2 The creation of Linux 3 Naming 4 Linux under the GNU GPL 5 GNU/Linux naming controversy 6 Official mascot 7 New development 7.1 Community 7.2 Open Source Development Lab and Linux Foundation 7.3 Companies 7.4 Desktop environments 8 "Linux is obsolete" 9 Competition from Microsoft 10 SCO 11 Trademark rights 12 Chronology 13 See also 14 References 15 External links Events leading to creation After AT&T had dropped out of the Multics project, the Unix operating system was conceived and implemented by Ken Thompson and Dennis Ritchie (both of AT&T Bell Laboratories) in 1969 and first released in 1970. Later they rewrote it in a new programming language, C, to make it portable. The availability and portability of Unix caused it to be widely adopted, copied and modified by academic institutions and businesses. In 1977, the Berkeley Software Distribution (BSD) was developed by the Computer Systems Research Group (CSRG) from UC Berkeley, based on the 6th edition of Unix from AT&T. Since BSD contained Unix code that AT&T owned, AT&T filed a lawsuit (USL v. BSDi) in the early 1990s against the University of California. This strongly limited the development and adoption of BSD. $^{[4][5]}$ Ken Thompson and Dennis In 1983, Richard Stallman started the GNU project with the goal of creating a free UNIX-like operating system. $^{[6]}$ As part of this work, Ritchie he wrote the GNU General Public License (GPL). By the early 1990s, there was almost enough available software to create a full operating system. However, the GNU kernel, called Hurd, failed to attract enough development effort, leaving GNU incomplete. In 1985, Intel released the 80386, the first x86 microprocessor with a 32-bit instruction set and a memory management unit with paging. $^{[7]}$ In 1986, Maurice J. Bach, of AT&T Bell Labs, published The Design of the UNIX Operating System. [8] This definitive description principally covered the System V Release 2 kernel, with some new features from Release 3 and BSD. In 1987, MINIX, a Unix-like system intended for academic use, was released by Andrew S. Tanenbaum to exemplify the principles conveyed in his textbook, Operating Systems: Design and Implementation. While source code for the system was available, modification and redistribution were restricted. In addition, MINIX's 16-bit design was not well adapted to the 32-bit features of the increasingly cheap and popular Intel 386 architecture for personal computers. In the early nineties a

The history of Linux began in 1991 with the commencement of a personal project by Finnish student Linus Torvalds to create a new free operating system kernel. Since then, the resulting Linux kernel has been marked by constant growth throughout its history. Since the initial release of its source code in 1991, it has grown from a small number of C files under a license prohibiting commercial distribution to the 4.2.3 version in 2015 with more than 18 million lines of source code under

History of Linux

From Wikipedia, the free encyclopedia

Contents

the GNU General Public License v2.[1](p7)[2][3]

1 Events leading to creation

commercial UNIX operating system for Intel 386 PCs was too expensive for private users. [9] These factors and the lack of a widely adopted, free kernel provided the impetus for Torvalds' starting his project. He has stated that if either the GNU Hurd or 386BSD kernels had been available at the time, he likely would not have written his own. [10][11] The creation of Linux In 1991, in Helsinki, Linus Torvalds began a project that later became the Linux kernel. He wrote the program specifically for the hardware he was using and independent of an operating system because he wanted to use the functions of his new PC with an 80386 processor. Development was done on MINIX using the GNU C compiler. The GNU C Compiler is still the main choice for compiling Linux today. The code however, can be built with other compilers, such as the Intel C Compiler. As Torvalds wrote in his book *Just for Fun*, [12] he eventually ended up writing an operating system kernel. On 25 August 1991, he (at age 21) announced this system in a Usenet posting to the newsgroup "comp.os.minix.": $^{[13]}$ Hello everybody out there using minix -I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones. This has been brewing since april, and is starting to get ready. I'd like any feedback on things people like/dislike in minix, as my OS resembles it somewhat (same physical layout of the file-system (due to practical reasons) among other things). I've currently ported bash(1.08) and gcc(1.40), and things seem to work. This implies that I'll get something practical within a few months, and I'd like to know what features most people would want. Any suggestions are welcome, but I won't promise I'll implement them :-) Linus (torvalds@kruuna.helsinki.fi) PS. Yes - it's free of any minix code, and it has a multi-threaded fs. It is NOT portable (uses 386 task switching etc), and it

