or QA Tools Licenses, as set forth in Section 3.1 and 3.5 respectively, and where such decision of non-renewal is not due to any ongoing breach or alleged breach (as reasonably determined by The Qt Company) by Licensee of the terms of this Agreement or any applicable license terms of Open Source Qt, then all valid and affected Development Licenses and QA Tools licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2.

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) or QA Tools Licenses, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid Development Licenses and QA Tools Licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

For clarity, in case of an extension under this Section 12.5, any such extension shall not apply to The Qt Company's Support obligations, but Support shall be provided only up until the end of the respective fixed Development License Term regardless of the extension of relevant Development License or QA Tools License, unless otherwise agreed between the Parties.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of International Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to

The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement

This Agreement, the Appendices hereto, the License Certificate and any applicable quote and Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.

14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action, as to be ordered by the relevant dispute resolution body.

14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data will be primarily collected from the relevant individuals but may be collected also from Licensee (e.g. in the course of Licensee's reporting obligations). The Parties acknowledge that as The Qt Company determines the purpose and means for such collection and processing of the applicable personal data, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation.

The Qt Company shall process any such personal data in accordance with its privacy and security policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

14.13. Marketing Rights

Parties have agreed upon Marketing Rights pursuant to Appendix 7, if any.

APPENDICES

The Agreement includes following Appendices 1-10, as applicable.

- Appendix 1: Licensed Software details
- Appendix 2: Pricing
- Appendix 3: Add-on Software details (optional)
- Appendix 4: Small business and startup Licenses (optional)
- Appendix 5: Non-commercial and educational Licenses (optional)
- Appendix 6: License Reporting (optional)
- Appendix 7: Marketing Rights (optional)
- Appendix 8: Intentionally left blank (optional)
- Appendix 9: Support Terms
- Appendix 10: Conversion from legacy Licenses to Subscription (optional)

APPENDIX 1: LICENSED SOFTWARE

The modules and/or tools that are included in the latest publicly available version of the respective product at the effective date of this Agreement- Qt for Application Development Professional (ADP), Qt for Application Development Enterprise (ADE), Qt for Device Creation Professional (DCP), Qt for Device Creation Enterprise (DCE), - are marked with "X" in the below table. The modules and tools are specific to each product version respectively and may vary from version to version. Modules and tools included in the latest publicly available version of the respective product at any given time are listed in Appendix 1 of the latest version of this Agreement available at www.qt.io/terms-conditions/. If a new version of Licensed Software does not include a module or tool present in an older version which Licensee is entitled to use under a valid license from The Qt Company, then Licensee will continue to have such right during the Term of this Agreement. In the event a new version of the Licensed Software adds modules or tools to any previous version(s), Licensee's rights will extend to cover also such additional modules and tools.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with "R" in the below table.

Modules / Tools		ADP	ADE	DCP	DCE
Active Qt	X,R	X,R	X,R	X,R	X,R
Qt 3D	X,R	X,R	X,R	X,R	X,R
Qt 5 Core Compatibility APIs	X,R	X,R	X,R	X,R	X,R
Qt Android Extras	X,R	X,R	X,R	X,R	X,R
Qt Bluetooth	X,R	X,R	X,R	X,R	X,R
Qt Canvas 3D	X,R	X,R	X,R	X,R	X,R
Qt Charts	X,R	X,R	X,R	X,R	X,R
Qt Concurrent	X,R	X,R	X,R	X,R	X,R
Qt Core	X,R	X,R	X,R	X,R	X,R
Qt Data Visualization	X,R	X,R	X,R	X,R	X,R
Qt D-Bus	X,R	X,R	X,R	X,R	X,R
Qt for Python	X,R	X,R	X,R	X,R	X,R
Qt for WebAssembly	X,R	X,R	X,R	X,R	X,R
Qt Gamepad	X,R	X,R	X,R	X,R	X,R
Qt Graphical Effects	X,R	X,R	X,R	X,R	X,R
Qt GUI	X,R	X,R	X,R	X,R	X,R
Qt Help	X,R	X,R	X,R	X,R	X,R
Qt Image Formats	X,R	X,R	X,R	X,R	X,R
Qt Location	X,R	X,R	X,R	X,R	X,R
Qt Lottie Animation	X,R	X,R	X,R	X,R	X,R
Qt Mac Extras	X,R	X,R	X,R	X,R	X,R
Qt Multimedia	X,R	X,R	X,R	X,R	X,R

Qt Multimedia Widgets	X,R	X,R	X,R	X,R
Qt Network	X,R	X,R	X,R	X,R
Qt Network Authorization	X,R	X,R	X,R	X,R
Qt NFC	X,R	X,R	X,R	X,R
Qt OpenGL	X,R	X,R	X,R	X,R
Qt PDF	X,R	X,R	X,R	X,R
Qt Platform Headers	X,R	X,R	X,R	X,R
Qt Positioning	X,R	X,R	X,R	X,R
Qt Print Support	X,R	X,R	X,R	X,R
Qt Purchasing	X,R	X,R	X,R	X,R
Qt QML	X,R	X,R	X,R	X,R
Qt Quick	X,R	X,R	X,R	X,R
Qt Quick 3D	X,R	X,R	X,R	X,R
Qt Quick Controls 1	X,R	X,R	X,R	X,R
Qt Quick Controls	X,R	X,R	X,R	X,R
Qt Quick Dialogs	X,R	X,R	X,R	X,R
Qt Quick Extras	X,R	X,R	X,R	X,R
Qt Quick Layouts	X,R	X,R	X,R	X,R
Qt Quick Test	X,R	X,R	X,R	X,R
Qt Quick Timeline	X,R	X,R	X,R	X,R
Qt Quick WebGL	X,R	X,R	X,R	X,R
Qt Quick Widgets	X,R	X,R	X,R	X,R
Qt Remote Objects	X,R	X,R	X,R	X,R
Qt Script	X,R	X,R	X,R	X,R
Qt Script Tools	X,R	X,R	X,R	X,R

Qt SCXML	X,R	X,R	X,R	X,R
Qt Sensors	X,R	X,R	X,R	X,R
Qt Serial Bus	X,R	X,R	X,R	X,R
Qt Serial Port	X,R	X,R	X,R	X,R
Qt Shader Tools	X,R	X,R	X,R	X,R
Qt Speech	X,R	X,R	X,R	X,R
Qt State Machine	X,R	X,R	X,R	X,R
Qt SQL	X,R	X,R	X,R	X,R
Qt SVG	X,R	X,R	X,R	X,R
Qt Test	X,R	X,R	X,R	X,R
Qt UI Tools	X,R	X,R	X,R	X,R
Qt Virtual Keyboard	X,R	X,R	X,R	X,R
Qt Wayland Compositor	X,R	X,R	X,R	X,R
Qt WebChannel	X,R	X,R	X,R	X,R
Qt WebEngine	X,R	X,R	X,R	X,R
Qt WebSockets	X,R	X,R	X,R	X,R
Qt WebView	X,R	X,R	X,R	X,R
Qt Widgets	X,R	X,R	X,R	X,R
Qt Windows Extras	X,R	X,R	X,R	X,R
Qt X11 Extras	X,R	X,R	X,R	X,R
Qt XML	X,R	X,R	X,R	X,R
Qt XML Patterns	X,R	X,R	X,R	X,R
Qt Designer (Qt Widget Designer)	X,R	X,R	X,R	X,R
Qt Linguist	X,R	X,R	X,R	X,R
Qt Assistant	X,R	X,R	X,R	X,R

lupdate	X,R	X,R	X,R	X,R	
lrelease	X,R	X,R	X,R	X,R	
lconvert	X,R	X,R	X,R	X,R	
Qt MQTT		X,R	X,R	X,R	
Qt KNX		X,R	X,R	X,R	
Qt OPC UA		X,R	X,R	X,R	
Qt CoAP		X,R	X,R	X,R	
Boot 2 Qt stacks			X,R	X,R	
Qt OTA			X,R	X,R	
Device Utilities			X,R	X,R	
Qt Debugging Bridge (QBD) Daemon			X,R	X,R	
Qt Quick Ultralite Controls			X,R	X,R	
Qt Quick Ultralite			X,R	X,R	
Qt Safe Renderer (QSR)				X,R	
Qt Application Manager				X,R	
Qt Interface Framework				X,R	
Neptune Reference UI				X,R	
Qt for Android Automotive (QAA)				X,R	
Qt Creator	X	X	X	X	
Qt Design Studio Professional	X	X	X	X	
androiddeployqt	X	X	X	X	
androidtestrunner	X	X	X	X	
canbusutil	X	X	X	X	
dumpcpp	X	X	X	X	
dumpdoc	X	X	X	X	

fixqt4headers.pl	X	X	X	X
idc	X	X	X	X
moc	X	X	X	X
pixeltool	X	X	X	X
qdbus	X	X	X	X
qdbuscpp2xml	X	X	X	X
qdbusviwer	X	X	X	X
qdbusxml2cpp	X	X	X	X
qdistancefieldgenerator	X	X	X	X
qdoc	X	X	X	X
qhelpgenerator	X	X	X	X
qlalr	X	X	X	X
qmake	X	X	X	X
qml	X	X	X	X
qmlcachegen	X	X	X	X
qmldom	X	X	X	X
qmlleasing	X	X	X	X
qmlformat	X	X	X	X
qmllint	X	X	X	X
qmlpreview	X	X	X	X
qmlprofiler	X	X	X	X
qmlscene	X	X	X	X
qmltestrunner	X	X	X	X
qmltime	X	X	X	X
qmlviewer	X	X	X	X

qtdiag	X	X	X	X
qtpaths	X	X	X	X
qtplugininfo	X	X	X	X
qvkgen	X	X	X	X
rcc	X	X	X	X
tracegen	X	X	X	X
uic	X	X	X	X
windeployqt	X	X	X	X
Target toolchains			X	X
Qt Debugging Bridge Host Tools			X	X
qtconfig-gui			X	X
Qt Emulator			X	X
Qt Creator VxWorks plugin			X	X
Qt Creator plugin for Qt Application Manager				X
qmlinterfacegenerator				X
qmltoccpp				X
qulfontcompiler				X
Qt Deployment Server				X

Rights for Application and Device use cases

Following table summarizes the rights afforded by different products of the Licensed Software to create and distribute Applications and Devices as defined in this Agreement (X marks for rights):

	Applications	Devices
ADP	X	

ADE	X		
DCP	X	X	
DCE	X	X	

Licensed Software: Designer tools and modules

The modules and/or tools that are included in the respective product - Qt for Design Studio Professional (DSP), Qt for Design Studio Enterprise (DSE) - are marked with "X" in the below table.

Designer tools provides no Redistributables.

	DSP	DSE
Qt Design Studio	X	X
Qt Design Bridges		X
QML Live on host	X	X
QML Live on target		X
Variant Management		X
Shader creation tools		X
Profiling tools		X
Simulink support		X

Both DSP and DSE can be used to create an user interface for use cases covered by ADP, ADE, DCP and DCE.

Licensed Software: QA Tools

The modules and/or tools that are included in the respective QA Tools product - Squish (both Tester and execution Licenses), Coco or Test Center - are marked with "X" in the below table. Optional features that will need additional licenses are marked with "O". QA Tools include no Redistributables.

