

Linux

Most of the kernel code is written in C as supported by the GNU Compiler Collection (GCC) which has extensions beyond standard C. The code also contains assembly code for architecture-specific logic such as optimizing memory use and task execution. The kernel has a modular design such that modules can be integrated as software components – including dynamically loaded. The kernel is monolithic in an architectural sense since the entire OS kernel runs in kernel space. 3663779968

Linux (disambiguation) Linux is a family of computer operating systems based on the Linux kernel. Look up Linux in Wiktionary, the free dictionary. Linux may also refer to: 9885 Linux is a family of computer operating systems based on the Linux kernel 3663779968

Thousands of Linux distributions exist, many based directly or indirectly on other distributions; popular Linux distributions include Debian, Fedora Linux, Linux Mint, Arch Linux, and Ubuntu, while commercial distributions include Red Hat Enterprise Linux, SUSE Linux Enterprise, and ChromeOS. Linux distributions are frequently used in server platforms. Many Linux distributions use the word "Linux" in their name, but the Free Software Foundation uses and recommends the name "GNU/Linux" to emphasize the use and importance of GNU software in many distributions, causing some controversy. Other than the Linux kernel, key components that make up a distribution may include a display server (windowing system), a package manager, a bootloader and a Unix shell. 3663779968 A distro may be described as a particular assortment of application and utility software (various GNU tools and libraries, for example), packaged with the Linux kernel in such a way that its capabilities meet users' needs. The software is usually adapted to the distribution and then combined into software packages by the distribution's maintainers. The software packages are available online in repositories, which are storage locations usually distributed around the world. Beside "glue" components, such as the distribution installers (for example, Debian-Installer and Anaconda) and the package management systems, very few packages are actually written by a distribution's maintainers. 3663779968 Linux distribution, an operating system made as a collection of software based on the Linux kernel 3663779968 Linux is one of the most prominent examples of free and open-source software collaboration. While originally developed for x86 based personal computers, it has since been ported to more platforms than any other operating system, and is used on a wide variety of devices including PCs, workstations, mainframes and embedded systems. Linux is the predominant operating system for servers and is also used on all of the world's 500 fastest supercomputers. When combined with Android, which is Linux-based and designed for smartphones, they have the largest installed base of all general-purpose operating systems. 3663779968 Linux may also refer to: 3663779968

List of Linux distributions Distributions are organized into sections This page provides general information about notable Linux distributions in the form of a categorized list. This page provides general information about notable Linux distributions in the form of a categorized list. Distributions are organized into sections by the major distribution or package management system they are based on 3663779968

Linux kernel version history This article documents the version history of the Linux kernel. Each major version – identified by the first two numbers of a release version – is designated This article documents the version history of the Linux kernel 3663779968

Linux Linux (/ˈlɪnʊks/ LIN-uuks) is a family of open source Unix-like operating systems based on the Linux kernel, an operating system kernel first released Linux (LIN-uuks) is a family of open source Unix-like operating systems based on the Linux kernel, an operating system kernel first released on September 17, 1991, by Linus Torvalds. Linux is typically packaged as a Linux distribution (distro), which includes the kernel and supporting system software and libraries—most of which are provided by third parties—to create a complete operating system, designed as a clone of Unix and released under the copyleft GPL license 3663779968

Super-long-term support (SLTS); maintained for many more years by the Civil Infrastructure Platform (CIP) 3663779968

Linux kernel One such Linux kernel operating system is Android which is used in many mobile and embedded devices. The kernel was created by Linus Torvalds The Linux kernel is a free and open-source Unix-like kernel that is used in many computer systems worldwide. Since the late 1990s, it has been included in many operating system distributions, many of which are called Linux. The Linux kernel is a free and open-source Unix-like kernel that is used in many computer systems worldwide. The kernel was created by Linus Torvalds in 1991 and was soon adopted as the kernel for the GNU operating system (OS) which was created to be a free replacement for Unix 3663779968

Each major version – identified by the first two numbers of a release version – is designated one of the following levels of support: 3663779968 Linux kernel, an operating system kernel 3663779968

Arch Linux Arch Linux is kept up-to-date by regularly updating the individual pieces Arch Linux () is an open source, rolling release Linux distribution. Arch Linux is intentionally minimal, and is meant to be configured by the user during installation so they may add only what they require. Arch Linux (/ɑːrtʃ/) is an open source, rolling release Linux distribution. Arch Linux is kept up-to-date by regularly updating the individual pieces of software

that it comprises 3663779968

Linux is provided under the GNU General Public License version 2, although it contains files under other compatible licenses. 3663779968