Linus Torvalds in 2002 probably never will support anything other than AT-harddisks, as that's all I have :-(. — Linus Torvalds^[14]

Naming Linus Torvalds had wanted to call his invention Freax, a portmanteau of "free", "freak", and "x" (as an allusion to Unix). During the start of his work on the system, he stored the files under the name "Freax" for about half of a year. Torvalds had already considered the name "Linux," but initially dismissed it as too egotistical. [12] In order to facilitate development, the files were uploaded to the FTP server (ftp.funet.fi) of FUNET in September 1991. Ari Lemmke, Torvalds' coworker at the Helsinki University of Technology (HUT) who was one of the volunteer administrators for the FTP server at the time, did not think that "Freax" was a good name. So, he named the project "Linux" on the server without consulting Torvalds.^[12] Later, however, Torvalds consented to "Linux". To demonstrate how the word "Linux" should be pronounced ([ˈliːneks]), Torvalds included an audio guide 🐗 listen) with the kernel source code.^[15] Floppy discs holding a very Linux under the GNU GPL Torvalds first published the Linux kernel under its own licence, which had a restriction on commercial activity. first release of the Linux kernel, Linux 0.01, included a binary of GNU's Bash shell. $^{[16]}$ In the "Notes for linux release 0.01", Torvalds lists the GNU software that is required to run Linux: $^{[16]}$

early version of Linux The software to use with the kernel was software developed as part of the GNU project licensed under the GNU General Public License, a free software license. The Sadly, a kernel by itself gets you nowhere. To get a working system you need a shell, compilers, a library etc. These are separate parts and may be under a stricter (or even looser) copyright. Most of the tools used with linux are GNU software and are under the GNU copyleft. These tools aren't in the distribution - ask me (or GNU) for more info.[16] In 1992, he suggested releasing the kernel under the GNU General Public License. He first announced this decision in the release notes of version 0.12. [17] In the middle of December 1992 he published version 0.99 using the GNU GPL.^[18] Linux and GNU developers worked to integrate GNU components with Linux to make a fully functional and free operating system. $^{[19]}$ Torvalds has stated, "making Linux GPL'd was definitely the best thing I ever did." $^{[20]}$ Around 2000 Torvalds clarified that the used license for the linux kernel is exactly the GPLv2, without the common "or later clause". [2][3] linux kernel.^{[21][22][23]} **GNU/Linux naming controversy**

In 2007, after years of draft discussions, the GPLv3 was released and Torvalds and the majority of kernel developers decided against adopting the new license for the The designation "Linux" was initially used by Torvalds only for the Linux kernel. The kernel was, however, frequently used together with other software, especially that of the GNU project. This quickly became the most popular adoption of GNU software. In June 1994 in GNU's bulletin, Linux was referred to as a "free UNIX" clone", and the Debian project began calling its product Debian GNU/Linux. In May 1996, Richard Stallman published the editor Emacs 19.31, in which the type of

system was renamed from Linux to Lignux. This spelling was intended to refer specifically to the combination of GNU and Linux, but this was soon abandoned in favor of "GNU/Linux".^[24] This name garnered varying reactions. The GNU and Debian projects use the name, although most people simply use the term "Linux" to refer to the combination.[25] Official mascot Torvalds announced in 1996 that there would be a mascot for Linux, a penguin. This was due to the fact when they were about to select the mascot,

Torvalds did mention he was bitten by a little penguin (Eudyptula minor) on a visit to the National Zoo & Aquarium in Canberra, Australia. Larry Ewing provided the original draft of today's well known mascot based on this description. The name Tux was suggested by James Hughes as derivative of *Torvalds' UniX*.[12] New development Community The largest part of the work on Linux is performed by the community: the thousands of programmers around the world that use Linux and send their suggested improvements to the maintainers. Various companies have also helped not only with the development of the kernels, but also with the writing of the body of auxiliary software, which is distributed with Linux. As of February 2015, over 80% of Linux kernel developers are paid. [1](p11) It is released both by organized projects such as Debian, and by projects connected directly with companies such as Fedora and openSUSE. The members of the

