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Irql stop code

PC gaming laptops and desktops have been rigged for high performance. This means that they can handle all the non-stop hours of hardware demands: a lot of CPU, RAM, and cooling among others. It is apparent that a lot of power is needed to meet the performance expectations. Usually, this is the case, with a lot of PCs being able to handle the pressure. However, there is one common error that is never expected when gaming; the Blue Screen of Death (BSOD) DRIVER IRQL_NOT_LESS_OR_EQUAL error. The BSOD DRIVER IRQL NOT LESS OR EQUAL error occurs suddenly and forces a memory dump in a blue screen. The computer then turns off or restarts. This article will explain this BSOD error and detail on how to resolve this gaming problem.As it happens, the DRIVER IRQL_NOT_LESS_OR_EQUAL error is quite common, especially when gaming, or during the high performance is needed. This stop code usually means that a recent driver or drivers are conflicting between 2 or more hardware devices.This conflict occurs in the RAM and may be caused by a driver trying to access/write to a read-only RAM allocation or a location that was not allocated to the device, or a memory allocation is being written into by more than one driver at a time. This causes the system to 'panic' and dump the whole memory hence a BSOD a subsequent restart on your PC.This error is caused by bad, outdated, or corrupt drivers that cause this conflict. In gaming, this is usually caused by the GPU (Graphics Processing Unit) drivers, and even your mouse, keyboard, gaming pad, or any game controller drivers. Some software e.g. antivirus like AVG, IObit, Avast, McAfee, and Norton usually install drivers to control your firewall and online activities among other things. These drivers can deny activity to another driver or try to modify inputs of other drivers hence this error. If you are playing an online game, then this error could be attributed to faulty Ethernet or WLAN drivers. This BSOD error is also common in overclocked and overvolted PCs. Programs like MSI Afterburner can be used to do this, hence causing an unstable voltage and RAM frequency. The error could also be caused by a faulty RAM which will necessitate a replacement.Troubleshooting DRIVER IRQL_NOT_LESS_OR_EQUALEvery BSOD gives you an error code that you can search more about on the Internet. That error code contains information about the drivers/files that are conflicting with the Windows causing a BSOD.In this article, we will talk about the most common DRIVER IRQL_NOT_LESS_OR_EQUAL such as (Epfwfpl.sys, mlfewlpl.sys, Netlo.sys, ndispr64.sys) you can try the methods below and check which one works best for you. If you don't know what error code you are getting you can try the troubleshooting below to check which driver or file can be the possible cause of this issue:There are several ways we can troubleshoot and find the cause of this error. The first method is inbuilt to Windows. You can open Command Prompt or PowerShell and then run "verifier.exe /standard /all" and reboot. This will force the system to check for drivers that are making invalid calls, for example writing to memory that is not assigned to the driver. When this happens with the verifier turned on, it will cause a bug check and will name the bad driver in the memory dump file. You can install and run WhoCrashed from here.This will examine dump files that are created in a BSOD and try to name the device or driver that failed. You can also manually examine dump files created automatically in the Windows directory whenever a crash occurs. You can get a mindump file in C:/Windows/Mindump/\".dmp and the full memory dump in C:/Windows/MEMORY.dmp. Something should be logged in your Event log as well, including the STOP code and parameters. Simply unzip the latest and look for errors like shown below.Driver IRQL less or equal to MiniDump error cause by IObitTo test your memory for errors, download MemTest86+ from here. Make a bootable (Pre-Runtime Environment – PRE), boot the DVD/USB, and test your memory. MemTest86+ needs to be run for at least 8 passes for conclusive results. Set it running before you go to bed and leave it overnight. We're looking for zero errors here.Even a single error will indicate RAM failure. Sometimes though, especially with the DRIVER IRQL_NOT_LESS_OR_EQUAL error, even that is not enough. This is where you get hardcore with the troubleshooting. In the BIOS, load Fail-Safe defaults, disable the onboard modem, sound, and LAN (where applicable).Take out all the cards, with the exception of video, and run the machine for a while. If the machine stays stable, then start adding/re-enabling the devices one by one. Do this one by one until you start crashing again. Whatever you put in last is the culprit. If you want to skip troubleshooting or you have no idea at all how to go about it, then below are some of the known resolutions to this gaming error.Method 1: Using SFC and DISM CommandsSFC and DISM are the commands that you can execute on your Computer through Command Prompt. They are really helpful in certain scenarios as they can repair and replace corrupted Windows files/drivers. Both of these commands can actually help you fix BSOD "irql_not_less_or_equal" on your Windows. These commands are fairly easy to execute, follow these steps:Hold the Windows Key and Press X. Choose Command Prompt (Admin) or PowerShell (Admin).Now type the following command:-sfc/scannowSFC ScanningWait for the whole process to finish and it should give you results. If Windows was able to repair your files successfully it should say that the corrupted files are repaired. If the process is stuck and the Windows wasn't able to recover your Windows. You will have to use DISM to repair your Windows as it's a more efficient and powerful command than SFC, follow these steps:Hold the Windows Key and Press X. Choose Command Prompt (Admin) or PowerShell (Admin).Now type the following command:- DISM /Online /Cleanup-Image /RestoreHealthDISM ScanningWait for the