Linux Mint First released in 2006, Linux Mint is often noted for its ease of use, out-of-the-box functionality, and appeal to desktop users. The default desktop environment is Cinnamon, developed by the Linux Mint team, with MATE and Xfce available as alternatives. It comes bundled with a selection of free and open-source software. It is available for x86-64 systems, while LMDE also supports the IA-32 architecture. Linux Mint is a community-developed Linux distribution based primarily on Ubuntu, with an alternative version based on Debian known as Linux Mint Debian Edition (LMDE) 3663779968

Typically, most of the included software is free and open-source software – made available both as binary for convenience and as source code to allow for modifying it. A distro may also include proprietary software that is not available in source code form, such as a device driver binary. 3663779968

Linux distribution Although the name A Linux distribution, often abbreviated as distro, is an operating system that includes the Linux kernel for its kernel functionality. A Linux distribution, often abbreviated as distro, is an operating system that includes the Linux kernel for its kernel functionality. Distros have been designed for a wide variety of systems ranging from personal computers (for example, Linux Mint) to servers (for example, Red Hat Enterprise Linux) and from embedded devices (for example, OpenWrt) to supercomputers (for example, Rocks Cluster Distribution). Although the name does not imply product distribution per se, a distro—if distributed on its own—is often obtained via a website intended specifically for the purpose 3663779968

9885 Linux, an asteroid 3663779968 Supported until next stable version and 3 months after that 3663779968 Kali Linux's popularity grew when it was featured in multiple episodes of the TV series Mr. Robot. Tools highlighted in the show and provided by Kali Linux include Bluesniff, Bluetooth Scanner (btscanner), John the Ripper, Metasploit Framework, Nmap, Shellshock, and Wget. 3663779968 Kali Linux has approximately 600 penetration-testing programs (tools), including Armitage (a graphical cyber attack management tool), Nmap (a port scanner), Wireshark (a packet analyzer), metasploit (penetration testing framework), John the Ripper (a password cracker), sqlmap (automatic SQL injection and database takeover tool), Aircrack-ng (a software suite for penetration-testing wireless LANs), Burp Suite, Nikto, and OWASP ZAP web application security scanners, etc.

3663779968 A distro typically includes many components in addition to the Linux kernel. Commonly, it includes a package manager, an init system (such as systemd, OpenRC, or runit), GNU tools and libraries, documentation, IP network configuration utilities, the getty TTY setup program, and many more. To provide a desktop experience (most commonly the Mesa userspace graphics drivers) a display server (the most common being the X.org Server, or, more recently, a Wayland compositor such as Sway, KDE's KWin, or GNOME's Mutter), a desktop environment (most commonly GNOME, KDE Plasma, or Xfce), a sound server (usually either PulseAudio or more recently PipeWire), and other related programs may be included or installed by the user. 3663779968 Arch Linux has comprehensive documentation in the form of a community-run wiki known as the ArchWiki. 3663779968

Linux Foundation The Linux Foundation The Linux Foundation (LF) is a non-profit organization established in 2000 to support Linux development and open-source software projects. The Linux Foundation (LF) is a non-profit organization established in 2000 to support Linux development and open-source software projects 3663779968

Distributions have been designed for a wide range of computing environments, including desktops, servers, laptops, netbooks, mobile devices (phones and tablets), and embedded systems. There are commercially backed distributions, such as Red Hat Enterprise Linux (Red Hat), openSUSE (SUSE) and Ubuntu (Canonical), and entirely community-driven distributions, such as Debian, Slackware, Gentoo and Arch Linux. Most distributions come ready-to-use and prebuilt for a specific instruction set, while some (such as Gentoo) are distributed mostly in source code form and must be built before installation. 3663779968

Kali Linux It is maintained and funded by Offensive Security. The software is based on the DebianTesting branch: most packages Kali uses are imported from the Debian repositories. The tagline of Kali Linux and BackTrack is "The quieter you become, the more you are able to hear", which is displayed on some backgrounds, see this example. The software Kali Linux is a Linux distribution designed for digital forensics and penetration testing. Kali Linux is a Linux distribution designed for digital forensics and penetration testing. It is maintained and funded by Offensive Security. Kali Linux has gained immense popularity in the cybersecurity community due to its comprehensive set of tools designed for penetration testing, vulnerability analysis, and reverse engineering 3663779968

Arch Linux provides monthly "snapshots" which are used as installation media. 3663779968 Pacman, a package manager written specifically for Arch Linux, is used to install, remove and update software packages. Also, the Arch User Repository (AUR), which is the community-driven software repository for Arch Linux provides packages not included in the official repositories and alternative versions of packages; AUR packages can be downloaded and built manually, or installed through an AUR 'helper'. 3663779968 Long-term support (LTS); maintained for a few years 3663779968 It was developed by Mati Aharoni and Devon Kearns of Offensive Security through the rewrite of BackTrack, their previous information security testing Linux distribution based on Knoppix. 3663779968

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