The Open Source Development Lab (OSDL) was created in the year 2000, and is an independent nonprofit organization which pursues the goal of optimizing Linux for employment in data centers and in the carrier range. It served as sponsored working premises for Linus Torvalds and also for Andrew Morton (until the middle of

respective projects meet at various conferences and fairs, in order to exchange ideas. One of the largest of these fairs is the LinuxTag in Germany (currently in Berlin), where about 10,000 people assemble annually, in order to discuss Linux and the projects associated with it. Open Source Development Lab and Linux Foundation 2006 when Morton transferred to Google). Torvalds worked full-time on behalf of OSDL, developing the Linux kernels. On 22 January 2007, OSDL and the Free Standards Group merged to form The Linux Foundation, narrowing their respective focuses to that of promoting GNU/Linux in competition with Microsoft Windows. $^{[26][27]}$ As of 2015, Torvalds remains with the Linux Foundation as a Fellow. $^{[28]}$ Companies

Despite being freely available, companies profit from Linux. These companies, many of which are also members of the Linux Foundation, invest substantial resources into the advancement and development of Linux, in order to make it suited for various application areas. This includes hardware donations for driver developers, cash donations for people who develop Linux software, and the employment of Linux programmers at the company. Some examples are Dell, IBM and Hewlett-Packard, which validate, use and sell Linux on their own servers, and Red Hat and SUSE, which maintain their own enterprise distributions. Likewise, Digia supports Linux by

the development and LGPL licensing of Qt, which makes the development of KDE possible, and by employing some of the X and KDE developers. Desktop environments KDE was the first advanced desktop environment, but it was controversial due to the then-proprietary Qt toolkit used.[29] GNOME was developed as an alternative due to licensing questions.^[29] The two use a different underlying toolkit and thus involve different programming, and are sponsored by two different groups, German nonprofit KDE e.V. and the United States nonprofit GNOME Foundation.

As of April 2007, one journalist estimated that KDE had 65% of market share versus 26% for GNOME. [29] In January 2008, KDE 4 was released prematurely with bugs, driving some users to GNOME.^[30] GNOME 3, released in April 2011, was called an "unholy mess" by Linus Torvalds due to its controversial design changes.^[31] Dissatisfaction with GNOME 3 led to a fork, Cinnamon, which is developed primarily by Linux Mint developer Clement LeFebvre. This restores the more traditional

desktop environment with marginal improvements. The relatively well-funded distribution, Ubuntu, designed (and released in June 2011) another user interface called Unity which is radically different from the conventional desktop environment and has been criticized as having various flaws^[32] and lacking configurability. [33] The motivation was a single desktop environment

for desktops and tablets, although as of November 2012 Unity has yet to be used widely in tablets. However, the smartphone and tablet version of Ubuntu and its Unity interface was unveiled by Canonical Ltd in January 2013. "Linux is obsolete" In 1992, Andrew S. Tanenbaum, recognized computer scientist and author of the Minix microkernel system, wrote a Usenet article on the newsgroup comp.os.minix with the title "Linux is obsolete",[34] which marked the beginning of a famous debate about the structure of the then-recent Linux kernel. Among the most significant criticisms were that: ■ The kernel was monolithic and thus old-fashioned.

• The lack of portability, due to the use of exclusive features of the Intel 386 processor. "Writing a new operating system that is closely tied to any particular piece of hardware, especially a weird one like the Intel line, is basically wrong."[35] ■ There was no strict control of the source code by any individual person. [36] • Linux employed a set of features which were useless (Tanenbaum believed that multithreaded file systems were simply a "performance hack"). [37] Tanenbaum's prediction that Linux would become outdated within a few years and replaced by GNU Hurd (which he considered to be more modern) proved incorrect. Linux has been ported to all major platforms and its open development model has led to an exemplary pace of development. In contrast, GNU Hurd has not yet reached the level of stability that would allow it to be used on a production server. [38] His dismissal of the Intel line of 386 processors as 'weird' has also proven shortsighted, as the x86 series of processors and the Intel Corporation would later become near ubiquitous in personal computers and servers. In his unpublished book Samizdat, Kenneth Brown claims that Torvalds illegally copied code from MINIX. In May 2004, these claims were refuted by Tanenbaum, the

