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Photo: Xiaomi

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Custom Android ROM developed by Xiaomi MiUIDEVeloperXiaomios FamilyAndroidworking LaworkingActivesiveSource Modelopen Source (Android base and mainframe) with proprietary components (MIUI app and kit) initial release0.8.16 / August 16, 2010; 11 years ago (2010-08-16) Latest Version 12.5.18.0 (Mainland China) 12.5.14.0 (Global Market) Latest Preview [12.5] 21.12.9 (Mainland China) / December 9, 2021; 25 days ago (2021-12-09) Marketing Replacement of the alternative target operating system for Android devices; Xiaomi firmware signature for mobile devices for XiaomiSavailable IN77 Languages (varies by country) Platforms ARM, MIPS, X86, X64Kernel TypeMoliticolitic (Modified Linux Kernel) Licenzias LicenseAche License 2.0 GNU General Public License V3PropriediaRyAryOfficiary Weben.miui.com (Global) MiUi.com (Mainland China) Miui (Pronunciation: me you i) [1] It is a modified Android ROM [2] developed by Electronics Manufacturer Xiaomi for its smartphones. This is a fork of the Android operating system. [3] MIUI includes various features such as theme support. [4] There are different versions for each Xiaomi phone, and each version has variants depending on the regions where the phone is sold, such as Chinese, Global, EEA, Pakistan, Russian, Indonesian, Indian, Taiwan and Turkish. Xiaomi has released some smartphones with Android one while others have MIUI, according to the current version of Android. Xiaomi devices usually get three Android version upgrades, but receive MIUI updates for four years. [5] The first MIUI ROM was based on Android 2.2.X Froyo and was initially developed in Chinese by Startup Xiaomi Tech Chinese. [6] Xiaomi has added a number of apps to the base frame, including their notes, backup, music and gallery apps. [7] An organization called Xiaomi Europe (Xiaomi.eu), not a part of Xiaomi, was established in 2010 as a community for Android MiUi products and in English. Xiaomi! I officially work with Xiaomi on app translations and bug fixing. Xiaomi! I issue my own versions of Xiaomi MIUI ROM, based on and weekly beta services of the Chinese ROM.[8] Installing the xiaomi. eu ROM voids the warranty on Xiaomi phones; according to the xiaomi. eu leader, the official ROM must be flashed and the bootloader locked before returning a device for warranty repair. [9] MIUI services and Google Play Google have disagreed with the Chinese government, and access to many Google services is blocked. MIUI does not ship with Google Play Services in mainland China. However, Xiaomi has expanded its operations outside China; MIUI releases for Android devices outside of mainland China have Google Play Services and Google Apps such as Gmail, Google Maps, Google Play Store pre-installed and running like any other Android device. MIUI global versions are certified by Google. Comparison of all variants MIUI China Global xiaomi. eu Available languages Few, including Chinese and English selection Wide downloadable themes All changes to search Yes with Bing International and Chinese search engine selection My Browser (official) Yes Smart Assistant App once source of default app GetApps Google Play In India Mi Picks (renamed Apps) [11]/ Getpps Google Play Mi Cloud Service All updates Stable Developer Stable Beta Dev/Stable Beta Top priority. Updated every Thursday Usually updated every two months[12] No longer available Usually updated every two months Updated every Friday Usually updated every two months OTA Yes; patches are not supported, so a new full ROM is downloaded whenever the Official Yes (made by Xiaomi) approved by the official distribution in the European Union. [8] Custom Recovery Prescription No Yes Additional Features Optional access to various Chinese online services with built-in root support (unlocked booloader is required) Optional access to various Chinese online services Additional icons for some applications third parties Download some hardware features on selected devices Supported Xiaomi devices excluding majorityolder devices cannot be upgraded most excludes devices never released outside the rpc older devices cannot be upgraded to my android vs. even if the miui is built on the android platform, the default user interface of its previous iterations resembled ios for the absence of the application tray,[13] with a grid of icons placed in the home panels. Other isolikes include the icon app being in a uniform form, the dialer and the call interface, the organization of the app settings, and the visual appearance of switches in the user interface. This prompted some observers to quote how the devices running on miui could appeal to ios users who want to move to the Android platform.[13] by 2018, miui was moving more and more towards an aesthetic design more similar to the android stock. For example, several building elements miui 10 resemble android pie, such as multitasking menu and gesture controls.