	Squish	Coco	Test Center

Squish IDE	X			
+-----+				
QA Tool-specific command line tools	X	X	X	
+-----+				
Coverage Browser		X		
+-----+				
HTML interface			X	
+-----+				
Qt Support Module	X			
+-----+				
Java support module	X			
+-----+				
Windows support module	X			
+-----+				
iOS support module	X			
+-----+				
Android support module	X			
+-----+				
Web support module	X			
+-----+				
macOS support module	X			
+-----+				
VNC support module	X			
+-----+				
MCU support module	X			
+-----+				
C and C++ language module		X		
+-----+				
C# language module		X		
+-----+				
QML language module		X		
+-----+				
Tester Cross-Compilation Add-On	O	O		
+-----+				

License capabilities for Squish

License capabilities that are included in the Squish Tester and Execution Licenses are marked with "X" in the below table.

	Squish Tester License	Squish Execution License
Ability to create, edit, and debug test cases	X	
Ability to execute test cases	X	X

Install and use capabilities for QA Tools

Install and use capabilities that are included in the respective QA Tools products are defined in the below table.

	Squish	Squish	Coco	Test
	Tester	Execution	License	Center
	License	License		License
Number of installation instances per license	Unlimited	Unlimited	Unlimited	One(1)
Number of concurrent users	Limited by number of Squish Tester Licenses	Limited by number of Squish Execution Licenses	Limited by number of Coco Tester Licenses	Limited by number of Test Center Licenses

APPENDIX 2: PRICING

Separate template

APPENDIX 3: ADD-ON PRODUCTS TO LICENSED SOFTWARE

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APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

Start-up Companies are qualified for a discounted License Fee for maximum of four (4) Development Licenses ("Start-up Development License") unless otherwise agreed between the parties.

Start-up Development License entitles the respective Designated User for Support only for Install Support as defined in Appendix 9, Support Terms.

Upon expiry of the respective Development License Term, the Start-up Development Licenses shall be automatically extended, pursuant to Section 3.1 of the Agreement, for a Renewal Term either as new Start-up Development Licenses (if the Licensee still qualifies as a Start-up Company), or as normal then standard list price Development Licenses (if the Licensee no longer qualifies as a Start-up Company).

APPENDIX 5: NON-COMMERCIAL AND EDUCATIONAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Agreement Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Agreement Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose. Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software. Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

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III. Sections 3.2, 3.3, 3.5, 3.6, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

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V. Section 12 shall be replaced in its entirety to read as follows:

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Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

APPENDIX 6: LICENSE REPORTING

Separate template

APPENDIX 7: MARKETING RIGHTS

This Appendix 7 has the purpose to grant visibility through The Qt Company marketing channels of the usage of Qt and related product and service in Licensee product. Following related marketing right are agreed between the Qt Company and the Licensee.

1. LICENSEE NAME AND LICENSEE LOGO

The Qt Company has the right to use Licensee name and Licensee logo in public channel, in respect of the value proposition that the Qt company provided to the Licensee.

2. MARKETING CONTENT COOPERATION

2.1. LICENSEE CASES

The Licensee is open to collaborate on content creation for marketing and communication purpose. The Licensee will nominate one responsible that will be

in charge to support The Qt company with this content creation, according to content format paragraph, answering technical questions or sharing professional picture or video of required content. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

2.2. FINAL PRODUCT REFERRAL

Licensee agree that The Qt Company could connect their software product and services with the Licensee device or application, that the Licensee has created using The Qt Company technology and competence. Licensee will provide high quality picture, and video of the created final product where the Qt technology is running into. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

3. CONTENT FORMAT

- Video
- Written Licensee case
- Press release
- Social media posts
- Emails
- Event booth Graphics
- Printed material

4. CHANNELS

- Social media
- The Qt Company resource center and website
- Email to the Qt company contact database
- Events
- Online webinars
- Public speech
- Public presentations

APPENDIX 8: INTENTIONALLY LEFT BLANK

APPENDIX 9: SUPPORT TERMS

These Qt support terms and conditions ("Support Terms") set forth the legal framework, where under The Qt Company ("The Qt Company") provides support services (as herein defined) to the Licensee.

1 DEFINITIONS

"Application Code" shall mean a computer software program written strictly using the Qt programming language, by or for the Licensee, with a user interface, enabling the Licensee or their users to accomplish a specific task and display any results of the task on the display monitor or screen.

"Dedicated Contact" shall mean the employee of The Qt Company who will be the

first point of contact for all Designated Users' requests for Support.

"Errors" shall mean an error, flaw, mistake, failure, or fault in Licensed Software that prevents it from behaving as described in the relevant documentation or as agreed between the Parties.

"Extended Support" shall mean a continuation to the normal Support period, which allows Designated Users to receive selected Support (Standard Support or Premium Support) for a version of Licensed Software that is no longer generally supported by The Qt Company.

"Install Support" shall mean Support that is limited to installation related Error(s) on Development Platforms specified as supported host platforms for each Qt release under doc.qt.io.

"Maintenance Release" shall mean a release or version of Licensed Software containing bug fixes, error corrections and other changes targeted to maintaining and improving product stability and quality. Maintenance Releases are generally depicted as a change to the third digit of Licensed Software version number.

"Platforms" shall mean both Development Platforms and Deployment Platforms. Supported host and target Platforms may vary from for each Qt release as defined under doc.qt.io.

"Premium Support" shall mean an upgraded level of Support that The Qt Company provides pursuant to these Support Terms to Licensee if Licensee has purchased Premium Support instead of Standard Support. Premium Support shall always be purchased for all Designated User(s) in the respective development team of the Licensee.

"Response Time" shall mean the period of time from when Licensee notifies TheQt Company about an Error or requests Support until The Qt Company provides Licensee with a response that addresses (but not necessarily resolves) the reported Error or provides the requested Support.

"Standard Support" shall mean standard level of Support that The Qt Company provides pursuant to these Support Terms to Licensee.

"Support" shall mean developer assistance that is provided by The Qt Company to assist eligible Designated Users in Licensed Software installation, usage and functionality problem resolution for Error(s) and Error workarounds pursuant to the terms of these Support Terms. Support for different products is available as specified in the below table ("X" marking the Support that is included in the license price, optional Add-on Support services are marked as "O"):

```
+-----+
|                                     |ADP|ADE|DCP|DCE|DSP|DSE|Squish|Coco|Test Center|
+-----+
```

Install Support	X X X X X X X X X X
+-----+	
Standard Support	X X X X X X X X X
+-----+	
Premium Support	O O O O O O O O O
+-----+	
Extended Support	O O O O O
+-----+	
Tool Qualification Kit	O O
+-----+	

"Support Validity Term" shall mean the Development License Term or any other fixed time period agreed between the Parties during which time the Customer is eligible to receive Support from The Qt Company.

"Tool Qualification Kit" shall mean a customized set of documents and validation test cases.

2 SUPPORT SERVICES

2.1 Support Services Provided by The Qt Company

Subject to these Support Terms and during the Support Validity Term, The Qt Company will via its web-based support user-interface, provide Designated User(s) with Support for the Platforms which Customer has licensed under the Agreement.

The Qt Company will make commercially reasonable efforts to solve any Errors reported by Designated User(s). Resolution of an Error may be provided through Designated User(s) themselves downloading of a later released version of the applicable Licensed Software product(s) or providing the Designated User with a temporary workaround addressing such Error.

2.2 Licensee's Obligations

To report an Error, the Designated User shall register the Error on The Qt Company's web-based support user interface located at:
<https://account.qt.io/login> or at another location designated by The Qt Company.

The Designated User must provide adequate information and documentation to The Qt Company to enable it to recreate the Error or problem for which the Designated User has sought assistance.

To ensure efficient handling of Errors, the Designated User must provide the following information, where relevant:

- A clear, detailed description of the problem, question or suggestion;
- Identification of which Licensed Software product and version is affected;
- Identification of the operating environment (e.g. operating system, hardware Platform, build tools, etc.) on which the problem exists;
- On Standard Support: A complete and compilable test case of not more than 500 lines of code that demonstrates the problem;
- On Premium Support: A complete and compilable test case that demonstrates the

problem or access to Application Code source codes.

Additional relevant content, such as screenshots, etc.
Additional content should be included as attachments. The preferred image formats are JPEG and PNG. Compressed content should be included in zip or tar.gz archives. Executable content and documents in platform specific formats such as Microsoft Office' are not accepted.

In order for The Qt Company to provide prompt handling of Errors, the Designated User shall promptly respond to any requests from The Qt Company for additional information.

2.3 Support Limitations

General limitations:

Each version or release of the Licensed Software will be Supported under Standard Support or Premium Support only for limited time period as set forth in doc.qt.io. For example, regular releases of Qt Software are supported for one (1) year from the release date of the version x.y.0 and Long Term Support (LTS) Releases are supported for a period of three (3) years from the release date of the LTS version x.y.0.

The Qt Company shall only provide Support for Designated User(s).

Support is made available for the entire development teams only: It is not allowed to purchase Support only for some members of the development team, and all Designated Users of the respective development team must be eligible for the same level of Support.

Support is not provided for snapshots, preview releases, beta releases or release candidates.

The Qt Company shall have no obligation to provide Support for hardware or operating system specific problems or problems arising from improper use, accident, neglect or modification of Qt.

Limitations with Install Support:

Support limited to Error(s) regarding installation and setting up of the Qt development environment on host Platforms.

Limitations with Standard Support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software even if such third-party software is distributed together with Licensed Software product(s).

The Qt Company shall only provide Support for Error(s) that are reported on and can be reproduced on Platforms that are officially supported for the release of

the Licensed Software.

Limitations with Premium support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software. However, if such third-party software is distributed together with Licensed Software, The Qt Company will make commercially reasonable efforts to solve such problems.

The Qt Company shall only provide Support for Error(s) that can be reproduced on Platforms that are officially supported for the release of the Licensed Software. If the Error is on a Platform that is not supported, The Qt Company will make commercially reasonable efforts to provide a solution on closest corresponding supported Platform.

Premium Support is optional and purchased for an agreed bucket of hours ("Bucket"). Hours can be used by any Designated User in the respective development team. To encourage continuous usage of the Support, ten percent (10%) of the purchased Bucket shall automatically expire (regardless of whether such support hours are actually used or not by the Licensee) each month after three (3) months from the purchase of the Premium Support.

2.4 Extended Support

Extended Support extends the Support Validity Term for a release of Licensed Software that is no longer generally supported.

Extended Support includes and is by default provided with Standard Support rules and limitations, unless Extended Support is purchased with Premium Support in which case Premium Support rules and limitations will apply.

Extended Support is optional and purchased with annual fee and separately per each Licensee product. Extended Support will need definition of (i) Licensee product, (ii) used Platform(s) and (iii) Licensed Software version(s).

2.5 Tool Qualification Kit

The Qt Company shall provide set of customized documents and validation tests that enable Licensee to qualify QA testing tool for the purpose of ISO 26262, EN 50128, DO-330, IEC 61508, IEC 62304 or IEC 13485 certification Licensee end to end solution.

3 RESPONSE TIME

In performing Support, The Qt Company shall commit to following, non-binding, Response Times:

Standard Support: Errors and Support requests will have a Response Time not to exceed two (2) business days.

Premium Support: Errors and Support requests will have a Response Time not to exceed one (1) business day.

For complex issues, The Qt Company may provide an initial response to the Designated User and then follow up, without undue delay, with additional communication before an Error is properly addressed or Support provided.

4 ADDITIONAL SERVICES IN PREMIUM SUPPORT

The Designated User(s) will be assigned a Dedicated Contact to handle requests for Support. Dedicated Contact is subject to change in cases such as sick leave, vacation and other similar reasons.

