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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.

A license can only be considered fully permissive if it allows use by anyone for all the future without giving up any of their rights. If there are conditions that might terminate any rights in the future, or if you have to give up a right that you would otherwise have, even if exercising that right could reasonably be regarded as morally objectionable, the code is not free.

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.

Linux

Most of Linux is subject to GPL style licensing terms and therefore can not be included in OpenBSD. Individual components may be eligible, subject to the terms of the originator's copyright notices. Note that Linux "distributions" may also be subject to additional copyright claims of the distributing organization, either as a compilation or on material included that is not part of the Linux core.

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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When we speak of free software, we are referring to freedom, not

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have the freedom to distribute copies of free software (and charge for

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if you want it, that you can change the software or use pieces of it

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

anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you

distribute copies of the software, or if you modify it.

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

gratis or for a fee, you must give the recipients all the rights that

you have. You must make sure that they, too, receive or can get the

source code. And you must show them these terms so they know their

rights.

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

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Also, for each author's protection and ours, we want to make certain

that everyone understands that there is no warranty for this free

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Finally, any free program is threatened constantly by software

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refers to any such program or work, and a "work based on the Program"

means either the Program or any derivative work under copyright law:

that is to say, a work containing the Program or a portion of it,

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the term "modification".) Each licensee is addressed as "you".

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is covered only if its contents constitute a work based on the

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

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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

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,

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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 Program

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3. You may copy and distribute the Program (or a work based on it,

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b) Accompany it with a written offer, valid for at least three

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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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received the program in object code or executable form with such

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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

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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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as the successor of the GNU Library Public License, version 2, hence

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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

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

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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

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that what they have is not the original version, so that the original

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

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

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

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non-free programs enables many more people to use the whole GNU

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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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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

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Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of

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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

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and what the program that uses the Library does.

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

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all the notices that refer to this License and to the absence of any

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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 Library or any portion

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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

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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

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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

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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

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changes were used in the work (which must be distributed under

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

Library" must include any data and utility programs needed for

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## A.11 squash-tools

### A.11-1 GPL v2

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## A.12 collections-c

### A.12.1 LGPL v3.0

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

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c) If the modified program normally reads commands interactively

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does not normally print such an announcement, your work based on

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