[14] this change was first seen in miui 9 (ver 8.5.11) provided with xiaomi mi mix 2s. the miui firmware seemed already Android series P.[15] Another difference compared to android is miui support for custom themes and fonts. users can download theme packages and fonts, which can change the user interface of the device once installed by my themes store. allows advanced users to modify the hard-coded firmware of their phones.[16] miui kernel problems were owner and violated Linux kernel gpl.[17][18] the source code for some components was released to github on October 25, 2013.[19] kernel sources for some devices, including mi3, mi4, minotes and redmi 1s, were released in March 2015.[20]payment and games. Payments are made using MiCredit digital currency.[21] After the Indian government banned over 100 Chinese applications and services in 2020 due to national security and privacy Including some made by Xiaomi, the company has developed a MIUI version without them for India. [22] [23] Many users have also reported an incorrect display in dark mode, higher battery consumption and non-responsive touch problem. MIUI 12 bugs have grown in the last few years on almost all the Redmi devices, Xiaomi of little, will be the oldest or new ones. [24] The company has yet to officially release any statement. [25] Vulnerability in April 2019, the security researcher Arif Khan reported that the Xiaomi browser browser and mint browser immediately from a vulnerability that allowed the address bar URL to be checked, which bit Indian Indian and some global versions of Miui. Xiaomi gave Khan a bug bounty but opted not to solve this problem. [26] [27] Furthermore, a vulnerability in a look of wallpaper carousel app on Miui's Indian versions allowed the user to bypass the lock screen and access the clipboard data. [28] [29] This vulnerability has been finally established by Xiaomi. [29] Version History Version Screenshot Android Version Release Date Latest Stable Version Initial Beta Version Version Latest Beta Version Notable Change Version Old Version, No more maintained: MIUI V1 2.1 August 16, 2010 N / A 0.8.16 AÂ ¢ Krown Initial Version , no longer maintained: MIUI V2 2.1-2.3.6 UnÂ ¢ Knatown N / A UnÂ ¢ Knatown UnÂ ¢ Krown Redesigned User Interface Version of the Old Version User, is no longer maintained: MIUI V3 2.3.6 UnÂ ¢ Knatown N / At UnÂ ¢ Krown old version, it is no longer maintained: 2.4.20 Old older user interface old version, no longer maintained: MIUI V4 4.0.4 Â ¢ â,¬ "4.1.2 AÂ ¢ Krown ICS24.0 [30] Ancient version, it is no longer maintained: 3.2.22 New user interface added the anti-virus version, not maintained: MIUI V5 4.1.2 â ¢ "4.4.2 1 March 2013 [31] 31.0 [32] 3.3.1 Old version, no longer maintained: 4.12.5 New user interface Google services have been removed from the Chinese version Old version, no longer maintained: MIUI 6 4.4 .2 â€ "5.0.2 29 August 2014 [33] 6.7.2.0 4.8.29 Old version, no longer maintained: 5.8. 6 New Fall User Interfacerunning Android jelly or older, not maintained anymore: MIUI 7.4.2 Â£Â 6.0 is no longer maintained: 7.7.20 Minor changes to the user interface Update system applications Added support for Second Space and Dual apps. Old version, not maintained anymore: MIUI 9.4.2 Â£Â 8.1.0 August 2017.6.5.0.10 Old version, not maintained anymore: 8.5.24 minor changes to user interface Added enhanced notification screen with separate screen Shadow and QuickCard (currently known as App Vault) New mode Silent key gesture and shortcuts Added facial opening. Old Version, Not Maintained: MIUI 10.6.0 Â£Â 9 19 June 2018[36] 10.4.5.0.6.14 Old Version, Not Maintained: 9.9.6 New Notification Hue Extended Notification Functionality New New App Screens, Volume Control, Clock, Calendar and Notes Superior integration with Xiaomi Minor changes to UI Deleted Black Theme (Mi Note 2) Cascading devices running Android Lollipop or older version, is no longer maintained: MIUI 11 7.0 Âe 128;Â 10 October 22, 2019 11.0.9.24 Old version, is no longer maintained: 20.3.2 6 Dropped devices running Android Marshmallow Based on Android 10 on some devices in dark mode system, with scheduling in dark mode. Monochrome ultra power saving mode Mi calculator (Pip mode) Miui Notes App Download new icons