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In this detailed guide, we will teach you how to safely overclock your graphics card. Also, if you don't have any experience overclocking a GPU this guide will help you achieve a stable overclocking without worrying about anything. It doesn't matter if you have an Nvidia GTX 1080 or RTX 2080 or AMD RX 590 or a Radeon 5700XT you might want to explore and push the graphics card to see the upper limit. Also, don't forget that most modern graphics cards come with Auto OC and automatically improve performance and clock speed without the need to push them. However, this guide is for manual overclocking and if you want to push beyond what the manufacturer does in terms of OC settings on your graphics card. The base card for overclocking stays the same regardless of age. Can you get this additional 10 FPS from your favorite GTA 5 or Assassin's Creed Rogue or Unity? If you're a beginner for overclocking you'll love this guide and if you already have a applied experience you can read advanced overclocking tips and browse the Game Criteria. Need to Overclock First. Why do you want to overclock? Are you struggling with the latest game titles or want to see the maximum potential of the graphics card? You can start speeding effortlessly by following the instructions shared below. In my case, I would like to see the potential for any real need rather than card overclocking. Overclocking pros: Get additional FPS in game games. You can enjoy higher graphics settings. You may be able to run games that you struggle to play otherwise. Get maximum value from the video card you paid for. (95% to 15% increase in performance.) Overclocking Cons: Gaming PC and Room.Risk overheating damage to the graphics card. Reduce the Lifetime of a graphics card. Increased noise levels and heat. Is Overclocking Safe - Yes it doesn't go as crazy and in this article Card.In Graphics push the boundaries, I will overclock the 6GB version of the new Nvidia GTX 1060 to get a maximum over an old AMD Radeon HD 7950 and also see performance improvements. There are many Software that you can use to overclock the graphics card. I want to use MSI afterburner for Nvidia Graphics cards and I also have a Sapphire AMD Radeon card that overclocks using saphire Trixx software. You can also use the MSI afterburner to overclock AMD Radeon Graphics cards. This Guide was originally written by me in 2015 and then in June 2020, I have made updates and changes. In fact, it doesn't matter, both AMD and Nvidia graphics card can use the MSI burner for overclocking. Test Setup Game PC ConfigurationProcessor - Intel Core i5 3570k. Motherboard - Z77 Asrock Extreme 6.Graphics Card - Sapphir AMD HD 7950 OC version. Operating System - Windows clock 850 MHz.Boost Clock 925 MHz.RAM - Corsair Vengeance 8 GB. Cabinet - HAF 912.Monitor - Dell S2240 LHard Drive - Seagate Barracuda 7200 RPM. Processor - Intel Core i7 6700k. Motherboard - Gigabyte Game 7 - Z390. Graphics Card - Nvidia GTX 1060.Base clock 850 Mhz.Boost Clock 925 Mhz.Operating System - Windows 10RAM - G.Skill 3200 MHz DDR4 Ram.Cabinet - HAF 912.Monitor - Dell S440 LSSD - Samsung 860 Evo.Software Required AMD or Nvidia Graphics CardOkay Overclock how, It is a good idea to do a few things before moving on to graphics card overclocking: Update the latest graphics card driver as it can offer you a support of performance. Update Windows to run in the latest version. If you haven't done so in the last 1 year, take your graphics card from the case and clean it. So once you've done it above, download the MSI afterburner and GPU-Z and other Software I mentioned above. Gpu-Z Software You can review all the details of your GPU-Z Graphics Card, such as Technology and Model Size, Shaders, Data Day width, GPU Core Time, Memory Time, and Temperatures. You can create a test log that you did during overclocking and review it later. MSI AfterBurnerMSI Afterburner offers a range of features and has a good display and can measure temperature and GPU usage in real time. Sapphire Trixx - Simple Tool for Overclocking, simple and very easy to use, gives information about graphics card. In the second image you can control the variables that need to be tweaked for Overclocking.Overclocking VariablesGPU Clock or Core Clock.Memory ClockVDDC - VoltageBoard Power Li or Power Pull - (Not visible in the picture). How to Overclock AMD or Nvidia Graphics Card - A Beginners Guide, How To Use Overclocking Step by StepMethod - Allows you to start overclocking your graphics card after downloading all the software. We'll do it here with Sapphire trixx if you can use other software like AMD OverDrive, ASUS GPU Tweak, EVGA Precision X, or even MSI Afterburner. First, we'll learn how to overest the GPU Memory clock and the GPU Core watch separately. And then the stock voltage and Power. This is a safe procedure that you'll understand together. Overclocking both GPU and Memory Clock