The Designated User(s) can on request ask The Qt Company to access their computer remotely in order to resolve problems directly.

The Designated User(s) can request a session via Instant Messaging or phone call in the support request to The Qt Company.

Premium Support can assist Licensee in implementing new features, bug fixes and accessing patches in Licensed Software or Application Code.

All Support requests will be handled with high priority.

5 MAINTENANCE RELEASES, UPDATES AND UPGRADES

Under the Support the Customer is eligible for Maintenance Releases and Updates that The Qt Company generally makes available to customers who has purchased Support. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be provided under the Support.

The primary focus of Maintenance Releases is product quality. Therefore, each Maintenance Release typically includes the following types of changes to the previous version of Licensed Software:

- Bug fixes caused by changes to previously working code;
- Fixes related to build issues on supported Platforms;
- Error corrections specific to a single Platform that are not present on other Platforms;
- Critical Error corrections such as crashes, data corruption, loss of data, race conditions; and
- Updates to documentation and license information when deemed necessary by The Qt Company.

The primary focus of Updates is introducing new features to Licensed Software and covering new platforms. Therefore, each Updates typically includes the following types of changes to the previous version of Licensed Software:

- New platform support;
- New toolchain support;
- New features and Qt modules;

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APPENDIX 10: CONVERSION TO SUBSCRIPTION

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```
+-----+
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| signing parties, version | <Licensee> <Version of the Agreement, e.g. 2,0, |
| and date of signatures | 3.2 or 4.1> <Date of the agreement signatures> |
| thereof                | | |
+-----+
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```
=====
qtlocation-5.15.13+git: src/3rdparty/mapbox-gl-native/LICENSE.md
=====
```

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Mapbox GL uses portions of Android Gesture Detectors Framework.

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http://www.boost.org/LICENSE_1_0.txt

=====

Mapbox GL uses portions of Clipper.

Author : Angus Johnson
Version : 6.1.3a
Date : 22 January 2014
Website : <http://www.angusj.com>
Copyright : Angus Johnson 2010-2014

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Attributions:

The code in this library is an extension of Bala Vatti's clipping algorithm:
"A generic solution to polygon clipping"
Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.
<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston

Springer; 1 edition (January 4, 2005)
<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"
 Paper no. DETC2005-85513 pp. 565-575
 ASME 2005 International Design Engineering Technical Conferences
 and Computers and Information in Engineering Conference (IDETC/CIE2005)
 September 24-28, 2005 , Long Beach, California, USA
<http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf>

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 Mapbox GL uses portions of BugshotKit.

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 Mapbox GL uses portions of CSS Color Parser.

(c) Dean McNamee <dean@gmail.com>, 2012.
 C++ port by Konstantin Käfer <mail@kkaefer.com>, 2014.

<https://github.com/deanm/css-color-parser-js>
<https://github.com/kkaefer/css-color-parser-cpp>

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Mapbox GL uses portions of GLFW.

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Copyright (c) 2006-2010 Camilla Berglund <elmindreda@elmindreda.org>

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

<http://llvm.org>

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TurboJPEG/LJT: this implements the TurboJPEG API using libjpeg or libjpeg-turbo

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```
=====
qtsvg-5.15.13+git: LICENSE.LGPLv21
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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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.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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Ty Coon, President of Vice
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Version 3, 29 June 2007

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```
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=====
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```

```

=====
shadow-4.11.1: src/passwd.c, 2-30
=====

```

```

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```

```

#include <config.h>

```

```

#ident "$Id$"

```

```

#include <errno.h>

```

```

#include <fcntl.h>

```

```

#include <getopt.h>

```

```

#include <pwd.h>

```

```

#include <signal.h>

```

```

#include <stdio.h>

```

```
#include <sys/types.h>
#include <time.h>
#include "defines.h"
#include "getdef.h"
#include "nscd.h"
#include "sssd.h"
#include "prototypes.h"
#include "pwauth.h"
#include "pwio.h"
#include "shadowio.h"
#include "shadowlog.h"
```

```
=====  
slang-2.3.2: COPYING  
=====
```

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sqlite3-3.38.5: sqlite3.h, 1-11
=====
```

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=====
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vulkan-headers-1.3.204.1: LICENSE.txt
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wayland-1.20.0: src/wayland-server.c, 1-24
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```

=====
xcb-proto-1.14.1: src/dri2.xml, 2-28
=====

```

```

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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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```

=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
=====

```

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```

=====
xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====

```

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```
=====
xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30
=====
```

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*/
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```
=====  
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24  
=====
```

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*/
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```
=====  
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20  
=====
```

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```
=====
xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24
=====
```

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```
=====
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27
=====
```

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```
=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
=====
```

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```
=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====
```

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```
=====
xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
=====
```

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```

=====
xz-5.2.6: lib/getopt.c, 1-23
=====

/* Getopt for GNU.
   NOTE: getopt is now part of the C library, so if you don't know what
   "Keep this file name-space clean" means, talk to drepper@gnu.org
   before changing it!
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   Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.  */

#ifndef _LIBC
=====
zlib-1.2.11: zlib.h, 6-23
=====

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Jean-loup Gailly          Mark Adler

```

jloup@gzip.org madler@alumni.caltech.edu

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```

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-----
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```
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```

```
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```

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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

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```
=====
attr-2.5.1: tools/attr.c, 1-17
=====
```

```
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 *
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 */
```

```
=====
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=====
```

```
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```

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*/
```

```
=====
avahi-0.8: LICENSE
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libassuan-2.5.6: COPYING.LIB
libatasmart-0.19: LGPL
libdaemon-0.14: LICENSE
libgcc-11.4.0: COPYING.LIB
libgpg-error-1.44: COPYING.LIB
libnss-mdns-0.15.1: LICENSE
=====
```

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```

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```
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Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
avahi-0.8: avahi-common/address.h, 1-25
=====
```

```
#ifndef foaddressshfoo
#define foaddressshfoo
```

```
/**
```

```
This file is part of avahi.
```

```
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***/

/** \file address.h Definitions and functions to manipulate IP addresses. */

#include <inttypes.h>

=====
 avahi-0.8: avahi-core/dns.h, 1-23
 =====

#ifndef foodnshfoo
 #define foodnshfoo

/**

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***/

#include "rr.h"

=====
 avahi-0.8: avahi-daemon/main.c, 1-21
 =====

/**

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```

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USA.

```

```

***/

```

```

#ifdef HAVE_CONFIG_H
#include <config.h>

```

```

=====
avahi-0.8: avahi-client/client.h, 1-23
=====

```

```

#ifndef fooclienthfoo
#define fooclienthfoo

```

```

/***

```

```

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```

```

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```

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USA.

```

```

***/

```

```

#include <inttypes.h>

```

```

=====
bash-5.1.16: COPYING

```

```

binutils-2.38: COPYING3
binutils-2.38: gas/COPYING
binutils-2.38: include/COPYING3
binutils-2.38: bfd/COPYING
bzip2-1.0.8: COPYING
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xz-5.2.6: COPYING.GPLv3

```

```
=====
```

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Version 3, 29 June 2007

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```
=====
binutils-2.38: COPYING
binutils-2.38: include/COPYING
gcc-runtime-11.4.0: COPYING
gdb-11.2: COPYING
libgcc-11.4.0: COPYING
libgpg-error-1.44: COPYING
```


ntfs-3g-ntfsprogs-2022.10.3: COPYING

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
```

```
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along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```
=====
```

binutils-2.38: COPYING.LIB

gdb-11.2: COPYING.LIB

=====

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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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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In addition, mere aggregation of another work not 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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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.)

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

```
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.
```

```
This library is distributed in the hope that it will be useful,
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```

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Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, USA
```

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
binutils-2.38: COPYING3.LIB
gcc-runtime-11.4.0: COPYING3.LIB
gdb-11.2: COPYING3.LIB
```

gmp-6.2.1: COPYING.LESSERv3
libgcc-11.4.0: COPYING3.LIB
libunistring-1.0: COPYING.LIB
nettle-3.7.3: COPYING.LESSERv3
=====

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Version 3, 29 June 2007

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Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

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object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

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You may convey a covered work under sections 3 and 4 of this License

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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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- b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
- c) For a Combined Work that displays copyright notices during

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d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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```
=====
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=====
```

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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bzip2-1.0.8: LICENSE, 4-37
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```
=====  
coreutils-9.0: src/ls.c, 1-15  
=====
```

```
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=====
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=====
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Theodore Ts'o
23-June-2007

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```

```
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```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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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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```

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```
=====
e2fsprogs-1.46.5: lib/ext2fs/ext2fs.h, 1-9
=====
```

```
/*
 * ext2fs.h --- ext2fs
 *
 * Copyright (C) 1993, 1994, 1995, 1996 Theodore Ts'o.
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %End-Header%
```

```
=====
e2fsprogs-1.46.5: lib/e2p/e2p.h, 1-7
=====
```

```
/*
 * e2p.h --- header file for the e2p library
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
```

```

* %End-Header%

=====
e2fsprogs-1.46.5: lib/uuid/uuid.h.in, 1-32
=====

/*
* Public include file for the UUID library
*
* Copyright (C) 1996, 1997, 1998 Theodore Ts'o.
*
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* %End-Header%

=====
e2fsprogs-1.46.5: lib/uuid/COPYING
util-linux-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.BSD-3-Clause
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```
=====
e2fsprogs-1.46.5: lib/et/et_name.c, 1-11
=====
```

```
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 * express or implied warranty.
```

```
=====
e2fsprogs-1.46.5: lib/ss/ss.h, 1-20
=====
```

```
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 *
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```

```

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*
* This quote is just too good to not pass on:
*
*     "BTW, I would have rejected the name Story Server because its
*     initials are SS, the name of the secret police in Nazi
*     Germany, probably the most despised pair of letters in western
*     culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
*
* Let no one say political correctness isn't dead....

```

```

=====
elfutils-0.186: debuginfod/debuginfod-client.c, 1-27
=====

```

```

/* Retrieve ELF / DWARF / source files from the debuginfod.
   Copyright (C) 2019-2021 Red Hat, Inc.
   This file is part of elfutils.

```

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```

```

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```

```

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  your option) any later version

```

```

or both in parallel, as here.

