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The original Apache license was similar to the Berkeley license, but source code published under version 2 of the Apache license is subject to additional restrictions and cannot be included into OpenBSD. In particular, if you use code under the Apache 2 license, some of your rights will terminate if you claim in court that the code violates a patent.

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In addition, the clause about the patent license is problematic because a patent license cannot be granted under Copyright law, but only under contract law, which drags the whole license into the domain of contract law. But while Copyright law is somewhat standardized by international agreements, contract law differs wildly among jurisdictions. So what the license means in different jurisdictions may vary and is hard to predict.

ISC

The ISC copyright is functionally equivalent to a two-term BSD copyright with language removed that is made unnecessary by the Berne convention. This is the preferred license for new code incorporated into OpenBSD. A sample license is available in the file [/usr/share/misc/license.template](https://cvsweb.openbsd.org/src/share/misc/license.template?rev=HEAD).

GNU General Public License, GPL, LGPL, copyleft, etc.

The GNU Public License and licenses modeled on it impose the restriction that source code must be distributed or made available for all works that are derivatives of the GNU copyrighted code.

While this may superficially look like a noble strategy, it is a condition that is typically unacceptable for commercial use of software. So in practice, it usually ends up hindering free sharing and reuse of code and ideas rather than encouraging it. As a consequence, no additional software bound by the GPL terms will be considered for inclusion into the OpenBSD base system.

For historical reasons, the OpenBSD base system still includes the following GPL-licensed components: the GNU compiler collection (GCC) with supporting binutils and libraries, GNU CVS, GNU texinfo, the mkhybrid file system creation tool, and the readline library. Replacement by equivalent, more freely licensed tools is a long-term desideratum.

NetBSD

Much of OpenBSD is originally based on and evolved from NetBSD, since some of the OpenBSD developers were involved in the NetBSD project. The general NetBSD license terms are compatible with the Berkeley license and permit such use. Material subject **only** to the general NetBSD license can generally be included in OpenBSD.

In the past, NetBSD has included material copyrighted by individuals who have imposed license conditions beyond that of the general NetBSD license, but granted the NetBSD Foundation license to distribute the material. Such material can not be included in OpenBSD as long as the conditions imposed are at odds with the OpenBSD license terms or releases from those terms are offered on a discriminatory basis.

FreeBSD

Most of FreeBSD is also based on Berkeley licensed material or includes copyright notices based on the Berkeley model. Such material can be included in OpenBSD, while those parts that are subject to GPL or various individual copyright terms that are at odds with the OpenBSD license can not be included in OpenBSD.

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X.Org

The X.Org Foundation maintains and distributes the X Window System under a modified MIT license, which is quite similar to the BSD license and additionally allows sublicensing. Under the name of Xenocara, the OpenBSD base system includes an improved and actively maintained version of the X.Org code.

Shareware, Charityware, Freeware, etc.

Most "shareware" copyright notices impose conditions for redistribution, use or visibility that are at conflict with the OpenBSD project goals. Review on a case-by-case basis is required as to whether the wording of the conditions is acceptable in terms of conditions being requested vs. demanded and whether the spirit of the conditions is compatible with goals of the OpenBSD project.

Public Domain

While material that is truly entered into the "public domain" can be included in OpenBSD, review is required on a case by case basis. Frequently the "public domain" assertion is made by someone who does not really hold all rights under copyright law to grant that status or there are a variety of conditions imposed on use. For a work to be truly in the "public domain" all rights are abandoned and the material is offered without restrictions.

In some jurisdictions, it is doubtful whether voluntarily placing one's own work into the public domain is legally possible. For that reason, to make any substantial body of code free, it is preferable to state the copyright and put it under an ISC or BSD license instead of attempting to release it into the public domain.

## A.6 loader(u-boot)

### A.6-1 GPL v2

 U-Boot is Free Software. It is copyrighted by Wolfgang Denk and

many others who contributed code (see the actual source code for

details). You can redistribute U-Boot and/or modify it under the

terms of version 2 of the GNU General Public License as published by

the Free Software Foundation. Most of it can also be distributed,

at your option, under any later version of the GNU General Public

License -- see individual files for exceptions.

 NOTE! This license does \*not\* cover the so-called "standalone"

applications that use U-Boot services by means of the jump table

provided by U-Boot exactly for this purpose - this is merely

considered normal use of U-Boot, and does \*not\* fall under the

heading of "derived work".

 The header files "include/image.h" and "include/asm-\*/u-boot.h"

define interfaces to U-Boot. Including these (unmodified) header

files in another file is considered normal use of U-Boot, and does

\*not\* fall under the heading of "derived work".

 Also note that the GPL below is copyrighted by the Free Software

Foundation, but the instance of code that it refers to (the U-Boot

source code) is copyrighted by me and others who actually wrote it.

-- Wolfgang Denk

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

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 Version 2, June 1991

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 To protect your rights, we need to make restrictions that forbid

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These restrictions translate to certain responsibilities for you if you

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 For example, if you distribute copies of such a program, whether

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 We protect your rights with two steps: (1) copyright the software, and

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 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

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 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

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These requirements apply to the modified work as a whole. If

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

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In addition, mere aggregation of another work not based on the Program

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 customarily used for software interchange; or,

 c) Accompany it with the information you received as to the offer

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The source code for a work means the preferred form of the work for

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## A.7 uCLibc

### A.7-1 LGPL v2.1

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 Version 2.1, February 1999

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 When we speak of free software, we are referring to freedom of use,

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 To protect your rights, we need to make restrictions that forbid

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you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library, whether gratis

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complete object files to the recipients, so that they can relink them

with the library after making changes to the library and recompiling

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 We protect your rights with a two-step method: (1) we copyright the

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 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

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 Finally, software patents pose a constant threat to the existence of

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 In other cases, permission to use a particular library in non-free

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 Although the Lesser General Public License is Less protective of the

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 The precise terms and conditions for copying, distribution and

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 A "library" means a collection of software functions and/or data

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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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straightforwardly into another language. (Hereinafter, translation is

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 "Source code" for a work means the preferred form of the work for

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 2. You may modify your copy or copies of the Library or any portion

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 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

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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

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In addition, mere aggregation of another work not based on the Library

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the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public

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 Once this change is made in a given copy, it is irreversible for

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subsequent copies and derivative works made from that copy.

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

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 4. You may copy and distribute the Library (or a portion or

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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.

 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

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 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

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facilities not covered by this License, and distribute such a combined

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## A.8 jansson

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## A.11 squash-tools

### A.11-1 GPL v2

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## A.12 collections-c

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---

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 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

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These requirements apply to the modified work as a whole. If

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