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Project: **scriva/scrivabesrv**Branch: **mainline** (978cd76824b84767403eaeb24a8e5929add82447)

Created on 2025-07-29 07:47 UTC

Bill of components

Libraries (java)

aaeporch-cxfclient 2.0.0 (compile)

Apache-2.0

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aopalliance:aopalliance 1.0 (compile)

PUBDOM

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asm:asm 3.3.1 (compile)

BSD

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(registry)

axis 1.4 (compile)

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axis:axis-jaxrpc 1.4 (compile)

Apache-2.0

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cglib:cglib 2.2.2 (compile)

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com.fasterxml.jackson.core:jackson-annotations 2.9.9 (compile)

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com.fasterxml.jackson.core:jackson-core 2.9.9 (compile)

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com.fasterxml.jackson.core:jackson-databind 2.9.9 (compile)

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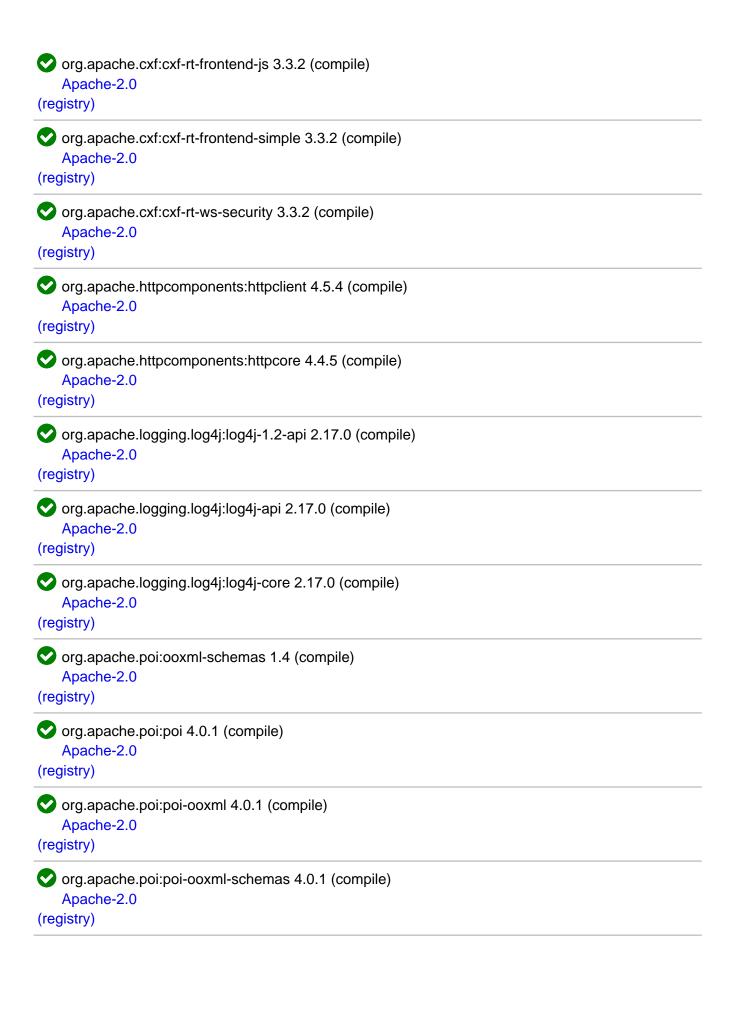
commons-collections:commons-collections 3.2.2 (compile) Apache-2.0 (registry) commons-discovery:commons-discovery 0.2 (compile) Apache-2.0 (registry) commons-httpclient:commons-httpclient 2.0.2 (compile) Apache-2.0 (registry) commons-io:commons-io 2.5 (compile) Apache-2.0 (registry) commons-logging:commons-logging 1.1.1 (compile) Apache-2.0 (registry) csi-apachesoap 1.4.6 (compile) Apache-2.0 (registry) csi-core 1.4.6 (compile) Apache-2.0 (registry) csi-ejb 1.4.6 (compile) Apache-2.0 (registry) csi-rmi 1.4.6 (compile) Apache-2.0 (registry) csi-stadapter 1.4.6 (compile) Apache-2.0 (registry) ejb 2.1 (compile) CDDL (registry)

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weblogic server 9.2 mp2 mon jun 25 01:32:01 edt 2007 952826 9.2.2.0 (compile) PROPRIETARY

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wsdl4j 1.6.3.redhat-1 (compile)
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xerces:xercesImpl 2.9.0 (compile) Apache-2.0

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Source code is the version of software (usually an application program or an operating system <>) as it is originally written (i.e., typed into a computer) by a human inplain text <> (i.e., human readable alpha <>numeric characters <>). Source code can be written in any of hundreds of programming languages, some of the most popular of which areC <>, C++ and Java.