author of MINIX:[39] [Brown] wanted to go on about the ownership issue, but he was also trying to avoid telling me what his real purpose was, so he didn't phrase his questions very well. Finally he asked me if I thought Linus wrote Linux. I said that to the best of my knowledge, Linus wrote the whole kernel himself, but after it was released, other people began improving the kernel, which was very primitive initially, and adding new software to the system--essentially the same development model as MINIX. Then he began to focus on this, with questions like: "Didn't he steal pieces of MINIX without permission." I told him that MINIX had clearly had a huge influence on Linux in many ways, from the layout of the file system to the names in the source tree, but I didn't think Linus had used any of my code. The book's claims, methodology and references were seriously questioned and in the end it was never released and was delisted from the distributor's site. Competition from Microsoft

Although Torvalds has said that Microsoft's feeling threatened by Linux in the past was of no consequence to him, the Microsoft and Linux camps had a number of

Competition entered a new phase in the beginning of 2004, when Microsoft published results from customer case studies evaluating the use of Windows vs. Linux under the name "Get the Facts" on its own web page. Based on inquiries, research analysts, and some Microsoft sponsored investigations, the case studies claimed

In response, commercial Linux distributors produced their own studies, surveys and testimonials to counter Microsoft's campaign. Novell's web-based campaign at

deployment (particularly in light of the SCO v IBM case). Novell particularly referenced the Microsoft studies in many points. IBM also published a series of studies under the title "The Linux at IBM competitive advantage" to again parry Microsoft's campaign. Red Hat had a campaign called "Truth Happens" aimed at letting the

agreement that customers of either Novell or Microsoft may not be sued by the other company for patent infringement. This patent protection was also expanded to

In July 2009, Microsoft submitted 22,000 lines of source code to the Linux kernel under the GPLV2 license, which were subsequently accepted. Although this has been

decision was not altogether altruistic, as it promised to lead to significant competitive advantages for Microsoft and avoided legal action against Microsoft. Microsoft

the end of 2004 was entitled "Unbending the truth" and sought to outline the advantages as well as dispelling the widely publicized legal liabilities of Linux

In the autumn of 2006, Novell and Microsoft announced an agreement to co-operate on software interoperability and patent protection.^[41] This included an

referred to as "a historic move" and as a possible bellwether of an improvement in Microsoft's corporate attitudes toward Linux and open-source software, the

was actually compelled to make the code contribution when Vyatta principal engineer and Linux contributor Stephen Hemminger discovered that Microsoft had

Microsoft contributed the drivers to rectify the licence violation, although the company attempted to portray it as a charitable act, rather than one to avoid legal

By 2011, Microsoft had become the 17th largest contributor to the Linux kernel. [47] As of February 2015, Microsoft was no longer among the top 30 contributing

In March 2003, the SCO Group accused IBM of violating their copyright on UNIX by transferring code from UNIX to Linux. SCO claims ownership of the copyrights on UNIX and a lawsuit was filed against IBM. Red Hat has countersued and SCO has since filed other related lawsuits. At the same time as their lawsuit, SCO began selling Linux licenses to users who did not want to risk a possible complaint on the part of SCO. Since Novell also claims the copyrights to UNIX, it filed suit against

In 1994 and 1995, several people from different countries attempted to register the name "Linux" as a trademark. Thereupon requests for royalty payments were

issued to several Linux companies, a step with which many developers and users of Linux did not agree. Linus Torvalds clamped down on these companies with help

by a dedicated foundation, the non-profit Linux Mark Institute. In 2000, Linus Torvalds specified the basic rules for the assignment of the licenses. This means that

Torvalds' rights, announced a price increase from 500 to 5,000 dollars for the use of the name. This step was justified as being needed to cover the rising costs of

In response to this increase, the community became displeased, which is why Linus Torvalds made an announcement on 21 August 2005, in order to dissolve the misunderstandings. In an e-mail he described the current situation as well as the background in detail and also dealt with the question of who had to pay license

anyone who offers a product or a service with the name *Linux* must possess a license for it, which can be obtained through a unique purchase.

