

Troubleshooting Computer

My Hardware

RAM G.skill 6400mghz 2x16gb

GPU Rtx 4090 trio 24gb

CPU i9 13900k

MAINBOARD Z790 GAMING X AX

Stutters/Lagspikes and the logs

Everytime i play Deep rock galactic or CS2 i get the problem that it feels like the shaders are getting compiled everytime after i restart the game.

Clip with lag -> https://youtu.be/bF_PYnXUWGE

In the clip I uploaded you can see that I get a big lag spike every first time I kill this green mob, the same lag Spike will only occur again after restarting the game.

I had the same issues in other games too, and I got tiny stutters while playing and I think they are somehow correlated to this issue.

While i got this lag spike i ran 2 softwares to Capture what happened

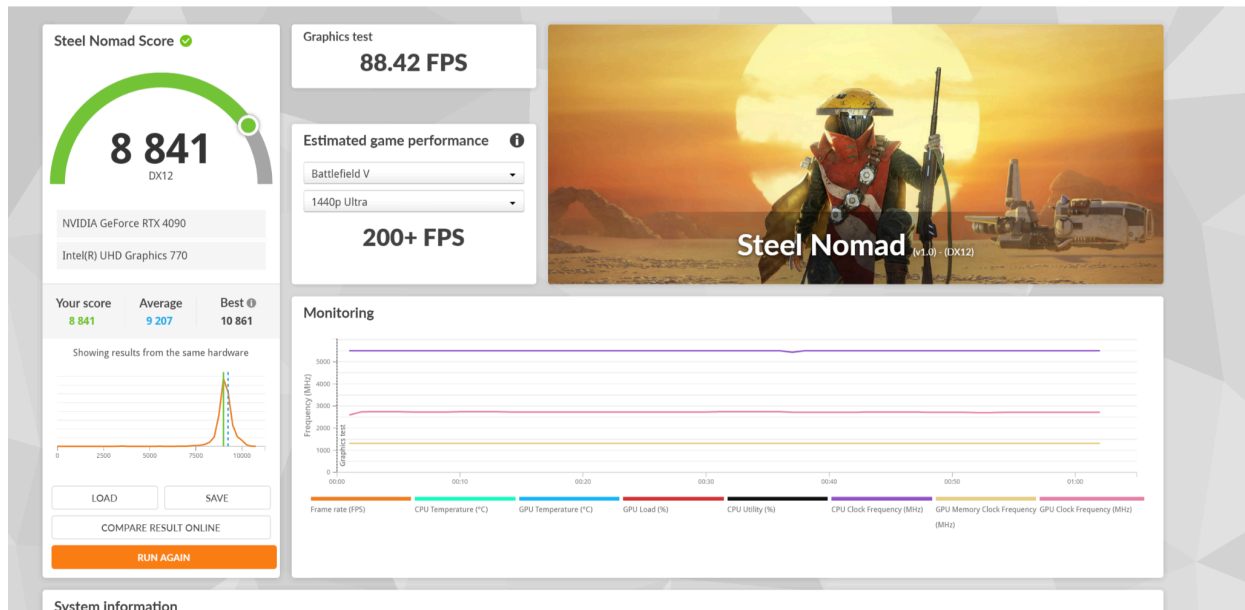


First i got this, this is capturing the CPU thread load, Gpu load and FPS
Then i tried to log what the game is doing whenever i get the stutters

Benchmarks

Cuz i thought that something of my hardware may be broken i tried to run some benchmarks

GPU



Not a singular stutter, why I think that my GPU is not the problem.

CPU

CPU Profile ✔

LOAD SAVE
COMPARE RESULT ONLINE

RUN AGAIN

Max threads ⌵

15 348

8 threads ⌵

8 256

2 threads ⌵

2 299

16 threads ⌵

11 067

4 threads ⌵

4 530

1-thread ⌵

1 161



Monitoring



System information

GPU #1 ✔	NVIDIA GeForce RTX 4090	CPU	13th Gen Intel Core i9-13900K	Time	2024-11-10 17:58 +01:00
Display #1 ✔	\\.\DISPLAY1 (3840 × 2160, 150% DPI scaling)	GUI	v2.29.8294 s64	SystemInfo	v5.75.1261
Display #2	\\.\DISPLAY2 (2560 × 1440, 100% DPI scaling)				
GPU #2	Intel(R) UHD Graphics 770				

[Show details](#)