Due to the extremely minimal restrictions of BSD-style licenses, software released under such licenses can be freely modified and used inproprietary <> (i.e., commercial) software for which the source code is kept secret.

It is possible for a product to be distributed under a BSD-style license and for some other license to apply as well. This was, in fact, the case with very early versions of BSD UNIX, which included both new code written at UCB and code from the original versions of UNIX written at Bell Labs.

BSD-style licenses have been very successful, and they are now widely used for a variety of software. Among the many products released under this class of licenses are all of the major modern descendants of the original BSD UNIX, i.e., FreeBSD, OpenBSD, NetBSD and Darwin (the foundation of the Mac OS X). BSD-licensed software is also commonly included inLinux <> distributions <> (i.e., versions) and has even been incorporated into some of the Microsoft Windows operating systems.

BSD Licenses Versus the GPL

The GPL <> (GNU <> General Public License) is by far the most widely used license forfree software <> (i.e., software whose source code is available at no cost for anyone to use for any purpose). The Linuxkernel <> (i.e., the core of the operating system) as well as much of the other software generally included in Linux distributions have been released under the terms of the GPL.

Although far fewer programs are released under BSD-style licenses, this class of licenses is disproportionately important because of the widespread use of BSD-licensed code in both free and proprietary operating systems.

Possibly the biggest difference between the GPL and BSD licenses is the fact that the former is acopyleft license and the latter is not. Copyleft is the application of copyright law to permit the free creation of derivative works but requiring that such works be redistributable under the same terms (i.e.,

the same license) as the original work.

Closely related to this is the fact that, in sharp contrast to the GPL, BSD-style licenses do not require that derivative works based on BSD-licensed software make the source code for such derivative works freely available. This allows the direct incorporation of code from open source projects (i.e., from BSD-licensed software) into closed source projects. The GPL, however, specifically states: "This General Public License does not permit incorporating your program into proprietary programs."

A third difference is that the GPL is a single, copyrighted (by the Free Software Foundation, Inc.) license with no variants. BSD-style licenses, in contrast, are commonly modified for the specific situation.

In many cases, the use of open source code can allow companies to develop products more quickly and with less expense than if they wrote them with entirely original code. The fact that derivative products of BSD-licensed software are not required to be open source can be very useful for developers who want to create commercial products from open source code but who want to keep their modifications and/or extensions secret. Interestingly, companies that initially develop closed source products based on BSD-licensed code tend to be more likely to eventually make their source code publicly available than are companies that develop products that do not incorporate code code.

The issue of which license provides greater freedom and does the most to promote the development of improved software is highly controversial. In spite of the seeming simplicity of the licenses, there are no simple answers.

One of the most controversial properties of the GPL is its viral nature. This means that once some useful modification or addition to a GPL licensed program has been released, the source code of the modified or extended program must likewise be made freely available. That is, the GPL is a mechanism that deprives developers of the freedom to make their source code secret at some future date, although the developer can still use such code in commercial products. Critics of the GPL claim that this diminishes or destroys the commercial value of software because others can produce products that incorporate the same code.

GPL advocates claim that although the GPL is contagious in theory, it is not necessarily so in practice. Rather, they assert, it merely places restrictions on the code's re-use, as do BSD-style licenses.

One thing about both the GPL and the BSD-style licenses for which there is widespread agreement is that both have problems. Neither is perfect, and perhaps no license can be perfect. There is also considerable agreement that there are benefits both to software developers and to society as a whole from the choice provided by the existence of a variety of types of free software licenses, including the GPL and BSD-style licenses.

The "Advertising Clause"

The original version of the BSD license contained the so called advertising clause, which stated that all advertising materials that mention features of or use of the software must display the acknowledgment: "This product includes software developed by the University of California, Berkeley and its contributors."

One of the problems with this clause arose from the fact that people who made changes to the source code often wanted to have their names added to the acknowledgment. This could easily result in large and cumbersome acknowledgments for products with numerous contributors and for software distributions consisting of multiple individual projects.

