X299 ram overclocking guide

Locking RAM is vital for PC Enthusiast and gamers. You can't use your expensive RAM properly without dispersing it. But you may be surprised: Yes, it definitely does, and I'll explain it later. You may be very confused about the crackdown. After reading this epic DDR4 RAM crackdown guide, it will only take you 5 minutes to do the job! In this tutorial I'll show you the easiest way on how to accelerate DDR4 RAM at the right speed. And I'll also tell you if the ram crackdown is worth it or not. I have all your questions answered. So relax and let's get started. At the end of this post, I'll tell you the pros and cons of OVERclocking RAM.Why Overclock RAM? RAM is being sold at different speeds/frequencies. But you don't get that default speed of configurations. If you check the RAM speed you will see that RAM is locked on a certain frequency.it not fully use this speed. To increase this speed you need to disperse the ram. There are many advantages to dispersing RAM. Some of the advantages of more FPS (frames per second) in games are more stable while multitasking, etc. All you do is make sure your PSU is enough to break up. If you don't know anything about power supplying your computer, then check our post on what power I have. What's better? Faster RAM or more RAM? This is the most common problem faced by a RAM buyer before buying RAM. But the answer to this question actually depends on many factors. If you have a good budget, then buy a ram at a greater rate. Or else, buy a less rated speed ram with a memory I discussed right above. If you're a normal user 8GB of RAM is enough for you right now. On the other hand, if you're doing occasional heavy tasks on your computer, for example: You open a lot of tabs in your internet browser, or you play hardcore games on your computer, etc., then 16GB is good for you. Again, if you stream games online or you're editing and other heavy tasks on your computer, then you can even save more RAM. So if you can buy RAM with this enough memory I recommend you take RAM sticks for more speed. also check how to fix annoying DISM errors. On the other hand, if you are not able to buy so much memory, then I recommend you get more ram at a slower rate. Have you ever played Minecraft online? It's really fun. But Minecraft shows bugs if your computer isn't optimized or given perfect settings. Pro tip: Step up your shooting skills in FPS games, Accelerating the mouse and more. Two things to provide before dispersing the RAMOne thing you should keep in mind that: If you have a acceleration of your CPU by increasing its base hours, your RAM will also get a bit of a acceleration. So in this case you'll have to change memory voltage, frequency and timing for better performance. If you play Rolox, then I have some good news for you. Check Check Out our separate post on how to change fonts and text color in Roblox.Before continue, you have to make sure of two things. As a guarantee, you need to ensure the current speed of RAM and the appropriate frequency. And here's how you're going to check out both of these... 1. Check the current RAM SpeedTo acceleration of RAM, first of all you need to check the current speed of RAM. To do this, you just need to open the task manager, correctly clicking on the taskbar. Then you need to move on to the performance tab. There you'll find another memory tab. Click on this and you'll be able to see the current speed of memory modules (RAM). You can also check the RAM speed with the CPU-I app. To calculate the RAM speed in the CPU-I app, you'll have to double the DRAM shown in the app. If the DRAM shown in the application is 1600 MHz, the total RAM speed is 3200 MHz, i.e. 1600 X 2 and 3200 MHz.2. Determining the appropriate frequency/speed for your RAM to disperse RAM, the most confusing part is to know about the speed you need to disperse RAM. All DDR4 RAM is locked at 2133Mhz.But most RAM is sold at different speeds like 2400 MHz, 2666 MHz, 3000 MHz, 3200 MHz, 4000 MHz, 4000 MHz etc. You can even disperse RAM at a speed greater than the nominal speed of RAM. The nominal speed on the body of RAM is the highest stable speed certified by RAM. The easiest way to choose RAM speed is to choose a RAM speed less than or equal to a par speed. In addition, you can check other speeds by overthusing your PC after saving settings and running some heavy apps such as tests. Pro review: Here's how to get a full free netflix discount. Jargon You should know before breaking up there are some terms that you may not have heard of before. But you have to understand this thing now, otherwise, your experience of dispersal will be incomplete. RAS - CAS: RAS stands for Line Access Strobe and CAS means Column Access Strobe in Memory Modules. RAS delay in CAS: the time taken to line up the RAS and CAS in memory. CAS delay: the time between requesting the data processor and sending RAM. Active for pre-delayed charge: time taken to access memory. It is also known as tRASRAS Pre-charging: the time it takes to disable a single RAS line and active adjacent. It is also known as rTP. Apply to bios KEY ASUS Motherboards XMP/ F2 MOTHERboards XMP Guide / Del GIGABYTE