```

```

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```

```

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```

```

=====
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=====

```

```

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=====
```

```
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```
=====  
fontconfig-2.13.1: src/fcftretype.c, 1-45  
=====
```

```
/*  
 * fontconfig/src/fcftretype.c  
 *  
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 */
```

```
/*  
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```

*/

=====
fontconfig-2.13.1: src/fccache.c, 1671-1686
=====

/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
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 *
 * Equivalent code is available from RSA Data Security, Inc.
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 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */

=====
fpga-manager-script-1.0: fpgautil.c, 1-24
=====

/*****
 *
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 *
 *****/

```

```

/*****/

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freetype-2.11.1: docs/FTL.TXT

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2006-Jan-27

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```
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```
=====
glib-2.0-2.72.3: COPYING
glib-2.0-2.72.3: gmodule/COPYING
glibc-2.35: COPYING.LIB
libgudev-237: COPYING
libndp-1.8: COPYING
libnsl2-2.0.0: COPYING
libxcrypt-4.4.33: COPYING.LIB
networkmanager-1.36.2: COPYING.LGPL
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util-linux-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
util-linux-libuuid-2.37.4: Documentation/licenses/COPYING.LGPL-2.1-or-later
xz-5.2.6: COPYING.LGPLv2.1
=====
```

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```
=====
glib-2.0-2.72.3: glib/glib.h, 4-17
glib-2.0-2.72.3: gmodule/gmodule.h, 4-17
=====
```

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```
=====
glibc-2.35: LICENSES
=====
```

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gmp-6.2.1: COPYINGv3
=====
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Version 3, 29 June 2007

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```
=====
gnutls-3.7.4: LICENSE
=====
```

```
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```
=====
gpgme-1.17.1: src/gpgme.h.in, 1-23
=====
```

```
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 *
 * Generated from gpgme.h.in for @GPGME_CONFIG_HOST@.
 */
```



```

=====
gpgme-1.17.1: src/engine.h, 1-22
=====

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```
=====
iptables-1.8.7: iptables/iptables.c, 13-25
=====
```

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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
=====
kernel-module-mali-r9p0-01rel10: linux/license/gpl/mali_kernel_license.h
=====

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 */

/**
 * @file mali_kernel_license.h
 * Defines for the macro MODULE_LICENSE.
 */
```

```

#ifndef __MALI_KERNEL_LICENSE_H__
#define __MALI_KERNEL_LICENSE_H__

#ifdef __cplusplus
extern "C" {
#endif

#define MALI_KERNEL_LINUX_LICENSE      "GPL"
#define MALI_LICENSE_IS_GPL 1

#ifdef __cplusplus
}
#endif

#endif /* __MALI_KERNEL_LICENSE_H__ */

```

```

=====
keyutils-1.6.1: LICENCE.GPL
=====

```

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```
=====
keyutils-1.6.1: LICENCE.LGPL
=====
```

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Version 2.1, February 1999

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Everyone is permitted to copy and distribute verbatim copies
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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

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can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

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it if you want it; that you can change the software and use pieces of

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the

Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or

derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

```
=====
kmod-29: tools/COPYING
libftdi-1.4: COPYING.GPL
systemd-250.5: LICENSE.GPL2
=====
```

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 Version 2, June 1991

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in 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 Program, 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 Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component

itself accompanies the executable.

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libassuan-2.5.6: COPYING
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Version 3, 29 June 2007

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```
=====
libassuan-2.5.6: src/assuan.c, 1-20
=====

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```

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=====
libassuan-2.5.6: src/assuan-defs.h, 1-20
=====

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```
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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```
=====
libcap-2.66: pam_cap/License
=====
```

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```
=====
libdaemon-0.14: libdaemon/daemon.h, 9-21
=====
```


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```
=====
libdrm-2.4.110: xf86drm.c, 9-32
=====
```

```
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 */
```

```
=====
libevdev-1.12.1: COPYING
=====
```

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=====
```

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```
=====
libftdi-1.4: COPYING.LIB
=====
```

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```

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```

```
<signature of Ty Coon>, 1 April 1990  
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```

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- cipher/sha256-avx-amd64.S
- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S
- cipher/sha512-ssse3-i386.c

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- random/jitterentropy.h
- random/rndjent.c (plus common Libgcrypt copyright holders)

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=====
libpgp-error-1.44: src/gpg-error.h.in, 2-18
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```
=====  
libidn2-2.3.2: src/idn2.c, 1-16  
=====
```

```
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```

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```
*/
```

```
=====  
libidn2-2.3.2: lib/idn2.h.in, 1-27  
=====
```

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```
=====
libjpeg-turbo-2.1.5.1: cdjpeg.h, 1-13
=====
```

/*

* cdjpeg.h

```

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```

```

=====
libjpeg-turbo-2.1.5.1: jpeglib.h, 1-16
=====

```

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*
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*/

```

```

=====
libjpeg-turbo-2.1.5.1: djpeg.c, 1-11
=====

```

```

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End

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```
THE BASIC LIBRARY FUNCTIONS
-----
```

```
Written by:      Philip Hazel
Email local part: Philip.Hazel
Email domain:    gmail.com
```

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rpcbind-1.2.6: src/rpcinfo.c, 1-27
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```

```

*/

=====
libunistring-1.0: README, 45-65
=====

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-----

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=====
libunistring-1.0: 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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A copy of the license is included in @ref{GNU GPL}.
```

```
@end ignore
@end ifinfo
```

```
@titlepage
@title GNU libunistring, version @value{VERSION}
@subtitle updated @value{UPDATED}
@author Bruno Haible
```

```
@ifnohtml
@page
@vskip Opt plus 1filll
@c @insertcopying
Copyright (C) 2001-2022 Free Software Foundation, Inc.
```

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```
@end ifnohtml
@end titlepage
```

```
@c Table of Contents
@contents
```

```
@ifnottex
@node Top
@top GNU libunistring
@end ifnottex
```

```
@menu
* Introduction:: Who may need Unicode strings?
* Conventions:: Conventions used in this manual
* untypes.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
* unigrbrk.h::         Grapheme cluster breaking
* uniwbrk.h::          Word breaks in strings
* unilbrk.h::          Line breaking
* uninorm.h::          Normalization forms
* unicast.h::          Case mappings
* uniregex.h::         Regular expressions
* Using the library::  How to link with the library and use it?
* More functionality:: More advanced functionality
* The wchar_t mess::   Why @code{wchar_t *} strings are useless
* The char32_t problem:: Why @code{char32_t *} strings are problematic
* Licenses::           Licenses

* Index::              General Index

```

@detailmenu

--- The Detailed Node Listing ---

Introduction

```

* Unicode::            What is Unicode?
* Unicode and i18n::   Unicode and internationalization
* Locale encodings::   What is a locale encoding?
* In-memory representation:: How to represent strings in memory?
* char * strings::     What to keep in mind with @code{char *} strings
* Unicode strings::    How are Unicode strings represented?

```

unistr.h

```

* Elementary string checks::
* Elementary string conversions::
* Elementary string functions::
* Elementary string functions with memory allocation::
* Elementary string functions on NUL terminated strings::

```

Elementary string functions

```

* Iterating::
* Creating Unicode strings::
* Copying Unicode strings::
* Comparing Unicode strings::
* Searching for a character::
* Counting characters::

```

Elementary string functions on NUL terminated strings

```

* Iterating over a NUL terminated Unicode string::
* Length::
* 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::

unictype.h

- * General category::
- * Canonical combining class::
- * Bidi class::
- * Decimal digit value::
- * Digit value::
- * Numeric value::
- * Mirrored character::
- * Arabic shaping::
- * Properties::
- * Scripts::
- * Blocks::
- * ISO C and Java syntax::
- * Classifications like in ISO C::

General category

- * Object oriented API::
- * Bit mask API::

Properties

- * Properties as objects::
- * Properties as functions::

unigbrk.h

- * Grapheme cluster breaks in a string::
- * Grapheme cluster break property::

uniwbrk.h

- * Word breaks in a string::
- * Word break property::

uninorm.h

- * Decomposition of characters::
- * Composition of characters::
- * Normalization of strings::
- * Normalizing comparisons::
- * Normalization of streams::

unicase,h

- * Case mappings of characters::
- * Case mappings of strings::
- * Case mappings of substrings::
- * Case insensitive comparison::
- * Case detection::

Using the library

- * Installation::
- * Compiler options::
- * Include files::
- * Autoconf macro::
- * Reporting problems::

Licenses

- * GNU GPL:: GNU General Public License
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@end detailmenu

@end menu

@node Introduction

@chapter Introduction

This library provides functions for manipulating Unicode strings and for manipulating C strings according to the Unicode standard.

It consists of the following parts:

@table @code

@item <unistr.h>

elementary string functions

@item <unicnv.h>

conversion from/to legacy encodings

@item <unistdio.h>

formatted output to strings

@item <uniname.h>

character names

@item <unictype.h>

character classification and properties

@item <uniwidth.h>

string width when using nonproportional fonts

@item <unigbrk.h>

grapheme cluster breaks

@item <uniwbrk.h>

word breaks

```

@item <unilbrk.h>
line breaking algorithm
@item <uninorm.h>
normalization (composition and decomposition)
@item <unicase.h>
case folding
@item <uniregex.h>
regular expressions (not yet implemented)
@end table

@cindex use cases
@cindex value, of libunistring
libunistring is for you if your application involves non-trivial text
processing, such as upper/lower case conversions, line breaking, operations
on words, or more advanced analysis of text. Text provided by the user can,
in general, contain characters of all kinds of scripts. The text processing
functions provided by this library handle all scripts and all languages.

libunistring is for you if your application already uses the ISO C / POSIX
@posixheader{ctype.h}, @posixheader{wctype.h} functions and the text it
operates on is provided by the user and can be in any language.

libunistring is also for you if your application uses Unicode strings as
internal in-memory representation.

@menu
* Unicode::                What is Unicode?
* Unicode and i18n::       Unicode and internationalization
* Locale encodings::      What is a locale encoding?
* In-memory representation:: How to represent strings in memory?
* char * strings::        What to keep in mind with @code{char *} strings
* Unicode strings::       How are Unicode strings represented?
@end menu

@node Unicode
@section Unicode

@cindex Unicode
Unicode is a standardized repertoire of characters that contains characters
from all scripts of the world, from Latin letters to Chinese ideographs
and Babylonian cuneiform glyphs. It also specifies how these characters
are to be rendered on a screen or on paper, and how common text processing
(word selection, line breaking, uppercasing of page titles etc.) is supposed
to behave on Unicode text.

Unicode also specifies three ways of storing sequences of Unicode
characters in a computer whose basic unit of data is an 8-bit byte:
@cindex UTF-8
@cindex UTF-16
@cindex UTF-32

```

```

@cindex UCS-4
@table @asis
@item UTF-8
Every character is represented as 1 to 4 bytes.
@item UTF-16
Every character is represented as 1 to 2 units of 16 bits.
@item UTF-32, a.k.a@. UCS-4
Every character is represented as 1 unit of 32 bits.
@end table

```

For encoding Unicode text in a file, UTF-8 is usually used. For encoding Unicode strings in memory for a program, either of the three encoding forms can be reasonably used.

Unicode is widely used on the web. Prior to the use of Unicode, web pages were in many different encodings (ISO-8859-1 for English, French, Spanish, ISO-8859-2 for Polish, ISO-8859-7 for Greek, KOI8-R for Russian, GB2312 or BIG5 for Chinese, ISO-2022-JP-2 or EUC-JP or Shift_JIS for Japanese, and many many others). It was next to impossible to create a document that contained Chinese and Polish text in the same document. Due to the many encodings for Japanese, even the processing of pure Japanese text was error prone.

References:

```

@itemize @bullet
@item
The Unicode standard:@texnl{} @url{https://www.unicode.org/}
@item
Definition of UTF-8:@texnl{} @url{https://www.rfc-editor.org/rfc/rfc3629.txt}
@item
Definition of UTF-16:@texnl{} @url{https://www.rfc-editor.org/rfc/rfc2781.txt}
@item
Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{}
@url{https://www.cl.cam.ac.uk/~mgk25/unicode.html}
@end itemize

```

