

10 Best GPU Benchmark Software

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In brief

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Wondering how well your computer's GPU is performing? While you build a new PC or upgrade your existing Graphics card, it is essential to test the speed and efficiency of your GPU. And it is where the GPU Benchmark Software comes in. Join us in this article as we explore the Top 10 GPU Benchmark Software. The article consists of software tools available online for free and for purchase both.

A GPU Benchmark Software is used to test and compare a GPU chipset's speed, performance, and efficiency. The test this software performs helps determine the capacity and extent to which you can utilize your hardware be it GPU Cycle, RAM, Processing throughput, or other GPU components.

Additionally, this listed benchmark software allows the users to check their computer's disk speed via caching options and file and block sizes. With all that said, let's start with the list of 10 Best GPU benchmark software in 2023. Then, moving forward, we will discuss said software, its popular features, and how capable they are.

1. 3DMark

3DMark is a popular GPU benchmarking tool and is thus at the first position in our list. This software is often used to test the graphic processing capabilities of computer systems by professionals. Its advanced benchmarking tests and features like Time Spy, Night Raid, Fire Strike, and Ray tracing effectively analyze the CPU and Graphic card's performance.

It allows users to monitor GPU and CPU temperatures, clock speeds, and frame rates. 3DMark enables custom settings to benchmark as per the user's needs. This GPU software comes in three different versions: a free basic/home edition, a paid Advanced edition, and a Professional edition. The 3DMark professional edition comes for business use. 3DMark is known for supporting Windows, Android, and iOS devices. It will automatically recommend a top-quality test for your system after a scan.

2. Heaven Benchmark

Heaven UNIGINE is another powerful benchmarking tool you can try. It tests your computer's GPU to its fullest potential. Users can easily test their graphics cards, cooling system, and power supply. The software has advanced features, including extended stress testing, benchmark reporting, and command-line automation. It performs heavy and prolonged stress tests for the graphics card. Heaven is undoubtedly an excellent tool that can measure stability accurately.

Besides that, it enables real-time scene rendering, stereo 3D, and multi-monitor configurations. However, it does not support the latest DirectX 12 cards due to limitations. Heaven Benchmark has free and paid Windows, macOS, and Linux versions. Overall, it is a reliable and efficient GPU testing and benchmarking tool.

3. AIDA64 Extreme

AIDA64 Extreme is a powerful GPU benchmark software offering comprehensive computer component information. This reliable tool analyzes the system's performance using over 50 pages of data on installed programs, software licenses, and hardware. The software provides detailed reports on the GPU temperature, stress testing, and potential hardware issues, informing you about your device's performance. The multi-threaded memory and cache feature allows you to analyze system RAM bandwidth with ease.

AIDA64 Extreme also has a customizable SensorPanel that displays information about sensors on your system. AIDA64 Extreme offers compatibility with all Windows versions. It can also save data in CSV, HTML, or XML formats. It comes with free trial versions. However, AIDA64 Extreme is a paid software.

4. Novabench

Novabench is another very popular GPU Benchmark software that is quick and easy to use. It offers detailed information about PC's performance within a few minutes. With its ability to check disk read and write, memory transfer speed, and troubleshoot and repair system issues, Novabench is a popular choice for IT enthusiasts and technical geeks.

What makes it popular is its ability to compare results online. With this feature, it lets users identify potential performance issues and thus optimize their system accordingly. Novabench also provides an instant comparison chart, easily viewing and analyzing the results. Its free version comes with a range of features. In contrast, the Novabench Pro version enables detailed performance monitoring and reporting features. Overall, it is a reliable and efficient GPU benchmark software.

5. PassMark

PassMark is a fruitful benchmarking tool and one of our favorite recommendations. It allows users to test and monitor their PC's detailed performance. Its features include comparing GPU, memory, and storage performance, customizing tests, and stress testing. It allows users to quickly test the speed of a 3D video card and check the disk's speed using cache options, file, and block sizes.

Besides that, it also measures the network speed between two computers using TCP/IP. This easy-to-use and quick benchmarking tool delivers accurate results. This software enables you to compare the performance of your PC to similar computers and offers a baseline database submitted by other people. It is compatible with Windows, Linux, MacOS, and Android platforms. It provides a free and paid version.

6. Speccy

Speccy is a popular GPU Benchmark software and an advanced system information tool. It gathers necessary PC information from RAM, CPU, motherboard, graphics card, network, and optical drives. It allows users to obtain a detailed rundown of every component. What makes Speccy a popular choice is its ability to display critical components. It does so with real-time temperatures enabling users to spot any problems before they occur.

Speccy allows users to save their scan results as snapshots, text files, or XML. Besides that, it is also a popular tool among PC gamers. It enables identifying all the system requirements needed to play games. This software provides all the hardware details, CPU temperature, RAM usage, and more. In addition, its search feature on the homepage finds anything quickly. This free and fast system information tool offers all the essential details for a smoothly running PC.

7. Geekbench

Geekbench is another very popular GPU Benchmarking software. This tool enables users to evaluate their PC's performance platforms like Windows, Linux, macOS, Android, and iOS. The device is absolutely free and supports single-core and multi-core processors' evaluation. It has usable features, including GPU benchmarking, image processing, and game testing.

Besides that, Geekbench also allows users to share their results online. This tool's ability to conduct tests for measuring machine learning and augmented reality makes it unique. It allows users to check their system's detailed performance results easily. Its Compute benchmark utility enables users to test their system's performance in gaming, video editing, and image processing.

8. MSI AfterBurner

A popular benchmark software, MSI AfterBurner, is useful for evaluating system performances. It also considers overclocking the graphics card. MSI AfterBurner is free and supports Windows operating systems from XP to the latest update. It is also compatible with AMD Radeon HD 2000, Nvidia Geforce 6, or the latest.

This software allows users to customize fan speeds, further enhancing the cooling performance. Besides that, it observes the performance of graphics cards in real-time with a transparent overlay while in-game. MSI AfterBurner is known for its stress test feature "MSI Kombustor." This feature checks the performance of overclocked graphics cards. The software is a well-known and trusted brand available now and thus is a very reliable choice.

9. Cinebench

Cinebench is a free benchmarking software. This reliable tool for evaluating the capabilities of PC's processor and graphics cards has been in the market for a long now. Cinebench is a user-friendly benchmark software to check how your PC is running and see if any performance issues need fixing. The tool is designed for CPU benchmarking; however, it is also an excellent GPU testing tool.

It offers three tests to check GPU performance which is impressive. Its real-world benchmarking sets are unique and better than other benchmarking apps. Cinebench can render images and contrast them with various "real-world" operations. This is undoubtedly a very unique and impressive feature. While compared to other GPU benchmarking software, Cinebench uses far more extensive and intricate test scenes.

10. FurMark

Last but not least on our list is FurMark. This GPU benchmarking software is known for stress-tests graphics cards and monitoring GPU temperature. It uses a rendering method to measure GPU efficiency and for video card benchmarks. It is a free-to-use software however is only available on Windows platforms. It is famous for its user-friendly interface and customizable testing performance.

The software comes in two modes: full-screen and windowed. It enables stability and stress testing of graphics cards. Besides that, it also offers information on the GPU core clock, temperature, load, memory clock, and more. Users can generate a benchmark score and check the system's performance. This lightweight and simple GPU stress-testing tool is quite useful.

Wrapping Up

All in all, these are the 10 best GPU benchmark software that you can use to test your graphics card's performance and compare it to others. Whether you're a gamer or a professional, these tools can help you get the most out of your hardware. In addition, these benchmarks may help you detect any issues with your GPU and ensure that you are getting optimal performance.