A second problem was legal incompatibility with the terms of the GPL. This is because the GPL prohibits the addition of restrictions beyond those that it already imposes. Thus it was necessary to segregate GPL and BSD-licensed software within projects.

Initially, the "obnoxious BSD advertising clause," as it was referred to by GPL advocates, was used only for the BSD UNIX license. That did not cause any major problems because it was only necessary to include a single sentence of acknowledgment in any advertisement.

However, the fact that other software developers did not copy the clause verbatim, but replaced the phrase "University of California" with the name of their own organization or persons involved in it, resulted in a proliferation of slightly different licenses and a consequently serious problem when many

such programs were assembled to form a larger work or an operating system. For example, if an operating system or other program required fifty slightly different acknowledgment sentences, each naming a different developer or group of developers, suchadvertising alone might require a full page. Not only would this be very tedious reading, but it could also be costly.

In June 1999, after two years of discussion, the Office of Technology Licensing at UCB finally proclaimed: "Effective immediately, licensees and distributors are no longer required to include the acknowledgment within advertising materials. Accordingly, the foregoing paragraph of those BSD Unix files containing it is hereby deleted in its entirety."

This was clearly very useful. However, it could not eliminate the legacy of the advertising clause, as similar clauses still exist in the licenses of many programs that followed the old BSD license; only the developers of such packages can change them.

Examples of BSD-Style Licenses

Below are three examples of BSD-style licenses: (1) the BSD license as it is used by the FreeBSD operating system, (2) a BSD license as it is used bySudo (a free utility program forUnix-like <> operating systems) and (3) a template of a BSD-style license that can be applied to any appropriate project:

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<>

Terms

[edit <>]

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History

[edit <>

The previous software license <> used by Sun <> for its open source <> projects was theSun Public License <> (SPL), also derived from the Mozilla Public License <>. The CDDL license is considered by Sun <> (now Oracle <>) to beSPL <> version 2.[9] <>

The CDDL was developed by a Sun Microsystems <> team (among them Solaris <> kernel engineer Andrew Tucker[10] <>[11] <> and Claire Giordano[12] <>), based on theMPL <> version 1.1. On December 1, 2004 the CDDL was submitted for approval to theOpen Source Initiative <>[12] <> and was approved as an open source license <> in mid January 2005. The second CDDL proposal, submitted in early January 2005, includes some corrections that prevent the CDDL from being

in conflict with European Copyright law and to allow single developers to use the CDDL for their work.

In 2006, in the first draft of the OSI's license proliferation <> committee report, the CDDL is one of nine preferred licenses listed as popular, widely used, or with strong communities.[13] <>

While the Free Software Foundation <> (FSF) also considered the CDDL a free software <> license, they saw some incompatibilities <> with their GNU General Public License <> (GPL).[1] <>

GPL compatibility

[edit <>]

The question of whether and when both licenses are incompatible <> sparked debates in the free software domain in 2004 to 2006.[14] <> [15] <> For instance, the FSF considered the CDDL incompatible to their GPL license, without going into detail until 2016.[16] <>

CDDL is one of several Open Source Licenses <> which are incompatible with GPL <>. This characteristic was inherited from the MPL 1.1 (fixed with the MPL 2.0 according to the FSF[1] <>) and results from a complex interaction of several clauses;[14] <>[17] <> the root of the problem being GPL virality <>, similar to other cases of GPL incompatibility.[18] <> Some people argue that Sun (or the Sun engineer) as creator of the license made the CDDL intentionally GPL incompatible.[14] <> According to Danese Cooper <> one of the reasons for basing the CDDL on the Mozilla license was that the Mozilla license is GPL-incompatible <>. Cooper stated, at the 6th annual Debian conference <>, that the engineers who had written the Solaris kernel requested that the license of OpenSolaris be GPL-incompatible.[19] <>

Mozilla was selected partially because it is GPL incompatible. That was part of the design when they released OpenSolaris. ... the engineers who wrote Solaris ... had some biases about how it should be released, and you have to respect that.

Simon Phipps <> (Sun's Chief Open Source Officer at the time), who had introduced Cooper as "the one who actually wrote the CDDL",[20] <> did not immediately comment, but later in the same video, he says, referring back to the license issue, "I actually disagree with Danese to some degree",[21] <> while describing the strong preference among the engineers who wrote the code for a BSD-like license, which was in conflict with Sun's preference for somethingcopyleft <>, and that waiting for legal clearance to release some parts of the code under the then unreleased GNU GPL v3 would have taken several years, and would probably also have involved mass resignations from engineers (unhappy with either the delay, the GPL, or boththis is not clear from the video).

