

PC up and forces me to do a hard reset

Closed 📄 Issue created 1 week ago by [Adam Girardo](#)

[Renoir] [Cezanne] [AMD 4700u] Any 3D Project Game or Browser locks PC up and forces me to do a hard reset

Similar to these issues: [#2447 \(closed\)](#), [#2604](#), [#3316](#), [#3125 \(closed\)](#), [#2154 \(closed\)](#).

BEST REFERENCE POINT: There is clearly a major issue with these cards. This is sad. I should have done research prior to purchasing this laptop as I'm an avid AMD fan :-([#716](#)

<https://discussion.fedoraproject.org/t/issues-with-my-gpu-driver-on-videogames-need-help-identifying-issue/91135>

<https://askubuntu.com/questions/1412336/kernel-hang-on-resume-from-suspend-on-ubuntu-22-04>

<https://forums.linuxmint.com/viewtopic.php?t=386190>

I use OpenSUSE Tumbleweed (Plasma). I have tried numerous Kernel Parameters, Wayland vs Xorg, power profiles, CoreCTRL. I can't produce the issue at will it just happens rather regularly. Essentially, any game sometimes after a few minutes sometimes within an hour will lock up and I am forced to reboot. I have never reported a bug here so I apologize if I'm missing something or not doing something correctly. I just don't know else to do, I'm at a loss.

Operating System: openSUSE Tumbleweed 20240419 KDE Plasma Version: 6.0.4 KDE Frameworks Version: 6.1.0 Qt Version: 6.7.0 Kernel Version: 6.8.7-1-default (64-bit) Graphics Platform: X11 Processors: 8 × AMD Ryzen 7 4700U with Radeon Graphics Memory: 15.0 GiB of RAM Graphics Processor: AMD Radeon Graphics Manufacturer: LENOVO Product Name: 81YM System Version: IdeaPad 5 14ARE05

I wiped the laptop and installed Windows 10 from my Lenovo recovery. I had to do this to update my bios. I updated my bios. Installed OpenSUSE Tumbleweed alongside Windows and the issue persists.

~~Running the following command allows me to at least kill the game running before it locks up the laptop: amdgpu.runpm=0~~

POP OS DOES NOT HAVE THIS ISSUE. SWITCHING AND I HAVE HAD ZERO CRASHES.

Edited 1 day ago by [Adam Girardo](#)

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No child items are currently assigned. Use child items to break down this issue into smaller parts.

Linked items 📄 0

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Activity

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[Adam Girardo](#) [@PadreAdamo](#) · [4 days ago](#)

▶ journalctl -b 1

Author

Edited 4 days ago by [Alex Deucher](#)

It seemed to have narrowed down when the crashing occurs. It seems to occur when the computer resumes from suspend. It doesn't matter when, it could be 12 hours later. It will cause a crash. If I do a fresh reboot before playing a game, so far, it seems to be okay. I will do some more testing today.

Edited 4 days ago by [Adam Girardo](#)

◦ [Adam Girardo](#) changed the description [3 days ago](#)



[Mario Limonciello](#) @superm1 · [3 days ago](#)

Developer

Do you know if your monitors are using DSC? If so, it could be similar to some of the other DSC issues (reported at suspend or shutdown).

There is a potential fix [agd5f/Linux@301de4c1](#) you can try if so.



[Adam Girardo](#) @PadreAdamo · [3 days ago](#)

Author

I do not know. It's a built-in laptop monitor for my system. Apply kernel patches via OBS is a bit over my skill level atm. I have been tinkering but struggling. I reached out to some folks on Reddit as well.



[Mario Limonciello](#) @superm1 · [3 days ago](#)

Developer

It's unlikely that a built in eDP would use DSC.

When the hang happens, do you happen to get anything in `/var/lib/systemd/pstore` on the next boot?



[Adam Girardo](#) @PadreAdamo · [3 days ago](#)

Author

I just completely froze up. There is nothing in that directory.