```

@node Unicode and i18n
@section Unicode and Internationalization

```

```

@cindex internationalization
Internationalization is the process of changing the source code of a program so that it can meet the expectations of users in any culture, if culture specific data (translations, images etc.) are provided.

```

Use of Unicode is not strictly required for internationalization, but it makes internationalization much easier, because operations that need to look at specific characters (like hyphenation, spell checking, or the automatic conversion of double-quotes to opening and closing double-quote characters) don't need to consider multiple possible encodings of the text.

Use of Unicode also enables multilingualization: the ability of having text

in multiple languages present in the same document or even in the same line of text.

But use of Unicode is not everything. Internationalization usually consists of four features:

@itemize @bullet

@item

Use of Unicode where needed for text processing. This is what this library is for.

@item

Use of message catalogs for messages shown to the user, This is what GNU gettext is about.

@item

Use of locale specific conventions for date and time formats, for numeric formatting, or for sorting of text. This can be done adequately with the POSIX APIs and the implementation of locales in the GNU C library.

@item

In graphical user interfaces, adapting the GUI to the default text direction of the current locale (see

[url{https://en.wikipedia.org/wiki/Right-to-left,right-to-left_languages}](https://en.wikipedia.org/wiki/Right-to-left,right-to-left_languages)).

@end itemize

@node Locale encodings

@section Locale encodings

@cindex locale

A locale is a set of cultural conventions. According to POSIX, for a program, at any moment, there is one locale being designated as the ``current locale''. (Actually, POSIX supports also one locale per thread, but this feature is not yet universally implemented and not widely used.)

@cindex locale categories

The locale is partitioned into several aspects, called the ``categories'' of the locale. The main various aspects are:

@itemize @bullet

@item

The character encoding and the character properties. This is the @code{LC_CTYPE} category.

@item

The sorting rules for text. This is the @code{LC_COLLATE} category.

@item

The language specific translations of messages. This is the @code{LC_MESSAGES} category.

@item

The formatting rules for numbers, such as the decimal separator. This is the @code{LC_NUMERIC} category.

@item

The formatting rules for amounts of money. This is the @code{LC_MONETARY} category.

@item

The formatting of date and time. This is the @code{LC_TIME} category.

@end itemize

@cindex locale encoding

In particular, the @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{strchr} do not work with multibyte strings if the locale encoding is GB18030 and the character to be searched is a digit.

@item

@posixfunc{strstr} does not work with multibyte strings if the locale encoding is different from UTF-8.

@item

@posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn} cannot work correctly in multibyte locales: they assume the second argument is a list of single-byte characters. Even in this simple case, they do not work with multibyte strings if the locale encoding is GB18030 and one of the characters to be searched is a digit.

@item

@posixfunc{strsep} and @posixfunc{strtok_r} do not work with multibyte strings unless all of the delimiter characters are ASCII characters < 0x30.

@item

The @posixfunc{strcasecmp}, @posixfunc{strncasecmp}, and @posixfunc{strcasestr} functions do not work with multibyte strings.

@end itemize

The workarounds can be found in GNU gnuilib
@url{https://www.gnu.org/software/gnuilib/}.

@itemize @bullet

@item

gnuilib has modules @samp{mbchar}, @samp{mbiter}, @samp{mbuiter} that represent multibyte characters and allow to iterate across a multibyte string with the same ease as through a unibyte string.

@item

gnuilib has functions @func{mbslen} and @func{mbswidth} that can be used instead of @posixfunc{strlen} when the number of characters or the number of screen columns of a string is requested.

@item

gnuilib has functions @func{mbschr} and @func{mbsrchr} that are like @posixfunc{strchr} and @posixfunc{strchr}, but work in multibyte locales.

@item

gnuilib has a function @func{mbsstr}, like @posixfunc{strstr}, but works in multibyte locales.

@item

gnuilib has functions @func{mbscspn}, @func{mbspbrk}, @func{mbssp} that are like @posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn}, but work in multibyte locales.

@item

gnuilib has functions @func{mbssep} and @func{mbstok_r} that are

like `@posixfunc{strsep}` and `@posixfunc{strtok_r}` but work in multibyte locales.

@item
 glibc has functions `@func{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 a pointer, or -1 for functions that return an @code{int}).

Functions returning a string result take a @code{(@var{resultbuf}, @var{lengthp})} argument pair. If @var{resultbuf} is not NULL and the result fits into @code{*@var{lengthp}} units, it is put in @var{resultbuf}, and @var{resultbuf} is returned. Otherwise, a freshly allocated string is returned. In both cases, @code{*@var{lengthp}} is set to the length (number of units) of the returned string. In case of error, NULL is returned and @code{errno} is set.

@include unitypes.texi

@include unistr.texi

@include uniconv.texi

@include unistdio.texi

@include uniname.texi

@include unictype.texi

@include uniwidth.texi

@include unigbrk.texi

@include uniwbrk.texi

@include unilbrk.texi

@include uninorm.texi

```
@include unicast.texi
@include uniregex.texi
```

```
@node Using the library
@chapter Using the library
```

This chapter explains some practical considerations, regarding the installation and compiler options that are needed in order to use this library.

```
@menu
* Installation::
* Compiler options::
* Include files::
* Autoconf macro::
* Reporting problems::
@end menu
```

```
@node Installation
@section Installation
```

```
@cindex dependencies
Before you can use the library, it must be installed. First, you have to make sure all dependencies are installed. They are listed in the file @file{DEPENDENCIES}.
```

```
@cindex installation
Then you can proceed to build and install the library, as described in the file @file{INSTALL}. For installation on Windows systems, please refer to the file @file{INSTALL.windows}.
```

```
@node Compiler options
@section Compiler options
```

Let's denote as @code{LIBUNISTRING_PREFIX} the value of the @samp{--prefix} option that you passed to @code{configure} while installing this package. If you didn't pass any @samp{--prefix} option, then the package is installed in @file{/usr/local}.

Let's denote as @code{LIBUNISTRING_INCLUDEDIR} the directory where the include files were installed. This is usually the same as @code{\${LIBUNISTRING_PREFIX}/include}. Except that if you passed an @samp{--includedir} option to @code{configure}, it is the value of that option.

Let's further denote as @code{LIBUNISTRING_LIBDIR} the directory where the library itself was installed. This is the value that you passed with the @samp{--libdir} option to @code{configure}, or otherwise the same as @code{\${LIBUNISTRING_PREFIX}/lib}. Recall that when building in 64-bit mode on a 64-bit GNU/Linux system that supports executables

in either 64-bit mode or 32-bit mode, you should have used the option `--libdir=${LIBUNISTRING_PREFIX}/lib64`.

@cindex compiler options

So that the compiler finds the include files, you have to pass it the option `-I${LIBUNISTRING_INCLUDEDIR}`.

So that the compiler finds the library during its linking pass, you have to pass it the options `-L${LIBUNISTRING_LIBDIR} -lunistring`. On some systems, in some configurations, you also have to pass options needed for linking with `libiconv`. The autoconf macro `gl_LIBUNISTRING` (see @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 `<unistring/version.h>`. It contains the version number of the libunistring library.

@deftypevr Macro int `_LIBUNISTRING_VERSION`

This constant contains the version of libunistring that is being used at compile time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `(major<<8) + minor`.
@end deftypevr

@deftypevr Constant int `_libunistring_version`

This constant contains the version of libunistring that is being used at run time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `(major<<8) + minor`.
@end deftypevr

It is possible that `_libunistring_version` is greater than `_LIBUNISTRING_VERSION`. This can happen when you use `libunistring` as a shared library, and a newer, binary backward-compatible version has been installed after your program that uses `libunistring` was installed.

@node Autoconf macro

@section Autoconf macro

@cindex autoconf macro

GNU Gnulib provides an autoconf macro that tests for the availability of `libunistring`. It is contained in the Gnulib module `libunistring`, see@texnl{}
@url{https://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 submit a detailed bug report either in the bug tracker at the project page

@url{https://savannah.gnu.org/projects/libunistring}, or by email to the @code{bug-libunistring@gnu.org} mailing list.

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 @code{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{https://www.pango.org/}.

@include wchar_t.texi

@include char32_t.texi

@node Licenses

@appendix Licenses

@cindex Licenses

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@itemize @bullet

@item

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@itemize @bullet

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@*

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@*

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@end itemize

@menu

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* GNU LGPL::	GNU Lesser General Public License
* GNU FDL::	GNU Free Documentation License

@end menu

@page

@node GNU GPL

@appendixsec GNU GENERAL PUBLIC LICENSE

@cindex GPL, GNU General Public License

@cindex License, GNU GPL

@include gpl.texi

@page

@node GNU LGPL

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, GNU Lesser General Public License

@cindex License, GNU LGPL

@include lgpl.texi

@page

@node GNU FDL

@appendixsec GNU Free Documentation License

@cindex FDL, GNU Free Documentation License

@cindex License, GNU FDL

@include fdl.texi

@node Index

@unnumbered Index

@printindex cp

@bye

@c Local Variables:

```
@c indent-tabs-mode: nil
@c whitespace-check-buffer-indent: nil
@c End:
```

```
=====
libunwind-1.6.2: COPYING
=====
```

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```
=====
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=====
```

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```
=====
lzo-2.10: src/lzo_init.c, 5-25
=====
```

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```
Markus F.X.J. Oberhumer
<markus@oberhumer.com>
http://www.oberhumer.com/opensource/lzo/
```

```
=====
main-app-1.0: MIT
```

```
openssh-keys-1.0: MIT
```

```
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```

```
=====
```

```
mmc-utils-0.1+git: mmc.c, 1-20
```

```
=====
```

```
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```

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*
```

```
* Modified to add field firmware update support,
* those modifications are Copyright (c) 2016 SanDisk Corp.
```

```
*
```

```
* (This code is based on btrfs-progs/btrfs.c.)
```

```
*/
```



```
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mpfr-4.1.1: COPYING.LESSER  
=====
```

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=====

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It is currently maintained by Marco d'Itri <md@linux.it>.

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=====
nettle-3.7.3: serpent-decrypt.c, 14-36
nettle-3.7.3: serpent-set-key.c, 14-36
=====

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nginx-1.24.0: LICENSE
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noto-sans-cjk-1.0: LICENSE_OFL.txt
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=====
nspr-4.29: configure.in, 3-6
=====

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=====
nspr-4.29: Makefile.in, 4-38
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```

MOD_DEPTH    = .
topsrcdir    = @top_srcdir@
srcdir       = @srcdir@
VPATH        = @srcdir@

include $(MOD_DEPTH)/config/autoconf.mk

DIRS = config pr lib

ifdef MOZILLA_CLIENT
# Make nsinstall use absolute symlinks by default for Mozilla OSX builds
# http://bugzilla.mozilla.org/show_bug.cgi?id=193164
ifeq ($(OS_ARCH), Darwin)
ifndef NSDISTMODE
NSDISTMODE=absolute_symlink
export NSDISTMODE
endif
endif
endif

DIST_GARBAGE = config.cache config.log config.status

all:: config.status export

include $(topsrcdir)/config/rules.mk

config.status:: configure
ifeq ($(OS_ARCH), WINNT)
    sh $(srcdir)/configure --no-create --no-recursion
else

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nss-3.74: nss/COPYING
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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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```
=====
pcsc-lite-1.9.0: COPYING
=====
```

```
Copyright (c) 1999-2003 David Corcoran <corcoran@musclecard.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
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```

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DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Some files are under GNU GPL v3 or any later version

- doc/example/pcsc_demo.c
- the files in src/spy/
- the files in UnitaryTests/

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```
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*
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* are met:
*
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*
* 2. Redistributions in binary form must reproduce the above copyright
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* DAMAGE.
*
* Author: Nikos Mavrogiannopoulos <nmav@redhat.com>
```


Files src/simclist.c and src/simclist.h are:

```
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* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```

```
=====
perl-5.34.3: Copying
=====
```

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Version 1, February 1989

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 1, or (at your option)
any later version.
```

```
This program is distributed in the hope that it will be useful,
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```

```
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```

Also add information on how to contact you by electronic and paper mail.