and it all comes with a sculptural warning that it doesn't hurt the graphics card on your possible hood but does it at your own risk of overclocking. I have overclocked many times so far no hardware errors, freeze some system and restart mostly. Nvidia GTX 760Note - Always watch the temperature of the Graphics Card and if the temperature passes 80 degreesC, it is recommended that you exit the Benchmark test. I usually want to keep some old graphics cards under hot run at 75 degrees C.And i won't recommend you to OC in case you're seeing temperatures above 80 degrees with stock clock speeds. We'll Do It First Memory Setting Then Core Clock.Increase Power Draw or Board Power Li to 15% and start testing. How stepopen sapphir trixx.move memory slider up to 50 MHz using the mouse by Memory Clock Step Overclocking. Apply the setting. Turn on FurMark and run your preferred benchmark pre-setting. If you run 1080p preset here, you can also preset 720p depending on the monitor resolution. If your system passes, increase the frequency on the slider by 50MHz. Re-apply and run FurMark. Repeat until your system fails or collapses or freezes the benchmark test. Use the slider to drop 25 MHz in the last used setting. Run the criterion again to check if the system is working well and if you're experiencing any freeze. Even if your system freezes or Trixx changes back to the default settings, don't worry about damaging the system. Core Clock Step Overclocking by StepOpen Sapphire Trixx Software.Increase how to increase clock speed by moving the slider to the right or manually increasing the clock speed with a range of 20 MHz.Apply. Turn on FurMark and run the benchmark pre-setting that you previously selected. You may also want to pinch the fan profile to increase cooling. If your Gaming PC passes the benchmark increase hours with another 20 points. Re-apply and run FurMark. Repeat until your system fails or collapses or freezes the benchmark test. Use the slider to drop 10MHz in the last used setting. To check stability status, run the criterion again, and if you have a fixed note at the highest clock frequency, you can run your graphics card with stock voltage and power adjustment. Run the Unigine's Heaven benchmark and see if you are experiencing artifacts or freezes. It's good to go if it works perfectly. Overclocking both the GPU Core Clock and memory clock In the test above, we find the highest level your graphics card can go with the default voltage and Power Draw Settings. Next, you'll find the highest Core Clock frequency and Memory Time Frequency for the Graphics Card.Now we'll do an overclocking for both at the same time. In particular, we can get a lower number for both settings when overclocking at the same time. Most is not possible The maximum core frequency and the maximum memory frequency achieved separately to be stable at the same time, but we try and get as close as possible. Move the slider to the open Sapphire Trixx.Move gpu core clock for 50 MHz below what it previously achieved. For the GPU memory clock, move the slider to 100 MHz from what you previously obtained. Apply the setting. Turn on FurMark and run your preferred benchmark pre-setting. If you run 1080p preset here, you can also preset 720p depending on the monitor resolution. If your system passes, increase the core clock frequency by 30 MHz and memory frequency by 50 MHz. Re-apply and run FurMark. Repeat until your system fails or collapses or freezes the benchmark test. Drop back by 30 and memory clock frequency of 50 MHz.Run the benchmark again to check whether the system is working well and you are experiencing any build or benchmark freeze. Run the Unigine's Heaven benchmark and see if you are experiencing artifacts or freezes. It's good to go if it works perfectly. It is stable overclocking for graphics card at stock voltage and Power Pull. This Overclocking was the basics for discovering the next Advanced Overclocking.Also, if you haven't done graphics driver update - please do it first. There's a huge increase of over 20% with the GPU Driver update (read here). Advanced Overclocking is what overclocking is now and how you can do it may have gained some experience. The next step is to move into real overclocking. Here it is better to test the graphics card with basic overclocking for a period of time that will improve the core voltage settings for PowerDraw as well as Card.It before attempting to play with power and voltage settings to improve game performance. In addition, video card manufacturers are implementing security measures to prevent users from easily damaging video cards. Some recent Nvidia graphics cards have a fixed upper limit for voltage and clock speed so you may not be able to push this beyond a certain point. In addition, security networks such as the use of dynamic clock speeds and GPU throttling have made overclocking safer and more accessible to the average user. Comprehension Voltage or