Later, in September 2006, Phipps rejected Cooper's assertion in even stronger terms.[22] <> Similarly, Bryan Cantrill <>, who was at Sun at that time and involved in the release of CDDL licensed software stated in 2015 that he and his colleagues expected in 2006 the fast emergence of CDDL licensed software into the Linux ecosystem and the CDDL being not an obstacle.[23] <>

cdrtools controversy

[edit <>]

The GPL compatibility question was also the source of a controversy behind a partial relicensing ofcdrtools <> to the CDDL which had been previously all GPL. In 2006, the Debian <> project declared the cdrtools legally undistributable because the build system <> was licensed under the CDDL.[24] <>

The author, Jrg Schilling, claimed that smake <> is an independent project and does not violate the GPLv3 <>.[25] <> Schilling also argued that even though the GPL requires all scripts required to build the work to be licensed freely, they do not necessarily have to be under the GPL.[26] <>[27] <>[page needed <>] Thus not causing an incompatibility that violates the license <>.

He also argued that in "combined works" (in contrast to "derived works <>") GPL and CDDL licensed code is compatible.[28] <> [29] <>

Red Hat <>'s attorneys have prevented cdrtools from being in Fedora <> or Red Hat Enterprise Linux <>, arguing that Schilling has an "unorthodox" view of copyright law that isn't shared by their legal counsel or the Free Software Foundation.[30] <>

ZFS in the Linux kernel

[edit <>]

In 2015, the CDDL to GPL compatibility question reemerged when Ubuntu <>

announced inclusion of OpenZFS <> by default.[31] <>

In 2016 Ubuntu announced that a legal review resulted in the conclusion that it is legally acceptable to use ZFS as binarykernel module <> in Linux. (As opposed to building it into the kernel image itself.)[32] <>

Others followed Ubuntu's conclusion, for instance James E. J. Bottomley argued there cannot be "a convincing theory of harm" developed, making it impossible to bring the case to court.[33] <>

Eben Moglen <>>, co-author of the GPLv3 <> and founder of the SFLC <>>, argued that while the letter of the GPL might be violated, the spirit of both licenses is unharmed, which would be the relevant aspect in court.[34] <>

The SFLC mentioned also that a precedent exists with the Andrew File System <> 's kernel module, which is not considered a derivative work of the kernel by the kernel developers.[35] <>[36] <>

On the other hand, Bradley M. Kuhn <> and attorney Karen M. Sandler <> from the Software Freedom Conservancy <>[37] <> argued that Ubuntu would violate both licenses, as a binary ZFS module would be a derivative work of the kernel.[38] <> In April 2016, the Ubuntu <> 16.04 LTS <> release included the CDDL-licensed ZFS on Linux <>.[citation needed <>]

Adoption

[edit <>]

Example projects released under CDDL:

- * OpenSolaris <> (including DTrace <>, initially released alone, and ZFS <>)
- * illumos <> (as OpenSolaris OS/Net, continuation project) and illumos distributions <>[39] <>
- * OpenZFS <> multi platform open source volume manager and file system
- * NetBeans <> IDE and RCP
- * GlassFish <>
- * JWSDP <>
- * Project DReaM <>
- * cdrtools <>
- * OpenDJ <>

See also

[edit <>]

- * Free and open-source software portal <>
- * Dual-licensing <>
- * GNAT Modified General Public License <>
- * List of software licenses <>

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- * JavaStation <>
- * Java Workstation <>
- * Ray <>
- * Cobalt Qube <>
- * Cobalt RaQ <>

Processors

- * SPARC <>
- * MB86900 <>
- * microSPARC <>
- * SuperSPARC <>
- * UltraSPARC <>
- * UltraSPARC II <>
- * UltraSPARC IIe
- * UltraSPARC IIi
- * Gemini
- * UltraSPARC III <>
- * UltraSPARC III Cu
- * UltraSPARC IIIi
- * UltraSPARC IV <>
- * UltraSPARC T1 <>
- * UltraSPARC T2 <>
- * SPARC T3 <>
- * SPARC T4 <>
- * SPARC T5 <>
- * Rock <>
- * MAJC <>
- * Sun4d <>
- * SBus <>
- * Fireplane <>
- * LOM port <>
- * MBus <>
- * Modular Datacenter <>
- * Neptune <>
- * System Service Processor <>
- * SPARC T series <>
- * SPOT <>
- * Ultra Port Architecture <>
- * Visual Instruction Set <> <>

