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This is a dynamic list and may never be able to satisfy particular standards for completeness. You can help by adding missing items with reliable sources. This is a list of Android distributions (android-based operating systems, custom firmware, custom ROM) that have received independent coverage in notable Android-related sources. The list may include distributions that come preinstalled on a device (stock ROM) or modifications of them. Only official builds are listed. Table Name Developer Development status Last updated Open source?[a] Latest release Android version Year started Supported devices Notes AliOS Alibaba Cloud Active 2018 Kernel only 2.0 2011 A forked but incompatible version of Android[1] AOKP Team Kang Discontinued 2020 Yes Pie 9 2011 115[2] Based on LineageOS Baidu Yi Baidu, Inc. Discontinued 2015 Kernel only Unknown Unknown 2011 Unknown Discontinued in March 2015 CalyxOS Calyx Institute Active 2022 Yes 3[3] 12 2019[4] 15[5] Privacy focused. Google and Xiaomi Smartphones. ColorOS OPPO Active 2022 Kernel only 12.1 12 2013 OPPO Android Smartphones CopperheadOS Copperhead Security Active 2022 Kernel only 12.2.2 12[6] 2014 9[7] Security- and privacy-focused, no OS analytics by default, smartphones with preinstalled OS commercially available. crDroid crDroid team Active 2022 Yes 8.9 12 2014[8] 454[9] Based on LineageOS. CyanogenMod CyanogenMod Open-Source Community, Cyanogen Inc. Discontinued 2016 Yes 14.1 Nightly 7.1.1 2009 571[10] CyanogenMod's official successor is LineageOS DivestOS[11] Tad (SkewedZeppelin) [12] Active 2022 Yes 19 12 2014 ? Soft fork of LineageOS. Includes Monthly Updates, FOSS Focus, Dehlobbing, Security and Privacy focus, and F-Droid /e/ Foundation Active 2021 Partial 0.23[13] 11[13] 2017 240[14] Privacy focused, smartphones with preinstalled OS commercially available. Forked from LineageOS. Formerly called "Eelo", Emteria.OS emteria GmbH Active 2022 Kernel only[15] 11.8[16] 11 2017 ARM and x86 platforms, strong focus on the Raspberry Pi family (3B, 4, CM, etc) Platform for building custom Android ROMs ("emteria.OS") targeted at professional enterprise applications. Supported by a set of remote management and OTA update capabilities ("DeviceHub"). EMUI Huawei Technologies Co., Ltd. Active 2019 Kernel only 11.0 10 2012 Huawei and Honor devices Also known as Magic UI in most of the high-end Honor devices and the current Honor devices after it split with Huawei. Fire OS Amazon.com, Inc. Active 2021-09-25 Partial[17] 7.3.2.2 9 2011 Amazon Kindle Fire, Fire TV, Fire Phone, Amazon Echo Centered on content consumption, heavy ties to Amazon's store and content. GrapheneOS GrapheneOS team Active 2022-08-21 Yes 2022082100[18] 6.0.1 - 13[18][19] 2019[20] 15[21] Security and privacy focused. Lead developer worked on CopperheadOS until a dispute between the co-founders over licensing caused his departure.[20] Indus OS Team Indus OS Active ? Kernel only 3.0 7 2015 80[22] iodéOS iodé technologies Active 2022 No 2.3 11 2020 20[23] Based on LineageOS. Kali NetHunter[24][25] Kali community member "BinkyBear" & Offensive Security Active 2022-08-09[26][27] Yes 2022.3[26][27] 5.1.1 - 12[25][28][29][30] Unknown 32[25][28][29][30] Open Source Android penetration testing platform. NetHunter supports Wireless 802.11 frame injection, one-click MANA Evil Access Point setups, HID keyboard, as well as BadUSB MITM attacks - built upon Kali Linux distribution and toolsets.[24][25][31] LeWa OS Lewa Technology Discontinued ? Kernel only OS 7 beta 5.1.1 2011 LineageOS LineageOS community Active 2022 Yes 19.1 12.1 2016 175[32] Officially the successor of CyanogenMod. MIUI Xiaomi Corporation Active 2022 Partial 13 12 2010 Xiaomi devices OmniROM OmniROM community Active 2020 Yes 11.0 11 2013 19[33] One UI Samsung Electronics Co., Ltd. Active 2022 Kernel only 4.1 12 2019 Samsung Galaxy Smartphones and Tablets Succeeding Samsung Experience UX and TouchWiz OxygenOS OnePlus Active 2022 Partial 12.1 12 2015 OnePlus Android Smartphones Merged with HydrogenOS in 2018. [34] Using ColorOS codebase from 12.0 release. Paranoid Android Paranoid Android Team Active 2020 Yes Quartz 5[35] 10 2012[citation needed] 31[36] Based on CAF Replicant Denis Carikli, Paul Kociałkowski Active 2019 Yes 6.0 0003 6 2010 12[37] Based on LineageOS, removes or replaces proprietary components and anti-features Resurrection Remix OS Resurrection Remix Team Active 2020 Yes 8.7.1 10 2012 74[38] Based on LineageOS[citation needed] Shift OS SHIFT GmbH Active ? Yes SlimRoms SlimRoms Team Active 2018 Yes 7 7.1 2012 ~50 Smartisan OS Smartisan Active 2020 Partial 8.0 10 2012 15 See also ClockworkMod - custom recovery image Comparison of mobile Operating Systems F-Droid - community-maintained Software Repository for Android MicroG - replacement for Google Play Services Team Win Recovery Project (TWRP) - custom recovery image Notes ^ Fully open source Android distributions may ship with proprietary drivers. References ^ "Google blocked Acer's rival phone to prevent Android "fragmentation"". 15 September 2012. ^ "Devices". Android Open Kang Project. Retrieved 1 May 2019. ^ "CalyxOS News Android 12 changelog, now stable". Retrieved 2022-02-01. ^ "Get It | CalyxOS". 