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
perl-5.34.3: Artistic
=====
```

The "Artistic License"

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The End

```
=====
polkit-0.119: COPYING
=====
```

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When a "work that uses the Library" uses material from a header file

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```
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```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
=====
polkit-0.119: src/polkit/polkit.h, 1-20
=====
```

```
/*
 * Copyright (C) 2008 Red Hat, Inc.
```

```

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* Boston, MA 02111-1307, USA.
*
* Author: David Zeuthen <davidz@redhat.com>
*/

```

```

=====
popt-1.18: COPYING
=====

```

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```

=====
pugixml-1.12: readme.txt, 29-52
=====

```

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```
=====
python3-3.10.13: LICENSE
=====
```

A. HISTORY OF THE SOFTWARE

```
=====
```

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python

releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Upon expiry of the initially agreed Development License Term, the respective Development License Term shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing, or any other method acceptable to The Qt Company (it being specifically acknowledged and understood that verbal notification is explicitly deemed inadequate in all circumstances), that it does not wish to continue the Development License Term, such notification to be provided to the other Party no less than thirty (30) days before expiry of the respective Development License Term. The Qt Company shall, in good time before the due date for the above notification, remind the Licensee on the coming Renewal Term. Unless otherwise agreed between the Parties, Renewal Term shall be 12 months.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard list pricing applicable at the commencement date of any such Renewal Term.

3.6 Evaluation License

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for the Evaluation License Term to use the Licensed Software solely for the Licensee's internal use to evaluate and determine whether the Licensed Software meets Licensee's business requirements, specifically excluding any commercial use of the Licensed Software or any derived work thereof.

Upon the expiry of the Evaluation License Term, Licensee must either discontinue use of the relevant Licensed Software or acquire a commercial Development License or QA Tools License specified herein.

4. THIRD-PARTY SOFTWARE

The Licensed Software may provide links or access to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not, however, comprise part of the Licensed Software, but is provided to Licensee complimentary and use thereof is discretionary for the Licensee. Third-Party Software will be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to

applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample", "Example" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that (i) it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement, and (ii) Licensed Software will operate materially in accordance with its specifications.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. LIMITATION OF LIABILITY

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY BY LICENSEE DURING THE DEVELOPMENT LICENSE TERM DURING WHICH THE EVENT RESULTING IN SUCH LIABILITY OCCURRED.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the agreed Development License Term or other agreed fixed time period. Support is provided according to agreed support level and subject to applicable requirements and restrictions, as specified in the Support Terms.

Unless otherwise decided by The Qt Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support Terms, provided that during the respective ongoing Support period the level of Support may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Agreement Term each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other

Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an Appendix 2 hereto, as the case may be.

Unless otherwise expressly provided in this Agreement, the License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses

Licensee may purchase Development Licenses, Distribution Licenses and QA Tools

Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase.

Unless expressly otherwise agreed, any price or other term quoted to the Licensee or specified herein shall only be valid for the thirty (30) days from the effective date of this Agreement, Appendix 2 or the date of the quote, as applicable.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

Licensee acknowledges and agrees that all Purchase Orders for Licensed Software the Licensee makes during the Agreement Term shall be governed exclusively under the terms of this Agreement.

10.3. Distribution License Packs

Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms

License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due and which have not been disputed by the Licensee in good faith.

10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping

Licensee shall at all times during the Agreement Term and for a period of two (2) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, , and (iii) any other information pertaining to Licensee's compliance with the terms of this Agreement (like e.g. information on products and/or projects relating to use of Distribution Licenses), as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least thirty (30) days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any possible in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities and shall be limited in scope to verify Licensee's compliance with the terms of this Agreement. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee shall pay to The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the

corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force until terminated pursuant to the terms of this Section 12 ("Agreement Term").

12.2. Termination for breach and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within ten (10) business days following The Qt Company's written notice thereof.

12.3. Termination for insolvency

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software under this Agreement. For clarity, a Development License of a Designated User or a QA Tools License, and all rights relating thereto, shall always terminate at the expiry of the respective Development License Term, even if the Agreement continues to remain in force.

Upon such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same by Licensee's duly authorized officer to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Except when this Agreement is terminated by The Qt Company due to Licensee's material breach as set forth in Section 12.2, the Licensee may continue distribution of Applications and Devices under the terms of this Agreement despite the termination of this Agreement. In such event the terms hereof will continue to be applicable and govern any such distribution of Applications and Devices beyond the expiry or termination of this Agreement. In case of termination by The Qt Company due to Licensee's material breach, Licensee must cease any distribution of Applications and Devices at the date of termination of this Agreement.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee pay to The Qt Company all such fees within 30 days from the effective date of termination of this Agreement.

Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension of Rights under Special Circumstances

In the event of The Qt Company choosing not to renew the Development License(s) or QA Tools Licenses, as set forth in Section 3.1 and 3.5 respectively, and where such decision of non-renewal is not due to any ongoing breach or alleged breach (as reasonably determined by The Qt Company) by Licensee of the terms of this Agreement or any applicable license terms of Open Source Qt, then all valid and affected Development Licenses and QA Tools licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2.

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) or QA Tools Licenses, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid Development Licenses and QA Tools Licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

For clarity, in case of an extension under this Section 12.5, any such

extension shall not apply to The Qt Company's Support obligations, but Support shall be provided only up until the end of the respective fixed Development License Term regardless of the extension of relevant Development License or QA Tools License, unless otherwise agreed between the Parties.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of International Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written

consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement

This Agreement, the Appendices hereto, the License Certificate and any applicable quote and Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.

14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the

event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action, as to be ordered by the relevant dispute resolution body.

14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement,

The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data will be primarily collected from the relevant individuals but may be collected also from Licensee (e.g. in the course of Licensee's reporting obligations). The Parties acknowledge that as The Qt Company determines the purpose and means for such collection and processing of the applicable personal data, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy and security policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

14.13. Marketing Rights

Parties have agreed upon Marketing Rights pursuant to Appendix 7, if any.

APPENDICES

The Agreement includes following Appendices 1-10, as applicable.

- Appendix 1: Licensed Software details
- Appendix 2: Pricing
- Appendix 3: Add-on Software details (optional)
- Appendix 4: Small business and startup Licenses (optional)
- Appendix 5: Non-commercial and educational Licenses (optional)
- Appendix 6: License Reporting (optional)
- Appendix 7: Marketing Rights (optional)
- Appendix 8: Intentionally left blank (optional)
- Appendix 9: Support Terms
- Appendix 10: Conversion from legacy Licenses to Subscription (optional)

APPENDIX 1: LICENSED SOFTWARE

The modules and/or tools that are included in the latest publicly available version of the respective product at the effective date of this Agreement- Qt for Application Development Professional (ADP), Qt for Application Development Enterprise (ADE), Qt for Device Creation Professional (DCP), Qt for Device Creation Enterprise (DCE), - are marked with "X" in the below table. The modules and tools are specific to each product version respectively and may vary from version to version. Modules and tools included in the latest publicly

available version of the respective product at any given time are listed in Appendix 1 of the latest version of this Agreement available at www.qt.io/terms-conditions/. If a new version of Licensed Software does not include a module or tool present in an older version which Licensee is entitled to use under a valid license from The Qt Company, then Licensee will continue to have such right during the Term of this Agreement. In the event a new version of the Licensed Software adds modules or tools to any previous version(s), Licensee's rights will extend to cover also such additional modules and tools.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with "R" in the below table.

Modules / Tools	ADP	ADE	DCP	DCE
Active Qt	X,R	X,R	X,R	X,R
Qt 3D	X,R	X,R	X,R	X,R
Qt 5 Core Compatibility APIs	X,R	X,R	X,R	X,R
Qt Android Extras	X,R	X,R	X,R	X,R
Qt Bluetooth	X,R	X,R	X,R	X,R
Qt Canvas 3D	X,R	X,R	X,R	X,R
Qt Charts	X,R	X,R	X,R	X,R
Qt Concurrent	X,R	X,R	X,R	X,R
Qt Core	X,R	X,R	X,R	X,R
Qt Data Visualization	X,R	X,R	X,R	X,R
Qt D-Bus	X,R	X,R	X,R	X,R
Qt for Python	X,R	X,R	X,R	X,R
Qt for WebAssembly	X,R	X,R	X,R	X,R
Qt Gamepad	X,R	X,R	X,R	X,R
Qt Graphical Effects	X,R	X,R	X,R	X,R
Qt GUI	X,R	X,R	X,R	X,R
Qt Help	X,R	X,R	X,R	X,R

Qt Image Formats	X,R X,R X,R X,R
+-----+	
Qt Location	X,R X,R X,R X,R
+-----+	
Qt Lottie Animation	X,R X,R X,R X,R
+-----+	
Qt Mac Extras	X,R X,R X,R X,R
+-----+	
Qt Multimedia	X,R X,R X,R X,R
+-----+	
Qt Multimedia Widgets	X,R X,R X,R X,R
+-----+	
Qt Network	X,R X,R X,R X,R
+-----+	
Qt Network Authorization	X,R X,R X,R X,R
+-----+	
Qt NFC	X,R X,R X,R X,R
+-----+	
Qt OpenGL	X,R X,R X,R X,R
+-----+	
Qt PDF	X,R X,R X,R X,R
+-----+	
Qt Platform Headers	X,R X,R X,R X,R
+-----+	
Qt Positioning	X,R X,R X,R X,R
+-----+	
Qt Print Support	X,R X,R X,R X,R
+-----+	
Qt Purchasing	X,R X,R X,R X,R
+-----+	
Qt QML	X,R X,R X,R X,R
+-----+	
Qt Quick	X,R X,R X,R X,R
+-----+	
Qt Quick 3D	X,R X,R X,R X,R
+-----+	
Qt Quick Controls 1	X,R X,R X,R X,R
+-----+	
Qt Quick Controls	X,R X,R X,R X,R
+-----+	
Qt Quick Dialogs	X,R X,R X,R X,R
+-----+	
Qt Quick Extras	X,R X,R X,R X,R
+-----+	
Qt Quick Layouts	X,R X,R X,R X,R
+-----+	
Qt Quick Test	X,R X,R X,R X,R
+-----+	
Qt Quick Timeline	X,R X,R X,R X,R
+-----+	

Qt Quick WebGL	X,R X,R X,R X,R
+-----+	
Qt Quick Widgets	X,R X,R X,R X,R
+-----+	
Qt Remote Objects	X,R X,R X,R X,R
+-----+	
Qt Script	X,R X,R X,R X,R
+-----+	
Qt Script Tools	X,R X,R X,R X,R
+-----+	
Qt SCXML	X,R X,R X,R X,R
+-----+	
Qt Sensors	X,R X,R X,R X,R
+-----+	
Qt Serial Bus	X,R X,R X,R X,R
+-----+	
Qt Serial Port	X,R X,R X,R X,R
+-----+	
Qt Shader Tools	X,R X,R X,R X,R
+-----+	
Qt Speech	X,R X,R X,R X,R
+-----+	
Qt State Machine	X,R X,R X,R X,R
+-----+	
Qt SQL	X,R X,R X,R X,R
+-----+	
Qt SVG	X,R X,R X,R X,R
+-----+	
Qt Test	X,R X,R X,R X,R
+-----+	
Qt UI Tools	X,R X,R X,R X,R
+-----+	
Qt Virtual Keyboard	X,R X,R X,R X,R
+-----+	
Qt Wayland Compositor	X,R X,R X,R X,R
+-----+	
Qt WebChannel	X,R X,R X,R X,R
+-----+	
Qt WebEngine	X,R X,R X,R X,R
+-----+	
Qt WebSockets	X,R X,R X,R X,R
+-----+	
Qt WebView	X,R X,R X,R X,R
+-----+	
Qt Widgets	X,R X,R X,R X,R
+-----+	
Qt Windows Extras	X,R X,R X,R X,R
+-----+	
Qt X11 Extras	X,R X,R X,R X,R
+-----+	