Software

- * TOPS <>
- * SunOS <>
- * Solaris <>
- * NIS <>
- * NIS+ <>
- * NFS <>
- * ZFS <> * ZFS+ <>
- * SunView <>
- * SunView < * NeWS <>
- * OpenWindows <>
- * Java Desktop System <>
- * Studio <>
- * Java <>
- * StarOffice <>
- * iPlanet <>
- * Java System <>
- * Sun Secure Global Desktop <>
- * MySQL <>
- * xVM <>
- * GlassFish <>
- * VirtualBox <>

Storage

- * StorageTek 5800 System <>
- * StorageTek SL8500 <>
- * Open Storage <>
- * QFS <>
- * ZFS <>

Performance

- * Cloud <>
- * Constellation System <>

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[edit <>]

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Origin

[edit <>]

Until the late 1960s, computersespecially large and expensive mainframe computers <>, machines in specially air-conditioned computer roomswere usually leased <> to customers rather than sold <>.[3] <>[4] <> Service and all software available were usually supplied by manufacturers without separate charge until 1969. Computer vendors usually provided the source code for installed software to customers.[citation needed <>] Customers who developed software often made it available to the public without charge.[5] <> Closed source means computer programs whose source code is not published except to licensees. It is available to be modified only by the organization that developed it and those licensed to use the software.

In 1969, IBM, which had antitrust <> lawsuits pending against it, led an industry change bystarting to charge separately for mainframe software <>[6] <>[7] <> and services, by unbundling hardware and software.[8] <>

Bill Gates <>' "Open Letter to Hobbyists <>" in 1976 decried computer hobbyists' rampantcopyright infringement <> of software, particularly Microsoft'sAltair BASIC <> interpreter, and asserted that their unauthorized use hindered his ability to produce quality software. But the legal status of software copyright <>, especially for object code <>, was not clear until the 1983 appeals court ruling inApple Computer, Inc. v. Franklin Computer Corp <>.[9] <>[10] <>[11] <>

According to Brewster Kahle <> the legal characteristic of software changed also due to the U.S.Copyright Act of 1976 <>.[12] <>

Starting in February 1983 IBM adopted an "object-code <>-only" model for a growing list of their software and stopped shipping much of the source code,[13] <>[14] <> even to licensees.

In 1983, binary software became copyrightable in the United States <> as well by the Apple vs. Franklin <> law decision,[15] <> before which only source code was copyrightable.[16] <> Additionally, the growing availability of millions of computers based on the same microprocessor architecture created for the first time an unfragmented and big enough market for binary distributed software.[16]

Licenses

[edit <>] This section is an excerpt from Software license Proprietary software licenses <>.[edit

https://en.wikipedia.org/w/index.php?title=Software_license&action=edit#Proprietary_software_licenses

] <>A brief, written-out beta test <> software license issued by Macromedia <> in 1995

The tendency to license proprietary software, rather than sell it, dates from the time period before the existence, then the scope of software copyright protection wasclear <>. These licenses have continued in use after software copyright was recognized in the courts, and are considered to grant the company extra protection compared to copyright law.[17] <> According to United States federal law <>, a company can restrict the parties to which it sells but it cannot prevent a buyer from reselling the product. Software licensing agreements usually prohibit resale, enabling the company to maximize revenue.[18] <>

Traditionally, software was distributed in the form of binary object code <> that could not be understood or modified by the user,[19] <> but could be downloaded and run. The user bought a perpetual license to use a particular version of the software.[20] <> Software as service <> (SaaS) vendorswho have the majoritymarket share <> in application software <> as of 2023[update] <[21] <> rarely offer perpetual licenses.[22] <> SaaS licenses are usually temporary and charged on a pay-per-usage or subscription basis,[23] <> although other revenue models such asfreemium <> are also used.[24] <> For customers, the advantages of temporary licenses include reduced upfront cost, increased flexibility, and lower overall cost compared to a perpetual license.[20] <> In some cases, the steep one-time cost demanded by sellers of traditional software were out of the reach ofsmaller businesses <>, but pay-per-use SaaS models makes the software affordable.[25] <>

Mixed-source software

[edit <>]