from Linux International and was granted the trademark to the name, which he transferred to Linux International. Protection of the trademark was later administered

In June 2005, a new controversy developed over the use of royalties generated from the use of the Linux trademark. The Linux Mark Institute, which represents Linus

[...] And let's repeat: somebody who doesn't want to protect that name would never do this. You can call anything "MyLinux", but the downside is that you

may have somebody else who did protect himself come along and send you a cease-and-desist letter. Or, if the name ends up showing up in a trademark search that LMI needs to do every once in a while just to protect the trademark (another legal requirement for trademarks), LMI itself might have to send

At which point you either rename it to something else, or you sublicense it. See? It's all about whether you need the protection or not, not about whether

[...] Finally, just to make it clear: not only do I not get a cent of the trademark money, but even LMI (who actually administers the mark) has so far

■ 1991: The Linux kernel is publicly announced on 25 August by the 21-year-old Finnish student Linus Benedict Torvalds. [13]

interface (GUI). Commercial Linux distribution makers Red Hat and SUSE publish version 1.0 of their Linux distributions.

the, then proprietary, Qt toolkit. During the year IBM announces an extensive project for the support of Linux.

• 2009: RedHat's market capitalization equals Sun's, interpreted as a symbolic moment for the "Linux-based economy". [54]

• 2013: Google's Linux-based Android claims 75% of the smartphone market share, in terms of the number of phones shipped. [56]

■ 2012: The aggregate Linux server market revenue exceeds that of the rest of the Unix market.^[55]

• 1995: Linux is ported to the DEC Alpha and to the Sun SPARC. Over the following years it is ported to an ever greater number of platforms.

historically always lost money on it. That's not a way to sustain a trademark, so they're trying to at least become self-sufficient, but so far I can tell that

lawyers fees to give that protection that commercial companies want have been higher than the license fees. Even pro bono lawyers charge for the time of

• 1993: Over 100 developers work on the Linux kernel. With their assistance the kernel is adapted to the GNU environment, which creates a large spectrum of application types for Linux. The oldest currently (as of 2015) existing Linux distribution, Slackware, is released for the first time. Later in the same year, the

■ 1996: Version 2.0 of the Linux kernel is released. The kernel can now serve several processors at the same time using symmetric multiprocessing (SMP), and

• 1998: Many major companies such as IBM, Compag and Oracle announce their support for Linux. The Cathedral and the Bazaar is first published as an essay

• 1999: A group of developers begin work on the graphical environment GNOME, destined to become a free replacement for KDE, which at the time, depends on

• 2000: Dell announces that it is now the No. 2 provider of Linux-based systems worldwide and the first major manufacturer to offer Linux across its full product

• 2004: The XFree86 team splits up and joins with the existing X standards body to form the X.Org Foundation, which results in a substantially faster development

the essay^[51] brings Linux's open source development model to the attention of the popular technical press. In addition a group of programmers begins

• 2005: The project openSUSE begins a free distribution from Novell's community. Also the project OpenOffice.org introduces version 2.0 that then started

• 2006: Oracle releases its own distribution of Red Hat Enterprise Linux. Novell and Microsoft announce cooperation for a better interoperability and mutual

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2. Torvalds, Linus. "COPYING". kernel.org. Retrieved 13 August 2013. "Also note that the only valid version of the GPL as far as the kernel is concerned is this particular version of the

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27. "New Linux Foundation Launches - Merger of Open Source Development Labs and Free Standards Group" (Press release). SAN FRANCISCO and BEAVERTON, Ore.: PR Newswire

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37. Andrew Tanenbaum, Linus Torvalds and others: Linux is obsolete (https://web.archive.org/web/20100503140306/http://www.educ.umu.se/~bjorn/mhonarc-files/obsolete/msg00009.html

42. John Fontana. "Microsoft stuns Linux world, submits source code to kernel". Retrieved 2009-07-20. "In an historic move, Microsoft Monday submitted driver source code for inclusion in the Linux kernel under a GPLv2 license. [...] Greg Kroah-Hartman, the Linux driver project lead and a Novell fellow, said he accepted 22,000 lines of Microsoft's code at 9 a.m.PST Monday. Kroah-Hartman said the Microsoft code will be available as part of the next Linux public tree release in the next 24 hours. The code will become part of the 2.6.30.1 stable

