

AMD and Nvidia - who is the king of GPU dominance?

To choose who is the GPU king depends on the purpose of use.

The battle between graphics chip makers AMD and Nvidia has been going on for decades. Although in recent years, Nvidia seems to have taken advantage, but before deciding who will be the winner in the GPU graphics production battle, let's analyze the situation a bit.

Nvidia's latest chipsets are GeForce 10 chips. These graphics cards are built into GP100 series chips and delivered to customers called **GeForce GTX 1060, 1070, 1080 and 1080Ti, Titan Xp** . These are the first cards using Nvidia's new microarchitecture, codename Pascal, introduced 10 times faster than the old Maxwell architecture.

Pascal uses a new size (16nm FinFET) but has the basic design characteristics that are similar to Maxwell. Of course, it also has new features such as uniform memory, which helps developers to avoid chipset optimization, high bandwidth memory (HBM) that supports 1TB bandwidth and 16GB GDDR5X memory, along with NVLink helps speed up communication between 5 and 12 times compared to PCIe 3.0.

AMD has just launched a new line of graphics cards in early 2017: **the Radeon 500 series includes Radeon RX 550, 560, 570 and 580 using Polaris 20, 22 and 12 GPUs** . These cards are the fourth generation of GCN (Graphics Core Next) architecture that has been continuously upgraded since its release in 2011.



AMD Radeon RX 550 2GB graphics card

GCN uses both microarchitecture and script structure, which has been the basis for AMD cards since 2011. Polaris cards benefit from continuous GCN refinement, along with advanced production capabilities. more, giving faster clock speeds than previous generations. AMD is also pushing for a completely new microarchitecture called Vega, capable of competing with Nvidia's card, which dominates the gaming market.

Who is the king of the GPU?

Declaring who is the GPU king also depends on the intended use. If you are a gamer, Nvidia is currently ahead of AMD but in terms of computing power to dig virtual money like Ethereum digging, AMD is more powerful.

The reason lies in the design that GPU manufacturers choose. AMD aims to 'calculate' the market with suitable micro architectures and scripts for low-level computing but in return, it will not be strong when it comes to high rendering.

Nvidia's chipset currently dominates the gaming market but may be narrower as AMD releases Vega architecture behavior. Now, Pascal is still king. Looking at the top two cards of both companies, it is clear that Nvidia's GeForce GTX 1080Ti outperforms AMD's Radeon RX 580, even mid-range GPUs like the GTX 1070 also compete with RX 580.

In terms of price, AMD products have a more attractive price if you are more interested in price than power, compared to the GTX 1050 or 1050Ti, the RX 550 is still the winner. However, Nvidia's card is still more popular among gamers.



Playing the game must find Nvidia's GeForce GTX

In the world of virtual money training is different. As the Ethereum market has emerged recently, the demand for AMD's GPU has increased rapidly as many people dig up virtual money rushing to buy their cards.

Partly because AMD's reputation for computing power is always superior, partly because their cards perform tasks such as encryption, decoding data much faster than cards with the same parameters. by Nvidia. This is all

due to AMD's script structure and microarchitecture.

Conclude

Although it is impossible to conclude in the end who is the winner in the battle of graphics card production. But AMD and Nvidia, each has their own strengths in certain areas. While Nvidia dominates the gaming market, AMD's chips serve better when computing power is needed.

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