command to finish the process, it should take a while. Once the command successfully does its job, simply restart your Windows and check if you are still getting the irql_not_less_or_equal Error on your Windows.Method 2: Update your graphics driversUpdating you're your graphics drivers usually solves this gaming BSOD 90% of the time. This error affects both ATI and NVidia and even low end GPUs. The best way to get your drivers is to go to your computer or graphics card manufacturer and download the drivers that are compatible with your OS and your computer or graphic cards. Dell users can go here, hp users can go here, while Lenovo users can go here. For your NVidia drivers, you can visit their download page here, Intel users can find their drivers here, while ATI (AMD, Radeon etc.) users can download drivers from here. We recommend using DDU (Display Graphics Uninstaller from here) to first remove the old drivers and clean install new drivers. Windows also provides updates via device manager.Press Windows Key + R to open RunType devmgmt.msc and hit enter to open the device managerExpand the 'Display Adapters' sectionRight click on your graphics device, and select 'update driver software'. An internet connection will give you better results.On the next window click "Search automatically for updated driver software"Device manager will search for drivers online and install them.Also update any graphic card software and anything related to the graphics processing unit.Method 3: Update your Ethernet and Wi-Fi adapter driversIf you are playing a game over the internet when this crash occurs, it is possible that your Ethernet or Wi-Fi adapter (whichever you are using to connect to the internet) drivers might be faulty. The best way to update them is to visit the device manufacturer website or your computer manufacturer website and download the latest drivers for your OS and device. Dell users can go here, hp users can go here, while Lenovo users can go here. You can also update from the device manager by:Press Windows Key + R to open RunType devmgmt.msc and hit enter to open the device managerExpand the 'Network Adapters' sectionRight click on your graphics device, and select 'update driver software'. An internet connection will give you better results.On the next window click "Search automatically for updated driver software"Device manager will search for drivers online and install them.Method 4: Uninstall your antivirus and any malware fighterSome antiviruses install drivers in order to control various functions like the firewall. Such antiviruses and malware fighters have been known to cause memory conflict hence crashing your PC. IObit and Norton do not particularly handle each other well on the same system. If you have, McAfee, Norton, IObit, Avast, or AVG, consider uninstalling them are replacing with other antiviruses and antimalware.Press Windows Key + R to open RunType appwiz.cpl and hit enter to open programs and featuresLook for McAfee, AVG, Avast, IObit, Norton and other antimalware and antivirus programsRight click on the program you want to uninstall and select "uninstall"Follow screen prompts to finish uninstallingYou will probably need to remove any residual files of the antivirus or antimalware programs.Method 5: Reseat your RAMGaming produces a lot of heat which in turn increases resistance on electric flow. An incorrectly seated RAM can fail to read/write when temperatures get to high due to higher resistance in the poorly connected terminals. Simply shutdown your computer, remove power cables and batteries, open up your computer, unseat the RAM, clear any dust and reseat your RAM. Make sure the RAM snaps back into place before restarting your PC. If you find errors on MemTest86+, replace your RAM.Method 6: Update your BIOSThe BIOS (Basic Input and Output System) controls how all devices interact with each other on your motherboard. Any conflict from the BIOS can cause the DRIVER IRQL_NOT_LESS_OR_EQUAL error. This conflict can happen due to outdated BIOS firmware. To update your motherboard firmware:Visit your motherboard manufacturer website, or your computer manufacturer website. Dell users can go here, hp users can go here, while Lenovo users can go here.Download the latest BIOS for your motherboard and install it.Search this site for bios update to see how to update your BIOS. Be careful when doing this because it might brick your motherboard.Method 7: Provide better cooling for your PC when gamingYour GPU, RAM, and CPU are set to run below a certain temperature. When this temperature threshold is reached, your computer will immediately shutdown through a BSOD to avoid damage to the CPU, RAM or GPU. What you need is to actively cool your PC when gaming. You can open up the side of the casing, or even use a secondary fan or cooling system. If you do not want to spend extra on cooling, here are our recommended ways on how you can achieve better cooling without spending a dime. Remember that overclocking, overvolting and undervolting can lead to unstable frequencies and voltages especially when high performance is needed (under stress) hence throwing an DRIVER IRQL_NOT_LESS_OR_EQUAL error BSOD. We recommend that you update all your devices with updated drivers from your manufacturer. The problem could be any device, including your gaming mouse and keyboard. You can also verify your game files by opening your game launcher > settings > verify game assets for most games. Have you ever encountered IRQL_NOT_LESS_OR_EQUAL BSOD error in Windows? It's very annoying, right?Blue Screen Of Death is a common error in Windows operating system. When this error occurs, your computer will temporarily be shut down. The screen of your PC will turn into a blue screen, along with detailed information about the error, such as STOP CODE, or error message.Depending on the cause of the BSOD error, you will need appropriate methods to diagnose and resolve. In this article today, I will explain more about IRQL_NOT_LESS_OR_EQUAL BSOD error, as well as how to fix it.Typically, this BSOD error appears