

What is GPU stress testing?

Most of us have probably heard the term GPU Stress Test at least once, but not everyone knows what it refers to. So, to find the answer, please continue reading this article from TipsMake.

What is GPU stress testing? How do you perform stress testing? What software do you use to perform GPU stress testing? All these questions will be answered in the article below.



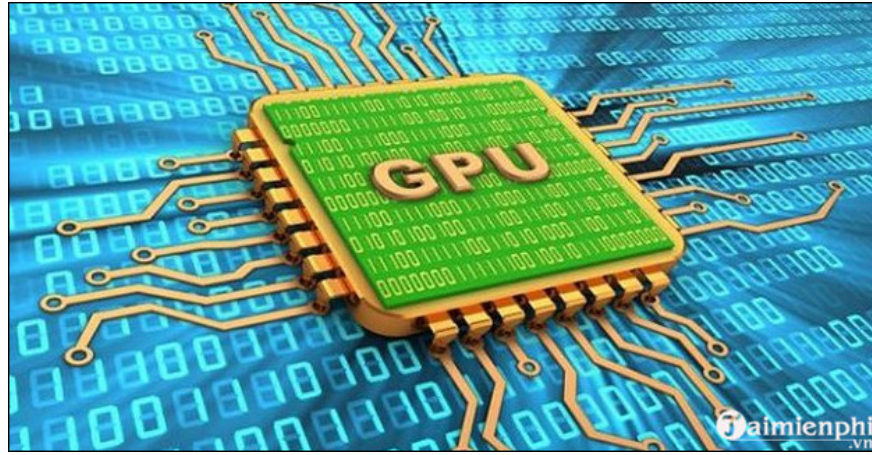
The concept of GPU stress testing.

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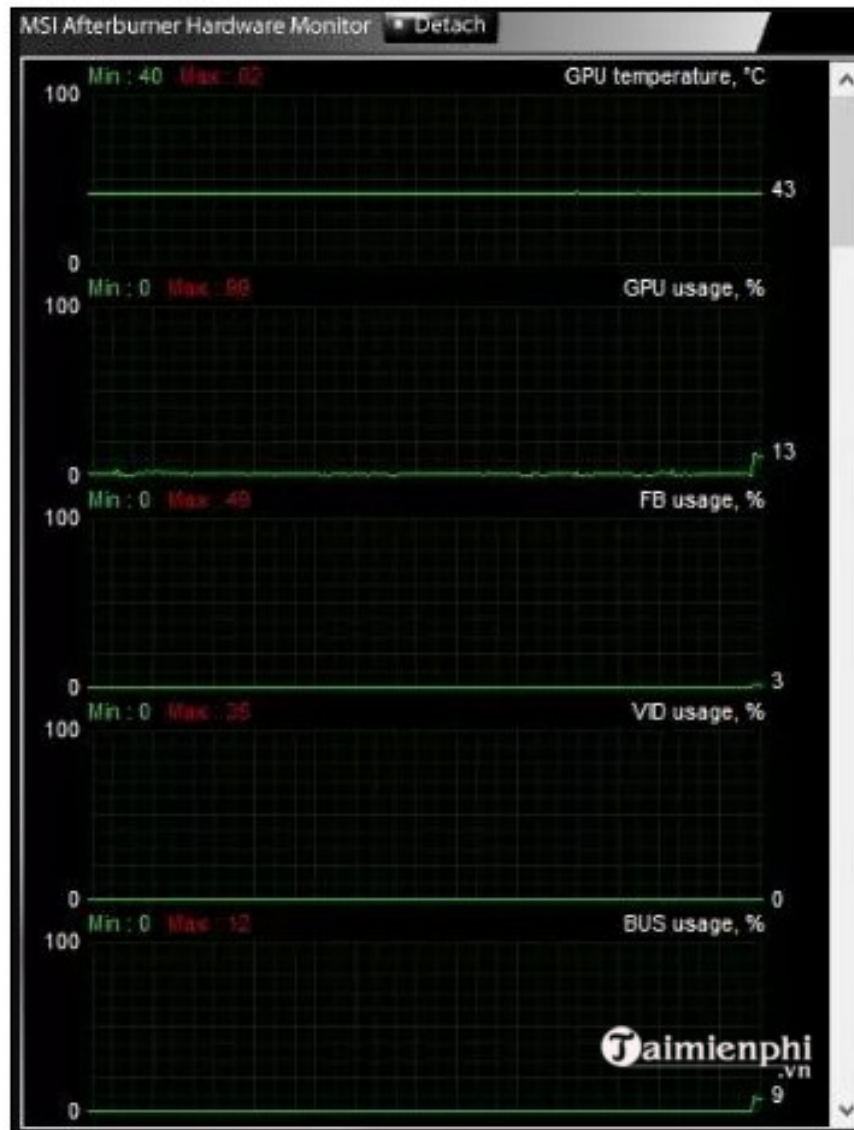
- 1. What is GPU stress testing?**
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GPU stress testing is simply a test to evaluate the stability and "endurance" of a graphics card. This process is performed through specialized applications, and involves continuous testing at the highest load until the system freezes or even overheats.