Optional app settings for system launcher Status bar optimization Automatic optimization screenshot management[37] Added ultra battery saver (China) Opt Out Of Advertis China ROM settings only first version Older, However still maintained: MIUI 12 âˆ 11 April 27th, 2020.12.2.7.0 20.4.27 Old version, no longer maintained: 20.12.10 Drop devices running Android Oreo or under dark mode 2.0 New gestures and animations (Smoother Mode) in the boxes) New icons New notification screen AI Call help (automatic response) Super Wallpaper (Zomp Planet always on display at Lockscreen at Homescreen) App Drawer for the first time More privacy focused 1 time permission for location, contacts etc. in third-party applications Added floating windows Added ultra battery saver for global version Added Lite Mode Video toolbox. New fingerprint animations[38] New camera filters & gallery Vault App redesigned Stable version current: MIUI 12.5 14 0 12 28 December 2020 12.5.14.0 21.1.14 Stable current version: 21.12.9 Devices abandoned with Android Pie New natural sounds of notifications Fluid animations Redesigned folders app Added vertical layout for recent improvements Mi Notes Adding new Super wallpapers («Geometry» and «Mount Siguniang») Adding heart rate measurement using camera Future version: MIUI 13 11 12 28 December 2021 N/A N/A N/A Devices abandoned with Android 10 New One-handed widget from Android 12 ¢ ¢ ¢ ¢ ¢ ¢ ¢ ¢ ¢ ¢ ¢ ¢ ¢ ¢ ¢ originale ¢ Retrieved 28 April 2021.

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"MY 11 will introduce new icons, ultra energy saving mode and more." 29th March 2019. "My 12.1 coming. Here's all that's new! - Tech in Deep." External links Official Chinese website Official English website Recovered from" "Page 2Computer bit width architecture This article needs further citations for verification. Please help improve this article by adding quotes to reliable sources. The material not provided can be contested and removed. Find the sources:"32-bit computing Learn how and when to remove this template message) Bit architectures for computer Bit 1248121626263032364548646456512bit slicing Application 81664 Variable Precision 16 (1a)2(z432 (a)4064 (a)80128 (a)256 (a)8) Variable nominal precision 3264128 vte In computer architecture, 32-bit integers, memory addresses or other data units are those of 32-bit (4-octet) width. In addition, 32-bit CPU and ALU architectures are those based on registers, address buses or data buses of this size. 32-bit microcomputers are computers where 32-bit microprocessors are the norm. A 32-bit register can store 232 different values for the entire storage range. The range of integer values that can be stored in 32-bit depends on the integer representation used. With the two most common representations, the range is from 0 to 4.294967295 (232'1) for the representation as a track number (not signed) and 2147483648 (231) to 2.147483647 (231'1) for the representation as a complement of two. An important consequence is that a processor with 32-bit memory can directly access 4 gib byte-sensitive memory (although in in The limit can be lower). Technical history The first program electronic computer stored in the world, Manchester Baby, used a 32-bit architecture in 1948, although it was only a prototype and had little practical capacity. It contained only 32 32-bit ram words on a Williams valve, and had no addition operations, but only subtractions. The memory, as well as other digital circuits and wiring, was expensive during the first decades of 32-bit architectures (from the years â € "" 60 to the years â € "" 80). [1] The most old 32-bit processor families (or their simpler and more economical variants) could therefore have many compromises and limits to reduce costs. This could be a 16-bit ALU, for example, or external buses (or interior) closer than 32 bits, limiting the memory size or requesting more cycles for the recovery of the instructions, the execution or rewrite. Although this, these processors could be labeled 32-bit, since they still had 32-bit records and instructions capable of manipulating 32-bit quantities. For example, the IBM System / 360 Model 30 had an 8-bit ALU, 8-bit internal data routes and a 8-bit memory path, [2] and