Qt XML	X,R	X,R	X,R	X,R	
+-----+					
Qt XML Patterns	X,R	X,R	X,R	X,R	
+-----+					
Qt Designer (Qt Widget Designer)	X,R	X,R	X,R	X,R	
+-----+					
Qt Linguist	X,R	X,R	X,R	X,R	
+-----+					
Qt Assistant	X,R	X,R	X,R	X,R	
+-----+					
lupdate	X,R	X,R	X,R	X,R	
+-----+					
lrelease	X,R	X,R	X,R	X,R	
+-----+					
lconvert	X,R	X,R	X,R	X,R	
+-----+					
Qt MQTT		X,R	X,R	X,R	
+-----+					
Qt KNX		X,R	X,R	X,R	
+-----+					
Qt OPC UA		X,R	X,R	X,R	
+-----+					
Qt CoAP		X,R	X,R	X,R	
+-----+					
Boot 2 Qt stacks			X,R	X,R	
+-----+					
Qt OTA			X,R	X,R	
+-----+					
Device Utilities			X,R	X,R	
+-----+					
Qt Debugging Bridge (QBD) Daemon			X,R	X,R	
+-----+					
Qt Quick Ultralite Controls			X,R	X,R	
+-----+					
Qt Quick Ultralite			X,R	X,R	
+-----+					
Qt Safe Renderer (QSR)				X,R	
+-----+					
Qt Application Manager				X,R	
+-----+					
Qt Interface Framework				X,R	
+-----+					
Neptune Reference UI				X,R	
+-----+					
Qt for Android Automotive (QAA)				X,R	
+-----+					
Qt Creator	X	X	X	X	
+-----+					
Qt Design Studio Professional	X	X	X	X	
+-----+					

androiddeployqt	X	X	X	X	
+-----+					
androidtestrunner	X	X	X	X	
+-----+					
canbusutil	X	X	X	X	
+-----+					
dumpcpp	X	X	X	X	
+-----+					
dumpdoc	X	X	X	X	
+-----+					
fixqt4headers.pl	X	X	X	X	
+-----+					
idc	X	X	X	X	
+-----+					
moc	X	X	X	X	
+-----+					
pixeltool	X	X	X	X	
+-----+					
qdbus	X	X	X	X	
+-----+					
qdbuscpp2xml	X	X	X	X	
+-----+					
qdbusviewer	X	X	X	X	
+-----+					
qdbusxml2cpp	X	X	X	X	
+-----+					
qdistancefieldgenerator	X	X	X	X	
+-----+					
qdoc	X	X	X	X	
+-----+					
qhelpgenerator	X	X	X	X	
+-----+					
qlalr	X	X	X	X	
+-----+					
qmake	X	X	X	X	
+-----+					
qml	X	X	X	X	
+-----+					
qmlcachegen	X	X	X	X	
+-----+					
qmlDOM	X	X	X	X	
+-----+					
qmlleasing	X	X	X	X	
+-----+					
qmlformat	X	X	X	X	
+-----+					
qmlLint	X	X	X	X	
+-----+					
qmlpreview	X	X	X	X	
+-----+					

qmlprofiler	X	X	X	X	
+-----+					
qmlscene	X	X	X	X	
+-----+					
qmltestrunner	X	X	X	X	
+-----+					
qmltime	X	X	X	X	
+-----+					
qmlviewer	X	X	X	X	
+-----+					
qtdiag	X	X	X	X	
+-----+					
qtpaths	X	X	X	X	
+-----+					
qtplugininfo	X	X	X	X	
+-----+					
qvkgen	X	X	X	X	
+-----+					
rcc	X	X	X	X	
+-----+					
tracegen	X	X	X	X	
+-----+					
uic	X	X	X	X	
+-----+					
windeployqt	X	X	X	X	
+-----+					
Target toolchains			X	X	
+-----+					
Qt Debugging Bridge Host Tools			X	X	
+-----+					
qtconfig-gui			X	X	
+-----+					
Qt Emulator			X	X	
+-----+					
Qt Creator VxWorks plugin			X	X	
+-----+					
Qt Creator plugin for Qt				X	
Application Manager					
+-----+					
qmlinterfacegenerator				X	
+-----+					
qmltoccpp				X	
+-----+					
qulfontcompiler				X	
+-----+					
Qt Deployment Server				X	
+-----+					

Rights for Application and Device use cases

Following table summarizes the rights afforded by different products of the Licensed Software to create and distribute Applications and Devices as defined in this Agreement (X marks for rights):

	Applications	Devices
ADP	X	
ADE	X	
DCP	X	X
DCE	X	X

Licensed Software: Designer tools and modules

The modules and/or tools that are included in the respective product - Qt for Design Studio Professional (DSP), Qt for Design Studio Enterprise (DSE) - are marked with "X" in the below table.

Designer tools provides no Redistributables.

	DSP	DSE
Qt Design Studio	X	X
Qt Design Bridges		X
QML Live on host	X	X
QML Live on target		X
Variant Management		X
Shader creation tools		X
Profiling tools		X
Simulink support		X

Both DSP and DSE can be used to create an user interface for use cases covered by ADP, ADE, DCP and DCE.

Licensed Software: QA Tools

The modules and/or tools that are included in the respective QA Tools product - Squish (both Tester and execution Licenses), Coco or Test Center - are marked with "X" in the below table. Optional features that will need additional licenses are marked with "O". QA Tools include no Redistributables.

	Squish	Coco	Test Center
Squish IDE	X		
QA Tool-specific command line tools	X	X	X
Coverage Browser		X	
HTML interface			X
Qt Support Module	X		
Java support module	X		
Windows support module	X		
iOS support module	X		
Android support module	X		
Web support module	X		
macOS support module	X		
VNC support module	X		
MCU support module	X		
C and C++ language module		X	
C# language module		X	
QML language module		X	
Tester Cross-Compilation Add-On	O	O	

License capabilities for Squish

License capabilities that are included in the Squish Tester and Execution Licenses are marked with "X" in the below table.

-----+

	Squish Tester License	Squish Execution License
Ability to create, edit, and debug test cases	X	
Ability to execute test cases	X	X

Install and use capabilities for QA Tools

Install and use capabilities that are included in the respective QA Tools products are defined in the below table.

	Squish Tester License	Squish Execution License	Coco License	Test Center License
Number of installation instances per license	Unlimited	Unlimited	Unlimited	One (1)
Number of concurrent users	Limited by number of Squish Tester Licenses	Limited by number of Squish Execution Licenses	Limited by number of Coco Tester Licenses	Limited by number of Test Center Licenses

APPENDIX 2: PRICING

Separate template

APPENDIX 3: ADD-ON PRODUCTS TO LICENSED SOFTWARE

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APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

Start-up Companies are qualified for a discounted License Fee for maximum of four (4) Development Licenses ("Start-up Development License") unless otherwise agreed between the parties.

Start-up Development License entitles the respective Designated User for

Support only for Install Support as defined in Appendix 9, Support Terms.

Upon expiry of the respective Development License Term, the Start-up Development Licenses shall be automatically extended, pursuant to Section 3.1 of the Agreement, for a Renewal Term either as new Start-up Development Licenses (if the Licensee still qualifies as a Start-up Company), or as normal then standard list price Development Licenses (if the Licensee no longer qualifies as a Start-up Company).

APPENDIX 5: NON-COMMERCIAL AND EDUCATIONAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Agreement Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Agreement Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose. Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software. Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use

Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 3.5, 3.6, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

"Licensee shall not:

- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;
- transfer, publish, sublicense, disclose, display or otherwise make the Licensed Software available to any third party (except that Licensee may demonstrate the Demo Units pursuant to Section 3.1);
- in any way combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt; Licensee shall cause all Designated Users who make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof. Licensee shall be responsible for any and all actions and omissions of its Designated Users relating to the Licensed Software and use thereof. Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company."

V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Agreement Term, unless and until terminated pursuant to the terms of Section 12.

Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred."

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

APPENDIX 6: LICENSE REPORTING

Separate template

APPENDIX 7: MARKETING RIGHTS

This Appendix 7 has the purpose to grant visibility through The Qt Company marketing channels of the usage of Qt and related product and service in Licensee product. Following related marketing right are agreed between the Qt Company and the Licensee.

1. LICENSEE NAME AND LICENSEE LOGO

The Qt Company has the right to use Licensee name and Licensee logo in public

channel, in respect of the value proposition that the Qt company provided to the Licensee.

2. MARKETING CONTENT COOPERATION

2.1. LICENSEE CASES

The Licensee is open to collaborate on content creation for marketing and communication purpose. The Licensee will nominate one responsible that will be in charge to support The Qt company with this content creation, according to content format paragraph, answering technical questions or sharing professional picture or video of required content. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

2.2. FINAL PRODUCT REFERRAL

Licensee agree that The Qt Company could connect their software product and services with the Licensee device or application, that the Licensee has created using The Qt Company technology and competence. Licensee will provide high quality picture, and video of the created final product where the Qt technology is running into. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

3. CONTENT FORMAT

- Video
- Written Licensee case
- Press release
- Social media posts
- Emails
- Event booth Graphics
- Printed material

4. CHANNELS

- Social media
- The Qt Company resource center and website
- Email to the Qt company contact database
- Events
- Online webinars
- Public speech
- Public presentations

APPENDIX 8: INTENTIONALLY LEFT BLANK

APPENDIX 9: SUPPORT TERMS

These Qt support terms and conditions ("Support Terms") set forth the legal framework, where under The Qt Company ("The Qt Company") provides support services (as herein defined) to the Licensee.

1 DEFINITIONS

"Application Code" shall mean a computer software program written strictly using the Qt programming language, by or for the Licensee, with a user interface, enabling the Licensee or their users to accomplish a specific task and display any results of the task on the display monitor or screen.

"Dedicated Contact" shall mean the employee of The Qt Company who will be the first point of contact for all Designated Users' requests for Support.

"Errors" shall mean an error, flaw, mistake, failure, or fault in Licensed Software that prevents it from behaving as described in the relevant documentation or as agreed between the Parties.

"Extended Support" shall mean a continuation to the normal Support period, which allows Designated Users to receive selected Support (Standard Support or Premium Support) for a version of Licensed Software that is no longer generally supported by The Qt Company.

"Install Support" shall mean Support that is limited to installation related Error(s) on Development Platforms specified as supported host platforms for each Qt release under doc.qt.io.

"Maintenance Release" shall mean a release or version of Licensed Software containing bug fixes, error corrections and other changes targeted to maintaining and improving product stability and quality. Maintenance Releases are generally depicted as a change to the third digit of Licensed Software version number.

"Platforms" shall mean both Development Platforms and Deployment Platforms. Supported host and target Platforms may vary from for each Qt release as defined under doc.qt.io.