due to Windows system files are corrupted, issues with the computer's hardware, or the driver. However, in most cases, this error is related to the RAM (Random Access Memory) on your computer. It occurs when a program, an application or a driver access to the RAM memory without permission.Here are some basic causes that can lead to the "IRQL NOT LESS OR EQUAL" error:Windows system files are corrupted.Install wrong drivers or drivers conflict.An interruption while installing a program.Downgrade from Windows 10 to Windows 7, Windows 8.This error can be happened on all versions of Windows OS, from Windows XP, Windows 7 to Windows 10. If you are encountering this error on your Windows PC, you have to figure out which one is the cause and then use right way to fix it.Solutions To Fix IRQL_NOT_LESS_OR_EQUAL ErrorIn this guide, I will tell you a few solutions you can use to remove this error from your Windows computer. These solutions are step-by-step guides and very easy to understand.Firstly, remove all USB devices that are currently connecting to your computer. These devices can be your printer, scanner, webcam, or external hard drive.Sometimes, the IRQL_NOT_LESS_OR_EQUAL error appears on your PC while it's scanning and installing a driver for a new USB device. That is the reason why you need to remove all USB devices and restart your PC to verify if the BSOD error remains or not.Situation #1:If it has been gone, that means you have a problem with one of your USB devices. In this case, you need to connect USB devices to your computer one by one to verify which one was creating this BSOD error.Once you determined the USB device that was created the IRQL_NOT_LESS_OR_EQUAL BSOD error, reinstall the driver of it to fix the error.Note: You should visit the official website to download the latest version of the driver instead of downloading from a third-party site. By that, it will help you to avoid unwanted errors in the future.Situation #2:If the BSOD error persists, you might have problems with installed drivers of internal hardware, for example, chipset, CPU, graphics card or sound card. Then move to the next step to learn more about this case.[full-related slug1="the-user-profile-service-failed-the-logout" slug2="critical_process_died"]Repair, Reinstall Or Update Windows DriversIf you have tried the above solution (situation #1), but the error persists. Then perhaps one (or more) of the drivers on your Windows PC that shows by internal hardware, might be corrupted. In this case, you have to repair, reinstall or update the driver.When IRQL_NOT_LESS_OR_EQUAL error occurs on your PC, it will show you a specific STOP error code, such as D1 or 0A.By displaying the "D1" stop error code, it will also show you which file is creating this BSOD error. However, if it shows the "0A" stop error code, Windows was unable to locate the cause of the problem.In this case, you can use Windows System Log to determine the cause of the error. To open Windows System Log, click on the Start logo -> Run -> type "view event logs" -> and select Event Viewer from the list.You can also access Event Viewer tool by going to Control Panel -> Administrative Tools -> Event Viewer.On the left side, select Windows Logs and then click on System. In the list of Windows events, just focus on events that come with a red icon.Click on it to find out more about the error and take an appropriate solution to fix it. For example, if it is related to chipset driver, you can uninstall the old driver and replace it with the new one.If you don't know how to determine the cause of the BSOD error via details of events, then right-click on that event, click on "Copy" and select "Copy details as text".In the next step, paste it into a .txt file (Text file) and save on your computer.Next, go to Microsoft's support forum and open a new topic to ask for help from Microsoft's supporters. They will help you to analyze the logs (Text file) and find out the cause of the error.Note: If you have recently upgraded or installed a new hardware like a new graphics card or a new sound card, try to remove it and uninstall the driver of it to test whether it is the reason that caused IRQL_NOT_LESS_OR_EQUAL BSOD error.[full-related slug1="what-version-of-windows-do-i-have" slug2="windows-10-runtime-broker-high-cpu-usage"]Restore Or Reset Windows To Solve IRQL_NOT_LESS_OR_EQUAL ErrorIf the System Protection has been enabled on your computer, you can use this feature to restore your Windows computer back to previous working points with Windows System Restore.To restore your Windows, right-click on "My Computer" icon on the desktop, and choose Properties.Next, select System Protection from the left side, and then click on "System Restore" button. In the next window, you will be able to select "previous points" at the time your computer still works fine. Just choose the point you want to restore back to.Windows System Restore only works if it enabled before getting this BSOD error. If the status of System Protection is off, then there is no backup to choose from.If you want to reset your Windows PC, visit here and learn how to do that.Note: Sometimes, just open Windows Update and check for new updates and then apply it. It will help you to fix this error instantly.Run Hardware Diagnostic To Check Your RAMIf you have a problem with your RAM (stands for Random Access Memory), it can lead to this error as well. You can fix it by checking the RAM on your PC and replace it with the good one. Windows has a built-in tool that allows you to do memory diagnostic, called Memory Diagnostic.To open Memory Diagnostic tool, press Windows and type "memory diagnostic" and then select Windows Memory Diagnostic from the list.Start to analyze your RAMs and then replace any faulty RAM sticks as soon as possible.I hope this article will help you to fix IRQL_NOT_LESS_OR_EQUAL BSOD error on your Windows computer.If you have any questions about this guide or need any helps on this error, feel free to leave your comment below.

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