Software distributions considered as proprietary may in fact incorporate a "mixed source" model including both free and non-free software in the same distribution. [26] <> Most if not all so-called proprietary UNIX <> distributions are mixed source software, bundling open-source components like BIND <>, Sendmail <>, X Window System <>, DHCP <>, and others along with a purely proprietarykernel <> and system utilities. [27] <> [28] <>

Multi-licensing

[edit <>] Main article: Multi-licensing <>

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Legal basis

[edit <>] Further information: Software law <>, Software copyright <>, Software patent <>, and End-user license agreement <> Most of the software is covered by copyright <> which, along with contract law <>, patents <>, and trade secrets <>, provides legal basis for its owner to establish exclusive rights.[33] <>

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[edit <>]

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[edit <>]

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- * Windows XP <> can be installed on one computer, and limits the number of network file sharing connections to 10.[40] <> The Home Edition <> disables features present in Windows XP Professional.
- * Traditionally, Adobe <> licenses are limited to one user, but allow the user to install a second copy on a home computer or laptop.[41] <> This is no longer true with the switching to Creative Cloud.
- * iWork '09 <>, Apple's productivity suite, is available in a five-user family pack, for use on up to five computers in a household.[42] <> Inspection and modification of source code [edit <>] See also: Open-source software <> and Crippleware <> Vendors typically distribute proprietary software in compiled <> form, usually themachine language <> understood by the computer's central processing unit <>. They typically retain thesource code <>, or human-readable version of the software, often written in ahigher level programming language <>.[43] <> This scheme is often referred to as closed source.[44] <>

While most proprietary software is distributed without the source code, some vendors distribute the source code or otherwise make it available to customers. For example, users who have purchased a license for the Internet forum software vBulletin <> can modify the source for their own site but cannot redistribute it. This is true for many web applications, which must be in source code form when being run by a web server. The source code is covered by anon-disclosure agreement <> or a license that allows, for example, study and modification, but not redistribution.[45] <> The text-based email client Pine <> and certain implementations of Secure Shell <> are distributed with proprietary licenses that make the source code available.[citation needed <>]Some licenses for proprietary software allow distributing changes to the source code, but only to others licensed for the product, and some[46] <> of those modifications are eventually picked up by the vendor.

Some governments fear that proprietary software may include defects <> or malicious features <> which would compromise sensitive information. In 2003 Microsoft established a Government Security Program (GSP) to allow governments to view source code and Microsoft security documentation, of which the Chinese government <> was an early participant. [47] <> [48] <> The program is part of Microsoft's broader Shared Source Initiative <> which provides source code access for some products. The Reference Source License (Ms-RSL) and Limited Public License (Ms-LPL) are proprietary software licenses where the source code ismade available <>.

Governments have also been accused of adding such malware to software themselves. According to documents released byEdward Snowden <>, the NSA <> has used covert partnerships with software companies to make commercial encryption software exploitable to eavesdropping, or to insertbackdoors <>.[49] <>[50] <>

Software vendors sometimes use obfuscated code <> to impede users who would reverse engineer <> the software.[51] <> This is particularly common with certainprogramming languages <>.[citation needed <>] For example, the bytecode <> for programs written in Java <> can be easily decompiled <> to somewhat usable code,[citation needed <>] and the source code for programs written in scripting languages <> such as PHP <> or JavaScript <> is available at run time <>.[52] <>

Redistribution

[edit <>] Further information: Shareware <> See also: Freely redistributable software <>

Proprietary software vendors can prohibit the users from sharing the software with others. Another unique license is required for another party to use the software.

In the case of proprietary software with source code available, the vendor may also prohibit customers from distributing their modifications to the source code

Shareware <> is closed-source software whose owner encourages redistribution at no cost, but which the user sometimes must pay to use after a trial period. The fee usually allows use by a single user or computer. In some cases, software features are restricted during or after the trial period, a practice sometimes calledcrippleware <>.