"Premium Support" shall mean an upgraded level of Support that The Qt Company provides pursuant to these Support Terms to Licensee if Licensee has purchased Premium Support instead of Standard Support. Premium Support shall always be purchased for all Designated User(s) in the respective development team of the Licensee.

"Response Time" shall mean the period of time from when Licensee notifies TheQt Company about an Error or requests Support until The Qt Company provides Licensee with a response that addresses (but not necessarily resolves) the reported Error or provides the requested Support.

"Standard Support" shall mean standard level of Support that The Qt Company provides pursuant to these Support Terms to Licensee.

"Support" shall mean developer assistance that is provided by The Qt Company to assist eligible Designated Users in Licensed Software installation, usage

and functionality problem resolution for Error(s) and Error workarounds pursuant to the terms of these Support Terms. Support for different products is available as specified in the below table ("X" marking the Support that is included in the license price, optional Add-on Support services are marked as "O"):

	ADP	ADE	DCP	DCE	DSP	DSE	Squish	Coco	Test Center
Install Support	X	X	X	X	X	X	X	X	X
Standard Support		X	X	X	X	X	X	X	X
Premium Support		O	O	O	O	O	O	O	O
Extended Support		O	O	O	O	O			
Tool Qualification Kit							O	O	

"Support Validity Term" shall mean the Development License Term or any other fixed time period agreed between the Parties during which time the Customer is eligible to receive Support from The Qt Company.

"Tool Qualification Kit" shall mean a customized set of documents and validation test cases.

2 SUPPORT SERVICES

2.1 Support Services Provided by The Qt Company

Subject to these Support Terms and during the Support Validity Term, The Qt Company will via its web-based support user-interface, provide Designated User(s) with Support for the Platforms which Customer has licensed under the Agreement.

The Qt Company will make commercially reasonable efforts to solve any Errors reported by Designated User(s). Resolution of an Error may be provided through Designated User(s) themselves downloading of a later released version of the applicable Licensed Software product(s) or providing the Designated User with a temporary workaround addressing such Error.

2.2 Licensee's Obligations

To report an Error, the Designated User shall register the Error on The Qt Company's web-based support user interface located at:
<https://account.qt.io/login> or at another location designated by The Qt Company.

The Designated User must provide adequate information and documentation to The Qt Company to enable it to recreate the Error or problem for which the Designated User has sought assistance.

To ensure efficient handling of Errors, the Designated User must provide the following information, where relevant:

- A clear, detailed description of the problem, question or suggestion;
- Identification of which Licensed Software product and version is affected;
- Identification of the operating environment (e.g. operating system, hardware Platform, build tools, etc.) on which the problem exists;
- On Standard Support: A complete and compilable test case of not more than 500 lines of code that demonstrates the problem;
- On Premium Support: A complete and compilable test case that demonstrates the problem or access to Application Code source codes.

Additional relevant content, such as screenshots, etc.

Additional content should be included as attachments. The preferred image formats are JPEG and PNG. Compressed content should be included in zip or tar.gz archives. Executable content and documents in platform specific formats such as Microsoft Office' are not accepted.

In order for The Qt Company to provide prompt handling of Errors, the Designated User shall promptly respond to any requests from The Qt Company for additional information.

2.3 Support Limitations

General limitations:

Each version or release of the Licensed Software will be Supported under Standard Support or Premium Support only for limited time period as set forth in doc.qt.io. For example, regular releases of Qt Software are supported for one (1) year from the release date of the version x.y.0 and Long Term Support (LTS) Releases are supported for a period of three (3) years from the release date of the LTS version x.y.0.

The Qt Company shall only provide Support for Designated User(s).

Support is made available for the entire development teams only: It is not allowed to purchase Support only for some members of the development team, and all Designated Users of the respective development team must be eligible for the same level of Support.

Support is not provided for snapshots, preview releases, beta releases or release candidates.

The Qt Company shall have no obligation to provide Support for hardware or operating system specific problems or problems arising from improper use, accident, neglect or modification of Qt.

Limitations with Install Support:

Support limited to Error(s) regarding installation and setting up of the Qt development environment on host Platforms.

Limitations with Standard Support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software even if such third-party software is distributed together with Licensed Software product(s).

The Qt Company shall only provide Support for Error(s) that are reported on and can be reproduced on Platforms that are officially supported for the release of the Licensed Software.

Limitations with Premium support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software. However, if such third-party software is distributed together with Licensed Software, The Qt Company will make commercially reasonable efforts to solve such problems.

The Qt Company shall only provide Support for Error(s) that can be reproduced on Platforms that are officially supported for the release of the Licensed Software. If the Error is on a Platform that is not supported, The Qt Company will make commercially reasonable efforts to provide a solution on closest corresponding supported Platform.

Premium Support is optional and purchased for an agreed bucket of hours ("Bucket"). Hours can be used by any Designated User in the respective development team. To encourage continuous usage of the Support, ten percent (10%) of the purchased Bucket shall automatically expire (regardless of whether such support hours are actually used or not by the Licensee) each month after three (3) months from the purchase of the Premium Support.

2.4 Extended Support

Extended Support extends the Support Validity Term for a release of Licensed Software that is no longer generally supported.

Extended Support includes and is by default provided with Standard Support rules and limitations, unless Extended Support is purchased with Premium Support in which case Premium Support rules and limitations will apply.

Extended Support is optional and purchased with annual fee and separately per each Licensee product. Extended Support will need definition of (i) Licensee product, (ii) used Platform(s) and (iii) Licensed Software version(s).

2.5 Tool Qualification Kit

The Qt Company shall provide set of customized documents and validation tests that enable Licensee to qualify QA testing tool for the purpose of ISO 26262, EN 50128, DO-330, IEC 61508, IEC 62304 or IEC 13485 certification Licensee end to end solution.

3 RESPONSE TIME

In performing Support, The Qt Company shall commit to following, non-binding, Response Times:

Standard Support: Errors and Support requests will have a Response Time not to exceed two (2) business days.

Premium Support: Errors and Support requests will have a Response Time not to exceed one (1) business day.

For complex issues, The Qt Company may provide an initial response to the Designated User and then follow up, without undue delay, with additional communication before an Error is properly addressed or Support provided.

4 ADDITIONAL SERVICES IN PREMIUM SUPPORT

The Designated User(s) will be assigned a Dedicated Contact to handle requests for Support. Dedicated Contact is subject to change in cases such as sick leave, vacation and other similar reasons.

The Designated User(s) can on request ask The Qt Company to access their computer remotely in order to resolve problems directly.

The Designated User(s) can request a session via Instant Messaging or phone call in the support request to The Qt Company.

Premium Support can assist Licensee in implementing new features, bug fixes and accessing patches in Licensed Software or Application Code.

All Support requests will be handled with high priority.

5 MAINTENANCE RELEASES, UPDATES AND UPGRADES

Under the Support the Customer is eligible for Maintenance Releases and Updates that The Qt Company generally makes available to customers who has purchased Support. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be provided under the Support.

The primary focus of Maintenance Releases is product quality. Therefore, each Maintenance Release typically includes the following types of changes to the previous version of Licensed Software:

- Bug fixes caused by changes to previously working code;
- Fixes related to build issues on supported Platforms;
- Error corrections specific to a single Platform that are not present on other Platforms;
- Critical Error corrections such as crashes, data corruption, loss of data, race conditions; and
- Updates to documentation and license information when deemed necessary by

The Qt Company.

The primary focus of Updates is introducing new features to Licensed Software and covering new platforms. Therefore, each Updates typically includes the following types of changes to the previous version of Licensed Software:

- New platform support;
- New toolchain support;
- New features and Qt modules;

6 WARRANTY DISCLAIMER

The Qt Company makes no warranties that the Support provided will be successful in resolving any difficulties or problems or in diagnosing faults reported by Licensee. Support is provided to Licensee on an "as is" basis. To the maximum extent permitted by applicable law, The Qt Company disclaims all warranties and conditions, either express or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose for the Support provided by The Qt Company to Licensee.

APPENDIX 10: CONVERSION TO SUBSCRIPTION

Subject to the terms of this Appendix Licensee's current development licenses ("Current Licenses") for commercial version of Qt Software and the license agreements governing such Current Licenses ("Existing Agreements") are being replaced by this Agreement and subscription based Development Licenses governed hereunder, as further specified below.

```
+-----+
| Existing Agreement(s)      | <Trolltech, Nokia, Digia, The Qt Company> and |
| signing parties, version  | <Licensee> <Version of the Agreement, e.g. 2,0, |
| and date of signatures   | 3.2 or 4.1> <Date of the agreement signatures> |
| thereof                   |                                     |
+-----+
```

Parties hereby agree on conversion of Current Licenses listed in attached Exhibit A to the subscription licenses listed in attached Exhibit B for use through License Term. As of the date hereof,

- i. Licensee's Current Licenses as listed in Exhibit A shall terminate and be replaced with the Subscription licenses listed in Exhibit B and;
- ii. Existing Agreements are terminated.

Prices for the conversion of Current Licenses are defined in Appendix 2 Pricing or Quote.

Notwithstanding anything in this Appendix to the contrary, and in addition to any payments due pursuant to this Appendix, Licensee remains fully obligated to fulfill any and all outstanding payment obligations to The Qt Company under any applicable Existing Agreements. For the avoidance of doubt, if any payments remain outstanding on the Current Licenses under the applicable terms Licensee

will continue to make such payments in accordance with the applicable order documentation, notwithstanding the fact that the Current Licenses are being converted to Development Licenses pursuant to this Appendix.

```
=====
rpcbind-1.2.6: COPYING
=====
```

```
/*
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 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
```

```
=====
sed-4.8: sed/sed.h, 1-15
=====
```

```
/* GNU SED, a batch stream editor.
   Copyright (C) 1989-2020 Free Software Foundation, Inc.
```

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 3, or (at your option)
any later version.
```

```
This program is distributed in the hope that it will be useful,
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
```

You should have received a copy of the GNU General Public License
along with this program; If not, see <<https://www.gnu.org/licenses/>>. */

```
=====
shadow-4.11.1: COPYING
=====
```

SPDX-License-Identifier: BSD-3-Clause

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1. fall under the BSD 3 clause license (by default).
2. carry an SPDX header declaring what license applies.

or

3. list a full custom license

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*

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*

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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
* OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
shadow-4.11.1: src/passwd.c, 2-30
=====

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*/

#include <config.h>

#ident "$Id$"

#include <errno.h>
#include <fcntl.h>
#include <getopt.h>
#include <pwd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <time.h>
#include "defines.h"
#include "getdef.h"
#include "nscd.h"
#include "sssd.h"
#include "prototypes.h"
#include "pwauth.h"
#include "pwio.h"
#include "shadowio.h"
#include "shadowlog.h"

=====
slang-2.3.2: COPYING
=====
```

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=====
sqlite3-3.38.5: sqlite3.h, 1-11
=====
```

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=====
```

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=====
```

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=====
wayland-1.20.0: src/wayland-server.c, 1-24
=====
```

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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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*/
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```
=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
=====
```

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xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====
```

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```
*/
```

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xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30
=====
```

```
/*
```

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```
*/
```

```
=====
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24
=====
```

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```
=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
=====
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```
=====  
xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24  
=====
```

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```
=====  
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27  
=====
```

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```
=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
=====
```

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/*
```

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```
*/
```

```
=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====
```

```
/*
```

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```

```

=====
xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
=====

```

```

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xz-5.2.6: lib/getopt.c, 1-23
=====
```

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```

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=====
zlib-1.2.11: zlib.h, 6-23
=====
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