the original Motorola 68 000 had a 16-bit ALU and An external 16-bit data bus, but had 32-bit records and a 32-bit-oriented instruction set. The 68 000 project has sometimes been indicated as 16/32-bit. [3] However, the opposite is often true for new 32-bit projects. For example, the Pentium Pro processor is a 32-bit machine, with records and 32-bit records manipulating 32-bit quantities, but the external address bus has a width of 36 bit, giving a larger addressing space than 4Å, GB, and the external data bus has a width of 64 bit, mainly to allow a more efficient prefetch of instructions and data. [4] Architectures The main 32-bit instruction set architectures used in general computer science include IBM and IBM System/370 (which had a 24-bit address) and System/370-XA, ESA/370, ESA/390 (which had a 31-bit address), DEC VAX, NS320xx, Motorola 68 000 000 (The first two models of which had a 24-bit address), Intel version IA-32 to 32-bit architecture X86 and 32-bit versions of the arm, [5] SPARC, MIPS, PowerPC and PA-RISC architecture. The 32-bit Set Architectures instructions used for embedded computing include the 68000 family and the Coldfire, X86, Braccio, MIPS, PowerPC and Infineon Tricore Architectures family. X86 architecture applications, a 32-bit application usually means software that typically (not necessarily) uses the space of 32-bit linear addresses (or the flat memory model) possible with 80386 and subsequent chips. In this context, the term has arrived because © DIOS, Microsoft Windows and OS / 2 [6] were originally written for microprocessors from 8088/8086 or 80286, to 16 bit with a segmented address space where dozens of programs had to move from segments to reach more than 64 kilobytes of code or data. Poiche. © This is quite worn out compared to other machine operations, the performance may suffer. In addition, programming with segments tends to become complicated; Simply by far and close to keywords or memory models had to be used (carefully), not only is assembly language but also in high-level languages such as Pascal, compiled Basic, Fortran, C, etc. The 80386 and its successors fully support the 16th –bit segments of the 80286 but also segments for 32-bit address offsets (using the new 32-bit width of the main registers). If the base address of a l 32-bit segments is set to 0, and the segment registers are not used explicitly, the segmentation can be forgotten and the processor appears as a simple space of 32-bit linear addresses. Operating systems such as Windows or OS / 2 provide the possibility to run 16-bit (segmented) and 32-bit programs. Ex exists for backward compatibility and the latter is usually thought to be used for new software development. Images in pictures / digital images, 32 bit usually refers to the RGBA color space; i.e., 24 bit TrueColor images with an additional 8 bit Alpha Other image formats also specify 32-bit pixels, such as RGBE. In digital images, 32 bit sometimes refers to HDR (High Dynamic Range Imaging) formats that use 32 bit per channel, for a total of 96 bit per pixel. 32-bit images per channel are used to represent brighter values than allowed by sRGB color space reflection. For example, a reflection in an oil stain is only a fraction of that seen on a mirror surface. HDR images allow you to reflect the highlights that can still be seen as bright white areas, instead of opaque grey shapes. File Formats A 32-bit file format is a binary file format for which all elementary information is defined by 32-bit (or 4-byte). An example of this format is the Enhanced Metafile Format. See also 64-bit Game History (was 32-bit) Word (data type) Physical Address Extension (PAE) Patterson References, David; Ditzel, David (2000). Readings in Computer Architecture. San Diego: Academic Press. p.136. ISBN 9 781 558 605 398. IBM System/360 Model 30 Functional Characteristics (PDF). LAIBM. August 1971. pp. 8, 9. GA24-3231-7. "User Manual 68 000A" (PDF)." Gwennap, Linley (16th February 1995). "Intel's P6 uses the Disconnected Superscale Design" (PDF). Report on the microprocessor. URL consulted on December 3rd. ARM architecture overview (PDF). There were also UNIX variants for the 80'286. 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