VDCC & Board Power Settings The power setting increases the TDP limit so that the card does not shrink thermally when it reaches the power consumption limit. Where Watt = Voltage x Amperage Watt is the total power, voltage is the potential difference (electric voltage), or the potential for current and amperage is the measure of actual current, so increased voltage increases the amount of potential power a GPU can draw. In this section, we will increase the Power Limit using Sapphire Trixx Software. For MSI afterburner, you may have to unlock the voltage multiplier to multiply the settings There is no need to change the voltage settings for most modern graphics cards such as Nvidia GTX 1660, 1650 or RTX 2060, 2070, 2080 or AMD 5500, 5600 or 5600 XT just to increase the power draw and it will be fine. There's no point in mixing voltage settings for a small increase in performance. Step-by-Step Guide to Overclocking Within LimitsSapphire Trixx.Move the slider for GPU Core watch to the maximum achieved. For the GPU memory clock, move the slider to the maximum time you get. 20.Apply setting increase The Power Li or Power Draw installed in the case of Afterburner. Turn on FurMark and run your preferred benchmark pre-setting. I can preset 720p, depending on the monitor resolution, run preset to 1080p. If your system passes, increase the core clock frequency by 30 MHz and memory frequency by 50 MHz. Re-apply and run FurMark. Repeat until your system fails or collapses or freezes the benchmark test. Run the criterion again to check if the system is working well and if you are not freezing in any build or benchmarking. Run the Unigine's Heaven benchmark and see if you are experiencing artifacts or freezes. It's good to go if it works perfectly. This is stable overclocking for the graphics card. To go beyond that you can increase the VDCC (increased voltage is not recommended for beginners - just do it if you know what you're doing) 5 with a very small interval and increase the core clock and memory clock. Look at your graphics card in the forums and try to stay within the limits of overclocking to see what people are safely trying to achieve. Your goal is to get the maximum advantage from your card by not going to burn and buy a new one. The advantage of getting a secure overclocking app, 4-5 FPS extra beyond the secure Limit, does not outweigh the risk of reducing and damaging the life span of your graphics card. These results were absolute monsters for my old AMD Radeon HD 7950 graphics card, when it came to some OC of AMD graphics cards. Modern cards are already overclocked by manufacturers and are mostly running at the highest level, however, you may still be able to achieve more than 5-8% gain in performance. Game Criteria Overclock Vs Stock Graphics Card Gaming Performance Stock Vs Overclocked Graphics Card: FPS Gain Stock GPU Core Clock Compared to 850 & Memory Clock 1250 Vs GPU Core Clock 1120 Mem Clock 1475 Power Draw 17% & VDCC +15. WE BF3 Avg FPS 34%, Need for Speed Most wanted 12 Avg 27% increase. FPS, Crysis 3.Gaming performance Earnings up 16% - BF3 – 1080p 4x ultra Min Max Avg2 34% 32% Gaming performance Gain – NFSMW 1080p all ultra Min Max Avg 28%2%27 Gaming performance Gain – Crysis3 Fxa and ultra Min Max Avg17%6119%16 Overclock Load and No Load – Temperatures GPU Core ClockGPU Temp No LoadGPU Temp Load Clock 850 Mem Clock 1250 PD 0%41%C66 MaxCore Clock 925 Mem Clock 1250 PD 0%40%C67 MaxCore Clock 925 Mem Clock 1250 Pd 12%42%C67 MaxCore Clock 1001 Mem Clock 1450 PD 16%43%0 43%43%43 C70 MaxCore Clock 1050 Mem Clock 1500 PD 18%43%C71 MaxCore Clock 1120 Mem Clock 1475 PD 17% VDCC +1542%C73 MaxWe And HD 7950 mid-level Graphics Card given as these criteria and test configuration Article.Furmark At the beginning of bench Mark Results I'll try to add a little more results to the GTX 1060 I'm testing in the coming days in this guide - let me know in the comments below if you have any questions. Conclusion Thoughts: How much graphics card should you push? Is it worth it? If you ask me, you're going to have to overclock moderately. Beyond a limit, the fan and the sound of heat are too much and disturb during the game. Also, most of the modern graphics cards are well tuned and have been overclocked with OEM's and OC with very little in earnings but if you want to try and have some fun, go ahead and play with it. Try overclocking and don't share with us the results or problems you've encountered. We haven't pushed the graphics card to the very limit (it's not an overclocking competition), and I'm not using an after-sales cooler. Finally, if you are still experiencing performance problems with the Graphics card - I wrote this very useful 9 Tips That You Can Use to Improve Graphics Card Performance. Related Articles: Best Gaming PC for Rs. 40000, Best Gaming PC Configuration for Rs. 50000 Best Gaming PC configuration 70000. 70000.

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