Besides the GPU, you can also perform stress tests to check other hardware and computer configurations such as the CPU or RAM.

Ideally, you should use an overclocking application, such as MSI Afterburner, to monitor temperatures during stress testing. This is to avoid potential risks, as GPU temperatures exceeding acceptable levels for extended periods could damage your graphics card.



Download and install MSI Afterburner from [here](#).

Download MSI Afterburner

How to perform GPU stress testing

Note: Sometimes errors or problems may occur during the process, which could affect your system. Therefore, TipsMake recommends that you consider carefully before starting.

Step 1: Overclocking

The first step is to perform overclocking. If you simply want to check the performance or stability of your GPU, you can skip this step.

Step 2: Close all unnecessary applications

Next, close all unnecessary applications that are open on your PC to perform the stress test effectively and avoid the worst-case scenario of damaging your system. This is because applications like YouTube, Netflix, or even Chrome consume a lot of GPU resources. Only open the overclocking software.

Step 3 : Perform the stress test

Open the stress test application you installed on your computer and click Run to begin.

If using Unigine, it's best to run the application in full-screen mode at its native resolution, and don't forget to monitor parameters such as temperature and GPU usage.

Download and install Unigine here.

Download Unigine Suite

Step 4: Select an Option.

In this step, your task is to choose how long you want to test your graphics card.

Note: Only use FurMark for basic tests, as this application runs for a long time and can damage the GPU. It's best to use Unigine for GPU stress tests.

There are three options you can choose from:

- Basic Stability: minutes.

Perform a basic test. Applications like FurMark, Heaven, and Superposition will freeze if overclocking is unstable or if there are cooling system issues after 30 minutes of testing.

- Great Stability: hours.

To ensure the graphics card remains stable during extended gaming sessions (3-5 hours), ideally, perform a 1-hour stress test.

- Guaranteed Stability: hours.

Unigine will automatically repeat the tests over extended periods to assess the highest level of system stability.

Furmark

's advantages include a simple, user-friendly interface, making it ideal for testing GPU stability under normal conditions and during overclocking.

Furthermore, this free software is frequently updated and supports benchmark/stress tests for the latest generation GPUs.

Download and install Furmark here.

Download Furmark

Unigine Heaven

is best suited for testing the performance and stability of GPUs when handling demanding graphics. It's a reliable performance testing tool for comparing the performance of newer and older generation GPUs based on benchmark scores and operational stability.

Download and install Unigine Heaven here.

Download Unigine Heaven

Unigine Superposition

is best suited for testing next-generation GPUs and virtual reality (VR) devices.

In fact, it's an upgraded version of Unigine Heaven. While the interface isn't as visually appealing as Unigine Heaven, Unigine Superposition offers many more advanced features.

Download and install Unigine Superposition here.

Download Superposition

By now, you probably understand what GPU stress testing is and what to keep in mind when performing it.

Additionally, if you have any further questions or need clarification, please leave your comments in the section below the article.

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