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[Adam Girardo](#) @PadreAdamo · [3 days ago](#)

Author

Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: SMU is resuming...
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: dpm has been disabled

Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring gfx_low uses VM inv eng 1 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring gfx_high uses VM inv eng 4 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.0.0 uses VM inv eng 5 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.1.0 uses VM inv eng 6 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.2.0 uses VM inv eng 7 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.3.0 uses VM inv eng 8 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.0.1 uses VM inv eng 9 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.1.1 uses VM inv eng 10 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.2.1 uses VM inv eng 11 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.3.1 uses VM inv eng 12 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring kiq_0.2.1.0 uses VM inv eng 13 on hub 0
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring sdma0 uses VM inv eng 0 on hub 8
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring vcn_dec uses VM inv eng 1 on hub 8
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring vcn_enc0 uses VM inv eng 4 on hub 8
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring vcn_enc1 uses VM inv eng 5 on hub 8
Apr 25 17:29:46	kernel	amdgpu 0000:04:00.0: amdgpu: ring jpeg_dec uses VM inv eng 6 on hub 8
Apr 25 18:35:32	kernel	amdgpu 0000:04:00.0: amdgpu: SMU is resuming...

Apr 25 19:35:50	kwin_x11[1908]	OpenGL vendor string: AMD
Apr 25 19:35:50	kwin_x11[1908]	OpenGL renderer string: AMD Radeon Graphics (radeonsi, renoir, LLVM 18.1.3, DRM 3.57, 6.8.7-1-default)
Apr 25 19:41:12	kwin_x11[1908]	OpenGL vendor string: AMD
Apr 25 19:41:12	kwin_x11[1908]	OpenGL renderer string: AMD Radeon Graphics (radeonsi, renoir, LLVM 18.1.3, DRM 3.57, 6.8.7-1-default)
Apr 25 19:43:07	konsole[20451]	kf.kio.core: Url QUrl("file:///home/padreadamo/Downloads/0001-drm-amd-display-Skip-DSC-Determination-Policy-for-AS.patch") already represents a local file, cancelling job.
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: SMU is resuming...
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: dpm has been disabled
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: SMU is resumed successfully!
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring gfx uses VM inv eng 0 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring gfx_low uses VM inv eng 1 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring gfx_high uses VM inv eng 4 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.0.0 uses VM inv eng 5 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.1.0 uses VM inv eng 6 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.2.0 uses VM inv eng 7 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.3.0 uses VM inv eng 8 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.0.1 uses VM inv eng 9 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.1.1 uses VM inv eng 10 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.2.1 uses VM inv eng 11 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring comp_1.3.1 uses VM inv eng 12 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring kiq_0.2.1.0 uses VM inv eng 13 on hub 0
Apr 25 20:57:10	kernel	amdgpu 0000:04:00.0: amdgpu: ring sdma0 uses VM inv eng 0 on hub 8

These seem to show up continuously in my Yast Logger.

Edited 3 days ago by [Adam Girardo](#)

- [Adam Girardo](#) changed the description 3 days ago
- [Adam Girardo](#) changed the description 2 days ago
- [Adam Girardo](#) changed the description 2 days ago



[Adam Girardo](#) @PadreAdamo · 1 day ago

Author

I ended up backflashing my bios and crashing was still persistent. Finally, I reflashed my bios to latest and installed POP OS. The issue is GONE!

- [Adam Girardo](#) changed the description 1 day ago



[Adam Girardo](#) @PadreAdamo · 1 day ago

Author

Device Name

pop-os >

Hardware Model

Lenovo IdeaPad 5 14ARE05

Memory

16.0 GiB

Processor

AMD® Ryzen 7 4700u with radeon graphics × 8

Graphics

AMD® Radeon graphics

Disk Capacity

512.1 GB

OS Name

Pop!_OS 22.04 LTS

OS Type

64-bit

GNOME Version

42.9

Windowing System

X11

⊖ **Alex Deucher** closed 1 day ago

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