2019-04-23. Archived from the original on 2019-04-23. Retrieved 2021-03-15. ^ "Install CalyxOS". calyxos.org. Retrieved 2022-02-01. ^ "CopperheadOS Updates". Retrieved 19 March 2022. ^ "Device comparison - Copperhead". copperhead.co. ^ Bora, Kukil (2014-04-01). "Android 4.4.2 KitKat For Samsung Galaxy S3 GT-I9300: How To Install It Using crDroid Custom ROM [Tutorial]". International Business Times. Retrieved 2020-03-19. ^ "crDroid.net". Retrieved 16 September 2022. ^ "Devices". CyanogenMod. Archived from the original on 19 August 2016. Retrieved 19 August 2016. ^ "About - DivestOS Mobile". divestos.org. Retrieved 2022-06-10. ^ "DivestOS: long term device support with enhanced privacy and security". F-Droid Forum. 2020-06-12. Retrieved 2022-06-10. ^ a b "Releases - /e/ os releases". GitLab. Retrieved 2021-07-06. {{cite web}}: Check |url= value (help) ^ "Get Support - e Foundation", e Foundation - deGoogled unGoogled smartphone operating systems and online services - your data is your data. Retrieved 2021-10-31. {{cite news}}: Check |url= value (help) ^ "Terms and Conditions". Section 3.7. Retrieved 3 October 2020. ^ "Emteria". emteria.com. Retrieved 2022-07-08. ^ "Source Code Notice". Amazon. Retrieved 3 October 2020. ^ a b "Releases". grapheneos.org. ^ "Legacy changelog | History | GrapheneOS". grapheneos.org. Retrieved 2022-08-17. ^ a b "GrapheneOS: Ein gehärtetes Android ohne Google, bitte - Golem.de". 2020-01-07. Archived from the original on 2020-01-07. Retrieved 2021-03-15. ^ "Which devices are supported?". Retrieved 2021-08-02. {{cite web}}: CS1 maint: url-status (link) ^ "Indus OS partners with US based digital turbine". telecom.economictimes.indiatimes.com. Archived from the original on 2 June 2017. Retrieved 2 June 2017. ^ Introduction, iodéOS, 2022-01-31, retrieved 2022-02-21 ^ a b "Kali NetHunter | Kali Linux Documentation". Kali Linux. Retrieved 2021-09-15. ^ a b c d "Get Kali Mobile". Kali Linux. Retrieved 2021-09-15. {{cite web}}: CS1 maint: url-status (link) ^ a b "Blogs | Kali Linux Blog". Kali Linux. Retrieved 2021-09-15. ^ a b "Releases History". Kali Linux. Retrieved 2021-09-15. ^ a b "Kali NetHunter Image Statistics". stats.nethunter.com. Retrieved 2021-09-15. ^ a b "Official Kali NetHunter Images". stats.nethunter.com. Retrieved 2021-09-15. ^ a b "Kali Linux / NetHunter / build-scripts / kali-nethunter-devices". GitLab. Retrieved 2021-09-15. ^ "Kali NetHunter App Store - Android App Repository for Penetraton Testing and Forensics". store.nethunter.com. Retrieved 2021-09-15. ^ "LineageOS Downloads". download.lineageos.org. Retrieved 27 January 2021. ^ "OmniROM - Supported devices". www.omnirom.org. Retrieved 20 February 2020. ^ "OnePlus merging Oxygen OS and Hydrogen OS to improve updates". Android Authority. 2016-09-04. Retrieved 2020-01-04. ^ "Paranoid Android Quartz 5". blog.paranoidandroid.co. ^ "Paranoid Android - Supported devices". Retrieved 9 September 2020. ^ Paul Kociałkowski (30 June 2015). "Replicant status". Replicant. Retrieved 22 September 2015. ^ "ResurrectionRemix Downloads". Retrieved 12 October 2020. Retrieved from "Till now, we were scheduling the processes according to their arrival time (in FCFS scheduling). However, SJF scheduling algorithm, schedules the processes according to their burst time. In SJF scheduling, the process with the lowest burst time, among the list of available processes in the ready queue, is going to be scheduled next. However, it is very difficult to predict the burst time needed for a process hence this algorithm is very difficult to implement in the system. Advantages of SJF Maximum throughput Minimum average waiting and turnaround time Disadvantages of SJF May suffer with the problem of starvation It is not implementable because the exact Burst time for a process can't be known in advance. There are different techniques available by which, the CPU burst time of the process can be determined. We will discuss them later in detail. Example In the following example, there are five jobs named as P1, P2, P3, P4 and P5. Their arrival time and burst time are given in the table below. PID Arrival Time Burst Time Completion Time Turn Around Time Waiting Time 1 7 8 7 0 2 3 3 13 10 7 3 6 2 10 4 2 4 7 10 31 24 14 5 9 8 21 12 4 Since, No Process arrives at time 0 hence; there will be an empty slot in the Gantt chart from time 0 to 1 (the time at which the first process arrives). According to the algorithm, the OS schedules the process which is having the lowest burst time among the available processes in the ready queue. Till now, we have only one process in the ready queue hence the scheduler will schedule this to the processor no matter what is its burst time. This will be executed till 8 units of time. Till then we have three more processes arrived in the ready queue hence the scheduler will choose the process with the lowest burst time. Among the processes given in the table, P3 will be executed next since it is having the lowest burst time among all the available processes. So that's how the procedure will go on in shortest job first (SJF) scheduling algorithm. Avg Waiting Time = 27/5 Next TopicPrediction of CPU Burst Time for a process in SJF

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