Motherboards XMP Guide / Del Others Supprted XMP Only F2/Del There is no software specific solution to disperse RAM. Basically, there are two ways to break up memory modules. This is through XMP and custom acceleration. XMP (Extreme Memory Profiles) is a list of preset profiles that automatically disperse memory modules. but there are some problems with it which I I explain later. Thus, the best way is a custom method of dispersing RAM. In this method, you can set the speed, hours and voltages to suit your needs. Also, check out our in-depth review on the aura of synchronization compatible Bitfenix Enso.How to break up ram DDR4 using custom settingsI think you'll agree with me when I say: A little more effort is better with big losses. And yes, custom acceleration is the safest way to disperse RAM, as here you can set settings according to your computer's capabilities. Here are the steps to crack down on various poupluar motherboards: Overclock RAM on ASUS MotherboardsHere on how to disperse RAM on the ASUS motherboard: Open the bios menu by pressing the F2 or Del button when starting or restarting the PC. Go into promotion mode. Select the AI Tweaker/Overclocking tab. Select AI Overclocking Tuner's Guide/XMP (Extreme Memory Profile) After that you'll see DRAM frequency options where you can adjust the speed. Then restart the computer by selecting the Save and Exit option (F10 for most motherboards). What about Ryzen ram overclockers? How to disperse the ram ddr4 ryzen? The simple answer, just as it is discussed in steps above.also check out the cool trick on how to play music through Mic.DDR4 RAM Acceleration on MSI MotherboardsMsi overclock is very popular because its BIOS is user-friendly. MSI bios crackdown is easier than others because of the msi motherboard dispersal software. How is OC RAM on msI's motherboard? Here are the steps to crack down on the MSI motherboard: Open the biography menu by clicking the F2 or Del button when you start or restart your PC. Click on the OC tab and you'll find XMP (which will automatically disperse RAM at basically the highest frequency). If you turn it off, you'll be in manual mode. In manual control/disconnected Xmp, you'll be able to set the speed from the DRAM Adjust option. Then restart the computer by selecting the Save and Exit option (F10 for most motherboards). How to accelerate RAM on GIGABYTE Motherboards Steps to speed up RAM on a gigabyte of motherboards are below: Open the bios menu by pressing the F2 or Del button when you start or restart your PC. In the biography you will find the M.I.T tab where you can disperse your system. You just need to select XMP and press the I button to change the it.to manual control mode, you turn off the manual mode. You can then select the memory frequency (MHz) and press the I button to adjust the frequency. The DDR4 RAM acceleration from the XMP XMP is Intel's technology. And it allows users to disperse their RAM very easily. This is Select multiple memory options simply by selecting a different profile. Now I'll be discussing how to disperse RAM using XMP's asus, MSI, motherboards. In the biography of the motherboard you will find XMP (if supported) and you will need to include include dispersal of your RAM. XMP in most cases have variants of 1-3 profiles to choose from. You just need to choose the desired profile and restart the computer to experience the new speed of RAM. One thing you should know is that: your computer power or RAM may not do well with the speed given by XMP. Several times you can even burn RAM too for this reason. thus, there is a risk of using the XMP profile. If you use XMP and you are unsure of the power required for this speed and the capabilities of your RAM. The XMP is only for high-end RAM power high-end powerDDR4 RAM Overclocking BenchmarksHere some tables that will give you a clear idea of FPS in some games with different RAM speeds. (Configuration of my PC for this test i5 8600k, z370 motherboard, GTX 1080, 16GB 3200Mhz RAM and having good air ventilation, you can get these games from the steam library) Apex Legends:RAM speed213324002666630003200FPS25385300303315PUBG:RAM speed213332244002666300003000300FPS777779808FORTNITE:RAM speed213333224240002000200200072903063123 18DOOM Perpetual:RAM speed213332400266300032 00FPS90949798103GTA V:RAM speed213333224000266300030032 00FP111111112330 Surveillance of this chart you can say clearly, RAM speed matters. THE speed of RAM has a big impact in your gaming performance. Another thing that confuses a new RAM buyer is which one to buy? ram with more speed or more memory RAM stick with less speed. Remember that ram overclocker is always a PC enthusiast as he always wants to get the best out of his computer. Memory acceleration is a must for all PC gamers. Gamers often use ram dispersal software to disperse RAM. but it's safer to disperse the ram by the methods that we showed in this post. Pro tip: AIO liquid coolers like the Cooler Master ML240R saves your ram from the heat of your processor and thus increases overall PC performance. Is RAM breaking up worth it? You've already tested the game's variety tests for different types of RAM speed. Higher RAM speed will