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54. Red Hat set to surpass Sun in market capitalization. Linux world is set to eclipse the Unix world, as reflected in the stock prices of Red Hat and Sun Microsystems. Those prices are way

55. Linux is king *nix of the data center—but Unix may live on forever (http://arstechnica.com/information-technology/2013/10/linux-is-king-nix-of-the-data-center-but-unix-may-live-on-forev

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53. Orlowski, Andrew (19 March 2002), Microsoft 'killed Dell Linux' - States (http://www.theregister.co.uk/2002/03/19/microsoft killed dell linux states/). The Register, retrieved 3

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reading reveals several other problems with the current FSF draft: 5.1 DRM Clauses [...] 5.2 Additional Restrictions Clause [...] 5.3 Patents Provisions [...]since the FSF is proposing to shift all of its projects to GPLv3 and apply pressure to every other GPL licensed project to move, we foresee the release of GPLv3 portends the Balkanisation of the entire Open Source

between what the FSF is pushing which is very different from what open source and Linux has always been about, which is more of a technical superiority instead of a -- this religious belief in freedom," Torvalds told Zemlin. So, the GPL Version 3 reflects the FSF's goals and the GPL Version 2 pretty closely matches what I think a license should do and so right now,

change: I've had a couple of requests to make it compatible with the GNU copyleft, removing the "you may not distribute it for money" condition. I agree. I propose that the copyright be changed so that it confirms to GNU - pending approval of the persons who have helped write code. I assume this is going to be no problem for anybody: If you have grievances ("I wrote that code assuming the copyright would stay the same") mail me. Otherwise The GNU copyleft takes effect as of the first of February. If you do not know the gist of the GNU copyright -

(later as a book), resulting in Netscape publicly releasing the source code to its Netscape Communicator web browser suite. Netscape's actions and crediting of

• 1994: Torvalds judges all components of the kernel to be fully matured: he releases version 1.0 of Linux. The XFree86 project contributes a graphical user

incorporated a Hyper-V network driver, with GPL-licensed open source components, statically linked to closed-source binaries in contravention of the GPL licence.

that enterprise use of Linux on servers compared unfavorably to the use of Windows in terms of reliability, security, and total cost of ownership. [40]

non-commercial free software developers. The last part was criticized because it only included non-commercial free software developers.

performance of the product speak for itself, rather than advertising the product by studies.

action against it. In the past Microsoft had termed Linux a "cancer" and "communist".[42][43][44][45][46]

these perceived threats.

sponsor companies.[1](pp10-12)

SCO has since filed for bankruptcy. [48]

you a cease-and-desist-or-sublicense it letter.

The Linux Mark Institute has since begun to offer a free, perpetual worldwide sublicense. $^{[50]}$

Debian project is established. Today it is the largest community distribution.

thereby becomes a serious alternative for many companies.

■ 2002: The media reports that "Microsoft killed Dell Linux" [53]

■ 2007: Dell starts distributing laptops with Ubuntu pre-installed on them.

license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated."

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12. Torvalds, Linus and David Diamond, Just for Fun: The Story of an Accidental Revolutionary, 2001, ISBN 0-06-662072-4

18. z-archive of Linux version 0.99 (ftp://ftp.kernel.org/pub/linux/kernel/Historic/v0.99/linux-0.99.tar.Z), kernel.org, December 1992

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developing the graphical user interface KDE.

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■ 2011: Version 3.0 of the Linux kernel is released.

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Categories: Linux kernel | History of software | History of free and open-source software

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■ 1992: The Linux kernel is relicensed under the GNU GPL. The first Linux distributions are created.

LMI wants the money or not.

their costs and paralegals etc.

— Linus Torvalds^[49]

Chronology

line.[52]

See also

References

of the X server for Linux.

patent protection.

History of free software

version of this paper."

Trademark rights

trademark protection.

costs:

SCO

antagonistic interactions between 1997 and 2001. This became quite clear for the first time in 1998, when the first Halloween document was brought to light by Eric S. Raymond. This was a short essay by a Microsoft developer that sought to lay out the threats posed to Microsoft by free software and identified strategies to counter