

What is virtual RAM on smartphones? Is this the trend of the future?

Virtual RAM on smartphones, the term that first appeared on the Vivo X60 Pro was inspired by virtual RAM technology that was quite popular on PC / Laptop, specifically how, with TipsMake find out!

1. What is Virtual RAM?

Virtual RAM - Virtual RAM technology is a familiar concept in the PC / Laptop world, aiming to refer to the ability to expand the temporary memory (RAM) from the internal memory (HDD / SSD), thereby increasing operational efficiency as : limit lag, overflow, overheat, .



However, this technology is not highly effective when the lag situation still occurs if the total virtual storage capacity is too large (Total Virtual Memory) compared to the existing RAM capacity.

2. What is special about virtual RAM on smartphones?

Increasing use of heavy-duty applications and data storage requires hardware technology to evolve fast enough.



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However, developing a large amount of RAM inside a compact device like a smartphone is a fairly large technology barrier that takes time to resolve.

Therefore, to meet the needs of current use (March 2021), virtual RAM technology was born and if it works effectively on smartphones, it will be an inevitable technological trend of the future. hybrid.

3. How virtual RAM on smartphones works?

Similar to how it works on a PC / Laptop, this virtual RAM technology will still use the device's internal memory (specifically, the ROM on the smartphone) to expand the storage capacity of RAM.



Example: Vivo V20 has 8GB RAM and 128 ROM

Theoretically it is possible to expand the RAM up to: $8 + 128 = 136\text{GB}$, what a terrible number ?!

However, such expansion of full memory is not possible because there are many tasks that require a large ROM capacity to operate, so ideally you can expand between 3-10GB to ensure stable performance. between these 2 memories.

4. What problems can virtual RAM on smartphones solve?

Heavy gaming will result in less lag or splashing

A simple example, when you play a game (especially in total combat) with notifications or incoming calls, your device may lag, freeze for a while or even . crash the game, partly because RAM is filled up suddenly (overflowing RAM).



At this point, Virtual RAM will solve this situation very effectively, when adding to you more RAM large enough to prevent overflow of memory.

Works faster

Expanding the storage space for RAM also helps you speed up the device's operation, making the machine work faster, multitasking better.

The machine gets less hot and reduces hardware loss

Since the device's warming is mainly due to overload from the hardware, slightly reducing the operation of the RAM will help limit the overheating affecting the experience when in use and the negative impact on other hardware. .



Minimize lag, slow task over time

This situation is quite common on Android devices when slow, lag after a long time of use is very common, Virtual RAM will solve this situation when you can actively add more RAM for equipment over time to limit the impact of this age-old problem.



In general, Virtual RAM on smartphones, if working effectively on the first device, the upcoming Vivo X60 Pro, will be an explosive trend in the near future.

Personally, I also hope for this technology, as they will help most smartphone users today solve the problem of capacity, overheating, . and easily choose the right smartphone for themselves. Not limited by storage capacity.

Hopefully the article can help you better understand the Virtual RAM technology on smartphones. Good luck.

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