Interoperability with software and hardware

[edit <>] Further information: Interoperability Software <>

Proprietary file formats and protocols

[edit <>] Further information: Proprietary format <> and Proprietary protocol

<>

Proprietary software often[citation needed <>] stores some of its data in file formats that are incompatible <> with other software, and may also communicate using protocols <> which are incompatible. Such formats and protocols may be restricted astrade secrets <> or subject to patents <>.[citation needed <>]

Proprietary APIs

[edit <>]

A proprietary application programming interface <> (API) is a software library <> interface "specific to one device or, more likely to a number of devices within a particular manufacturer's product range."[53] <> The motivation for using a proprietary API can be vendor lock-in <> or because standard APIs do not support the device's functionality.[53] <>

The European Commission <>>, in its March 24, 2004, decision on Microsoft's business practices,[54] <> quotes, in paragraph 463, Microsoft general manager forC++ <> development Aaron Contorer as stating in a February 21, 1997, internal Microsoft memo drafted forBill Gates <>:

The Windows API <> is so broad, so deep, and so functional that most ISVs would be crazy not to use it. And it is so deeply embedded in the source code of many Windows apps that there is a huge switching cost to using a different operating system instead.

Early versions of the iPhone SDK <> were covered by a non-disclosure agreement <>. The agreement forbade independent developers from discussing the content of the interfaces. Apple discontinued the NDA in October 2008.[55] <>

Vendor lock-in

[edit <>] Further information: Vendor lock-in <>

Any dependency on the future versions and upgrades for a proprietary software package can createvendor lock-in, entrenching a monopoly position.[56] <>

Software limited to certain hardware configurations

[edit <>

Proprietary software may also have licensing terms that limit the usage of that software to a specific set of hardware. Apple <> has such a licensing model formacOS <>, an operating system which is limited to Apple hardware, both by licensing and various design decisions. This licensing model has been affirmed by the United States Court of Appeals for the Ninth Circuit <>.[57] <>

Abandonment by proprietors

[edit <>] Main article: Abandonware <>

Proprietary software which is no longer marketed, supported or sold by its owner is calledabandonware <>, the digital form of orphaned works <>. If the proprietor of a software package should cease to exist, or decide to cease or limit production or support for a proprietary software package, recipients and users of the package may have no recourse if problems are found with the software. Proprietors can fail to improve and support software because of business problems.[58] <> Support for older or existing versions of a software package may be ended to force users to upgrade and pay for newer versions[59] <> (planned obsolescence <>). Sometimes another vendor or a software's community themselves canprovide support <> for the software, or the users can migrate to either competing systems with longer support life cycles or toFOSS <>-based systems.[60] <>

Some proprietary software is released by their owner at end-of-life <> as open-source or source available <> software, often to prevent the software from

becoming unsupported and unavailableabandonware <>.[61] <>[62] <>[63] <> 3D Realms <> and id Software <> are famous for the practice of releasing closed source software into theopen source <>.[further explanation needed <>] Some of those kinds are free-of-charge downloads (freeware <>), some are still commercially sold (e.g.Arx Fatalis <>).[further explanation needed <>] More examples of formerly closed-source software in theList of commercial software with available source code <> and List of commercial video games with available source code <>.

Pricing and economics

[edit <>] See also: Commercial software <>

Proprietary software is not synonymous with commercial software <>,[64] <>[65] <> although the two terms are sometimes used synonymously in articles about free software.[66] <>[67] <> Proprietary software can be distributed at no cost or for a fee, andfree software <> can be distributed at no cost or for a fee.[68] <> The difference is that whether proprietary software can be distributed, and what the fee would be, is at the proprietor's discretion. With free software, anyone who has a copy can decide whether, and how much, to charge for a copy or related services.[69] <>

Proprietary software that comes for no cost is called freeware <>.

Proponents of commercial proprietary software argue that requiring users to pay for software as a product increases funding or time available for the research and development <> of software. For example, Microsoft <> says that per-copy fees maximize the profitability of software development.[70] <>

Proprietary software generally creates greater commercial activity over free software, especially in regard to market revenues.[71] <> Proprietary software is often sold with a license that gives the end user right to use the software.

Technical support for proprietary software can often be provided only by employees of the company that created the program and such service is included with the software. However, a dedicated technical support system increases the cost of software maintenance, which has an impact on its price.[72] <>

See also

[edit <>]

- * Business software <>
- * Commercial off-the-shelf <>
- * Comparison of open-source and closed-source software <>
- * Proprietary hardware <>
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- * Enshittification <>

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lock-in, or just lock-in, is the situation in which customers are dependent on
a single manufacturer or supplier for some product [...] This dependency is
typically a result of standards that are controlled by the vendor [...] It can
grant the vendor some extent of monopoly power [...] The best way for an
organization to avoid becoming a victim of vendor lock-in is to use products
that conform to free, industry-wide standards. Free standards are those that
can be used by anyone and are not controlled by a single company. In the case
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