

How to fix memory full on android

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The processor is a critical part of any smartphone. All of the phone's components can be coordinated by the processor. Any application's performance is directly influenced by the performance of the Processor. For the camera, music player, game system, etc., the processor is critical. It resembles the brain in the human body. So it's a good idea to be familiar with your mobile processor and its features. Qualcomm, Samsung, Huawei, and MediaTek are the big names in smartphone processors. SOC Technology is now found in the majority of smartphones on the market. They are quite small. Qualcomm is the world's largest supplier of smartphone SOCs. SoC stands for System on Chip. Most smartphones use Soc Technology where all the complex IC that does major works are integrated into a single chip soldered onto the mainboard. Soc includes CPU, GPU, Image Processing Unit(ISP), Digital Signal Processing(DSP), Neutral Processing Unit(NPU), Memory, Video Encoder/Decoder, Modems, The benefit of SoC 1) Decrease Power Consumption 2) Increase Performance 3) Reduce Overall System Cost. From this article, you will completely identify your CPU and this helps to build your confidence while buying a phone and asking for the specifications. Before checking the mobile processor, it's better to have a few most important terms used in the processor industry. 1) Brand of the Processor On mobile phones, various brands of processors are available, but not all of them perform well. So, among the high-performance processor brands are Qualcomm, Samsung, Huawei, MediaTek, and HiSilicon. fig. Snapdragon CPU by Qualcomm According to nanoreview of July 2021, the best powerful processor according to a brand is as follows. In the second quarter of 2020, Qualcomm held 32 per cent of the global smartphone processor market share, with HiSilicon holding 22 per cent. Samsung employs both Qualcomm's Snapdragon and Samsung's Exynos processors (its own in-house product). Exynos appears to be faster for app loading, while Snapdragon appears to be faster for graphics loading. According to the Nano Review Website (a kind of raw benchmark), iPhone 13's A15 Bionic chip is considered to be high performing CPU for both single-threaded and multi-threaded tasks. Qualcomm's best processor includes Snapdragon 2, 4, 6, 7, 8 series, etc. Higher the value, latest the product, and higher the performance. 2) Architecture of the Processor Android supports 3 types of processors. a) ARM b) Intel (X86 and X64) c) MIPS iPhone supports an ARM-based architecture processor. Among all of these processors, ARM is widely regarded as the best processor architecture and the most widely used in the market. The system at Samsung Electronics creates ARM-based SOCs. 3) Processor Size Nowadays, mobile processors are available in nanometer (nm) sizes. A processor with a small footprint consumes less power and performs better. 7nm technology is the most recent high-end general processor size on the market. Some processors like the Apple A14 Bionic Chip, Apple A15 Bionic chip, Snapdragon 888, Snapdragon 888 Plus, Exynos 1080, Exynos 2100 and Exynos 2200 have been fabricated in 5nm technology. Smaller the processor size, the more transistors it can occupy in a given amount of area which typically means more tasks can be performed in the given time frame. The smaller the nanometer value for the same processor area, the more the transistor can adjust on it than the processor with a larger nanometer value. As a result, more tasks can be completed in the given time frame by using a processor with a smaller nanometer value. As a result, a 7nm A12 Bionic processor can adjust more transistors, allowing it to be faster and more power-efficient than a 16nm A10 Bionic processor. 4) Multiple Cores More the number of cores in the processor, the more stuff the processor can do in a given time. Single-Core Processor has one processor core. Dual-core processors have two processor cores. Quad-core processors have four processor cores. Octa-core processors have eight processor cores and soon Big Gaint company nowadays has an octa-core processor in the market. Don't Miss: Secret of CPU Hyperthreading in depth. 5) Clock Speed Clock Speed determines how quickly and efficiently the processor can retrieve and execute the instructions. Higher the clock speed, the faster the phone is. Current Mobile Phone speed comes in (megahertz)MHz or (Gegahertz)GHz value. Today's average best mobile processors have clock speeds ranging from 1.8 GHz to 2.8 GHz. 2 GHz seems to be high performing CPU for both single-threaded and multi-threaded tasks. It is available for android as well as iOS. If you are an android user you need Android version 2.2 and above. If you are an iOS user you need iOS 11.0 and above. One main con is it shows different brands and architectures. 6) Cache Memory Smartphone processors make use of cache memory. The CPU contains a small amount of high-speed memory known as cache memory. In order to speed up the retrieval of data from and to the processor, cache memory is used which is a type of volatile memory. As a result of its smaller size and higher price tag, this memory is less commonly used everywhere. It stores the majority of the data and instructions that the CPU stores. It serves as a buffer between the RAM and the processor. If the processor wants to process an instruction, it first looks in the cache and then requests it from RAM if it is not found. As a result, frequently used data is stored in cache memory to reduce the average time it takes to access data from the main memory. It has a high cache memory, which increases the hit ratio and improves processor performance because there is a greater chance of getting data in cache memory for a high cache memory-based processor. fig. Cache Memory Apple A15 Bionic Processor has an L3 Cache Memory of 8 MB. (source) Also Read: Why Smartphone slows down? How to Fix and Improve Speed? Ways of Checking Mobile Phone Processor. 