also give you better performance while browsing the web and other intensive Ram tasks, such as repetitive video rendering calculations, and launching different applications. There are many people who buy expensive PC parts and play games without dispersing RAM modules. It doesn't make them to enjoy the full experience of their gaming PC. Basically normal low RAM prices can't be overclocked much. The main motherboards are also not able to disperse RAM. people having a system like that ram crackdown is not worth it. Expensive RAM is made mostly for this high speed. Thus, expensive buyers of RAM need to disperse that RAM to use its speed. The best RAM speed can tremendously update the performance of your gaming PC, and it can provide you with a good gaming experience. This way you can be sure that your RAM acceleration will be worth it if you are working a dispersal type for suitable RAM to disperse? Recently, G.skill released its royal series of Trident memory modules, which can be accelerated to 4600 MHz (rated). Memory locking problems and their solutions are risks in any process of dispersing PC components. So you will need to disperse RAM carefully. After the acceleration you can find problems such as: Blue screen death, restart/ shutdown of PC automatically, PC is not turned on properly, etc. If you encounter such problems, then you can be sure that locking the frequency of your RAM is not suitable for your computer. So you have to change the frequency again by the same method in a safe and stable condition. If you're faced with a 0x0001 bug when you open the Geforce Experience, here's a fix. NOTE: You need to disperse RAM between the default speed rate and set the voltage accordingly or you can fry the RAM. I recommend you not to use excessive stress. Also, if your RGB sync software isn't working properly after the crackdown you can check out this guide to fixing asus aura of synchronization. The pros and cons of breaking up MemoryRAM has some drawbacks too, instead of having such great advantages. So, here are some pros and cons of RAM acceleration: the speed of RAM is used. RAM is more expensive for this more speed. thus, it can be said that the money is being used to the fullest. RAM can be accelerating more than nominal speed if it is perfectly done. This simple task can increase your computer's performance to a large extent. Sometimes RAM get fried if they disperse in the wrong direction. Blocking RAM can significantly shorten the lifespan of memory modules if the thermal sinks are not suitable. Locking RAM is not worth it if you use a bad end system with good RAM. The frequently asked questions Are the common questions I've basically asked about the RAM dispersal guide: The question: Will two RAMs of different brands and speed work normally? Answer: Yes, two RAMS of different speeds and brands will work.but it is not recommended to use as you can get into trouble as the blue screen is death and the PC automatically restart after download. Before buying RAM, you should keep in mind that the RAM of various form factors (DDR2, DDR3, DDR4, etc.) will not work at all. In the case of dispersing memory modules of different speeds and different brands, you should choose the speed of RAM, which has the lowest par frequency. The question: Does the crackdown do you need any changes in game performance? Answer: Yes, it really is, but you can't find these changes in every game as some games don't require that much of the speed. The question is: How much speed can I get from a good memory module? Answer: It depends on its ratings you can speed up your RAM to its ratings or even more than that if the thermal memory ovary is good and powered enough, including cooling cooling Does the acceleration cause any harm to RAM? Answer: Not really, but if it's not done perfectly, it can shorten your RAM life. The question is: Which Intel processor's motherboards are best for preparing RAM? Answer: it is obvious that z270,z370 and z390 at the moment. The question is: Is XMP suitable for the acceleration of RAM? Answer: Yes, but only if you have a good cooling system and enough energy from you powering. Final thoughts The other of you may be afraid of dispersing memory modules. But there's nothing to be afraid of. You can easily disperse your memory modules after my guide. Just be careful with the ratings. I recommend you don't go to a speed level above that if you have a good cooling system and have enough energy left over from your power. Any Pro tip to disperse DDR4 RAM? Set the clock speed to the calculated speed or slightly higher. And for voltage you can install 1.5v drams, which is 100% safe. If you come across prolems you can install it at 1.15v, 1.25v, 1.3v and 1.4v respectivelyIf you have high-end pc games/workstations, then you should definitely disperse RAM. And for those who enjoy the performance of RAM stocks, I'll say go on. But there's no point spending money on a high-frequency RAM rating with a higher price if you're not dispersing them. High speed rated expensive RAM are made to disperse. So, what are you waiting for? Give a try and give us feedback. Feedback.

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