

# How to overclock GPU to optimize computer performance

Overclocking your GPU is a popular way to increase the performance of your graphics card, increasing the speed of image and video processing. This article will guide you in detail on how to do it.

Overclocking your GPU improves processing speed, providing a smoother gaming experience, and improving performance with specialized graphics software. However, this process also comes with some risks if not done properly.

## Prepare before overclocking GPU

### 1. Determine the specifications

First, you need to determine the specifications of the GPU. To do this, you can use Speccy software to check the specifications of the graphics card.

=> Download **Speccy** to your computer here.

### 2. Update GPU driver

Once you have determined your specifications, you will need to update your GPU drivers. Depending on the graphics card you are using, you can choose one of the following software:

- Use **GeForce Experience** for Nvidia GPUs.
- Use **AMD Driver Autodetect** for AMD GPUs.

## GPU Overclocking Guide

Parameters:

- **Core Voltage** : This parameter measures the GPU voltage. Increase this value before overclocking, it can be increased to the maximum level, as long as the PSU (computer power supply) is capable of handling it.

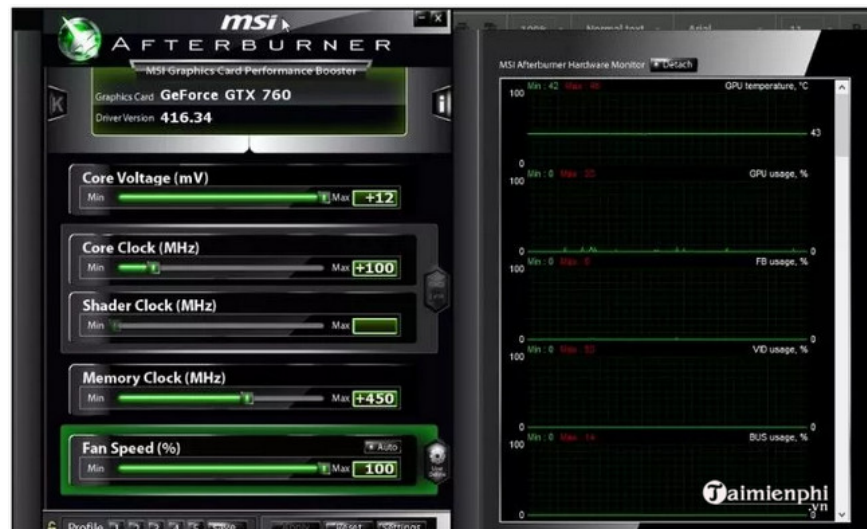
If the initial GPU voltage is close to the maximum PSU voltage, it's time to replace the power supply with a larger capacity.

- **Core / Shader Clock**: These parameters are often linked together, affecting system performance. TipsMake recommends that you adjust this parameter after overclocking to +25.
- **Memory Clock**: Each adjustment increases the value by +50 until the system starts to have problems, and do it before the core clock.
- **Fan Speed**: Finally, adjust the fan speed. You can customize the Fan Speed ??on the Afterburner software by

clicking the **Auto** button.

Finally click **Save** and save as **Profile 1** . In case something goes wrong, you can go back and adjust the values.

Overclock, then click **Save** and save as **Profile 2**. Do not close Afterburner yet and continue overclocking.



## GPU Overclocking Test

There are two ways to test GPU overclocking, the first is to stress test the GPU and see what happens. The other is to try to start a game and see if there are any problems, if the game runs smoothly on the system.



If your system is unstable after overclocking, you can reduce the Core Voltage and Memory Clock values ??until your computer is stable. Then, adjust the parameters step by step to find the optimal GPU overclocking configuration.

Don't forget that overclocking isn't just limited to the GPU. You can also try overclocking your computer's RAM to improve overall system performance, helping your computer handle tasks faster.

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