1. Using Third-Party Software For getting detailed information about your processor and system, we recommend you use third-party software like CPUZ, Inware, Droid Hardware Info, My Device - Device Info, CPU Monitor, etc. 1 a) CPU - Z Mobile Apps CPU-Z is a free application created by CPUIID which provides reports including Soc Information: Cpu Architecture, no. of the core, clock speed, the clock speed of each core. Device Information: Device Model, Device Brand, RAM, Storage, screen size, and resolution. System Information, Android Version, Kernel Version, runtime environmen Battery Status, different types of sensor used. From the first Tab of the Above image We Find: CPU Brand and Manufacturer: Samsung CPU Type: Exynos Number of Core: 8 CPU Architecture: ARM Min - Max Clock Speed: 546 MHz - 1.59 GHz CPU Core (8 core) with frequency: CPU 0, CPU 1, CPU 2, CPU 3, CPU 4, CPU 5, CPU 6, CPU 7. There currently only 4 cores are active currently. You can look at the second and first Tab for knowing more about your system. It is available for android as well as iOS. If you are an android user you need Android version 2.2 and above. If you are an iOS user you need iOS 11.0 and above. One main con is it shows too many ads. 1 b) Using Droid Info Mobile Apps Droid Info is a free android hardware information app that provides detailed information about your mobile phone. It gives a device, system, memory, camera, temperature, battery, and sensor details. Features wise it has limited features than other popular app under the same category. 1 c) InWare Apps (2.62 MB) Don't Miss: Parts of Motherboard and its function 1 d) Tincore It provides information related to monitoring types (CPU usage, CPU frequency, ram usage, battery level) in an easy way, etc. 2. Using Mobile Phone Setting This is a tedious way but will work in Android: Goto Setting > About Phone, this will give you basic system information. There you will find "Model Name", just copy it and search in google for detailed information. In iPhone: Goto Setting > General > About, this will give you basic system information. There search "Model Name", just copy it and search in google for detailed information. 3. Using Cell Phone Case Box Suppose you are going to buy a phone then you can find the processor used in the phone in the case box. Only you have to know which is good and ok for you. 4. Using an Official Website You can obtain your smartphone's specifications by visiting its official website. Furthermore, if you simply search the model of your phone on the internet, Google will provide you with specification information. Frequently Asked Questions: a) Is my phone snapdragon or Exynos? Ans: Just download any one of above mention third-party tools like CPU-Z, Inware, Droid Info Mobile Apps, etc, and know your phone is snapdragon or Exynos. Samsung uses both of these processors. In Samsung Galaxy S10, Exynos 9820 is used, whereas, in Samsung Galaxy S10+, Qualcomm Snapdragon 855 is used. For the Asian market, Samsung largely used Exynos and for European and North American markets, Snapdragon is mostly used. b) Which is the best processor available in the market? Ans: In the current market, the A15 Bionic processor is considered to be the best Processor in both CPU and GPU performance. c) Is 2.6 GHz faster than a 2.3 GHz processor? Ans: Yes, a 2.6 GHz processor is faster than a 2.3 GHz processor. A 2.6 GHz processor can execute 2.6 billion instructions per second, whereas a 2.3 GHz processor can only execute 2.3 billion instructions per second. As a result, we can say that the higher the processor's gigahertz value, the better the processor. d) What causes your phone's and processor's performance to suffer? Ans: Dust, nearly full storage, malware app storage, and careless handling and usage are the cause of your smartphone's poor performance. When you wish the best method for Android repair, you can always look up to Dr. Fone - System Repair (Android). This software cannot only repair the Android system but also apps crashing and device stuck on logo issues as well. A single click can take care of all the Android problems, even the system update fails and bricked or unresponsive or dead screen. Program for 2-3x faster Android system repair Requires no technical skills to use it. It is premier repair software for Android available in the market. This one-click Android repair software is one of its kind. The software's success rate is pretty high. It can be said as one of the best Samsung mobile repair tools for its high compatibility. 3981454 people have downloaded it. Note: Fixing your device with Android repair software tends to cause data loss. So, we recommend you to back up your Android device and be on the safe side. Skipping the backup process might erase your vital Android device data. Phase 1: Connecting and preparing your Android device Step 1: After launching Dr. Fone on your computer, tap the "System Repair" button on the program interface. Now, get a USB and plug in your Android device to the PC. Step 2: Click on the "Android Repair" tab that can be seen on the left panel. Afterward, click the "Start" button. Step 3: Select your device-specific information from the device information window (name, brand, region). Agree with the warning by checking it and then tap "Next". Phase 2: Getting into "Download" mode for Android repair Step 1: Before starting the Android repair process, you got to enter the "Download" mode on your Android device. On a "Home" button equipped device - You need to switch off your device first. Then press and hold "Home" + "Volume Down" + "Power" buttons for about 10 seconds. Now, click the "Volume Up" button and enter the "Download" mode. If your device doesn't have the "Home" button - Turn it off and press "Bixby", "Power", "Volume Down" buttons simultaneously for 5 to 10 seconds. Free up the keys and hit the "Volume Up" button for entering the "Download" mode. Step 2: Now, download the firmware as the next step. For this, you have to tap the "Next" button. Step 3: When Dr. Fone verifies the software after downloading, it takes a little while to carry out the Android repair. This software is the ultimate one to resolve all Android issues.

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