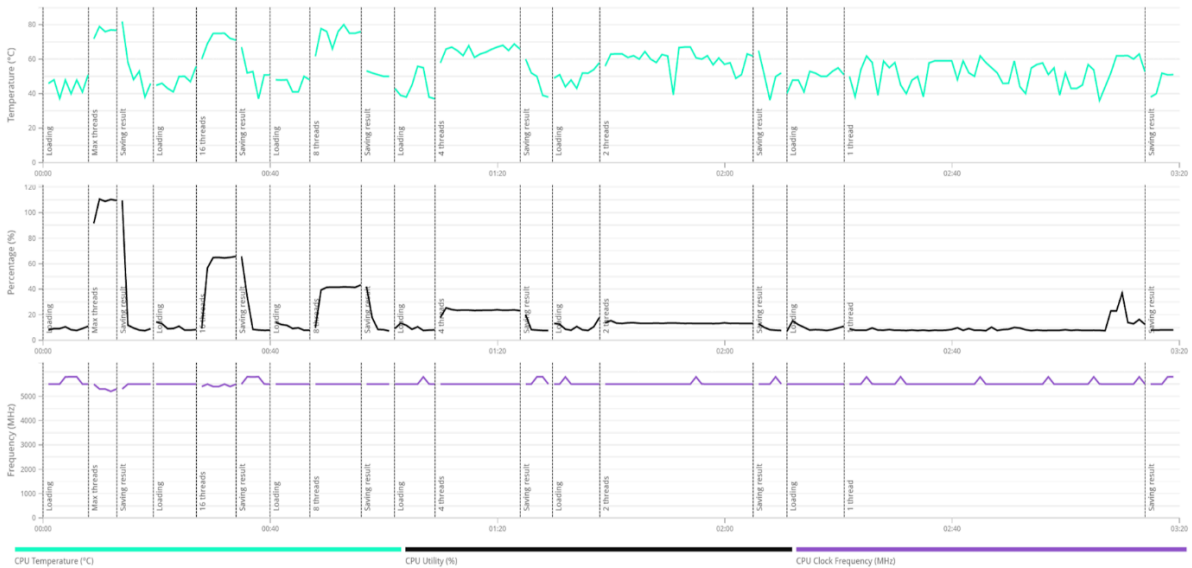
Settings used

GPU	NVIDIA GeForce RTX 4090
Display	\\.\DISPLAY1 Generic PnP Monitor
GPU connected to display	true

Detailed scores

Max threads ⌵	15 348	16 threads ⌵	11 067	8 threads ⌵	8 256
Average simulation time per frame	22.8 ms	Average simulation time per frame	31.6 ms	Average simulation time per frame	42.4 ms
4 threads ⌵	4 530	2 threads ⌵	2 299	1-thread ⌵	1 161
Average simulation time per frame	77.3 ms	Average simulation time per frame	152.2 ms	Average simulation time per frame	301.3 ms

Detailed monitoring



Here again, I would think that there is no problem.
I even tested with a new CPU and the issue persisted

Test Module	Enable	CPU1
Genuine Intel	<input checked="" type="checkbox"/>	Pass
BrandString	<input checked="" type="checkbox"/>	Pass
Cache	<input checked="" type="checkbox"/>	Pass
MMXSSE	<input checked="" type="checkbox"/>	Pass
IMC	<input checked="" type="checkbox"/>	Pass
Prime Number	<input checked="" type="checkbox"/>	Pass
Floating Point	<input checked="" type="checkbox"/>	Pass
Math	<input checked="" type="checkbox"/>	Pass
GPUStressW	<input checked="" type="checkbox"/>	Pass
CPUload	<input checked="" type="checkbox"/>	Pass
CPUFreq	<input checked="" type="checkbox"/>	Pass
PCH	<input checked="" type="checkbox"/>	Pass
SPBC	<input checked="" type="checkbox"/>	Pass

M.2 SSD

CrystalDiskMark 8.0.5 x64 [Admin]

Datei Settings Profile Theme Hilfe Sprache(Language)

All 5 1GiB C: 7% (125/1862GiB) MB/s

	Read (MB/s)	Write (MB/s)
SEQ1M Q8T1	6918.20	6769.76
SEQ1M Q1T1	4100.98	5409.59
RND4K Q32T1	1122.42	889.36
RND4K Q1T1	80.80	357.35

CrystalDiskInfo 9.4.4 x64

File Edit Function Theme Disk Help Language

Good 43 °C C: Good 25 °C D: Good 23 °C E:

KINGSTON SFYRD2000G : 2000,3 GB

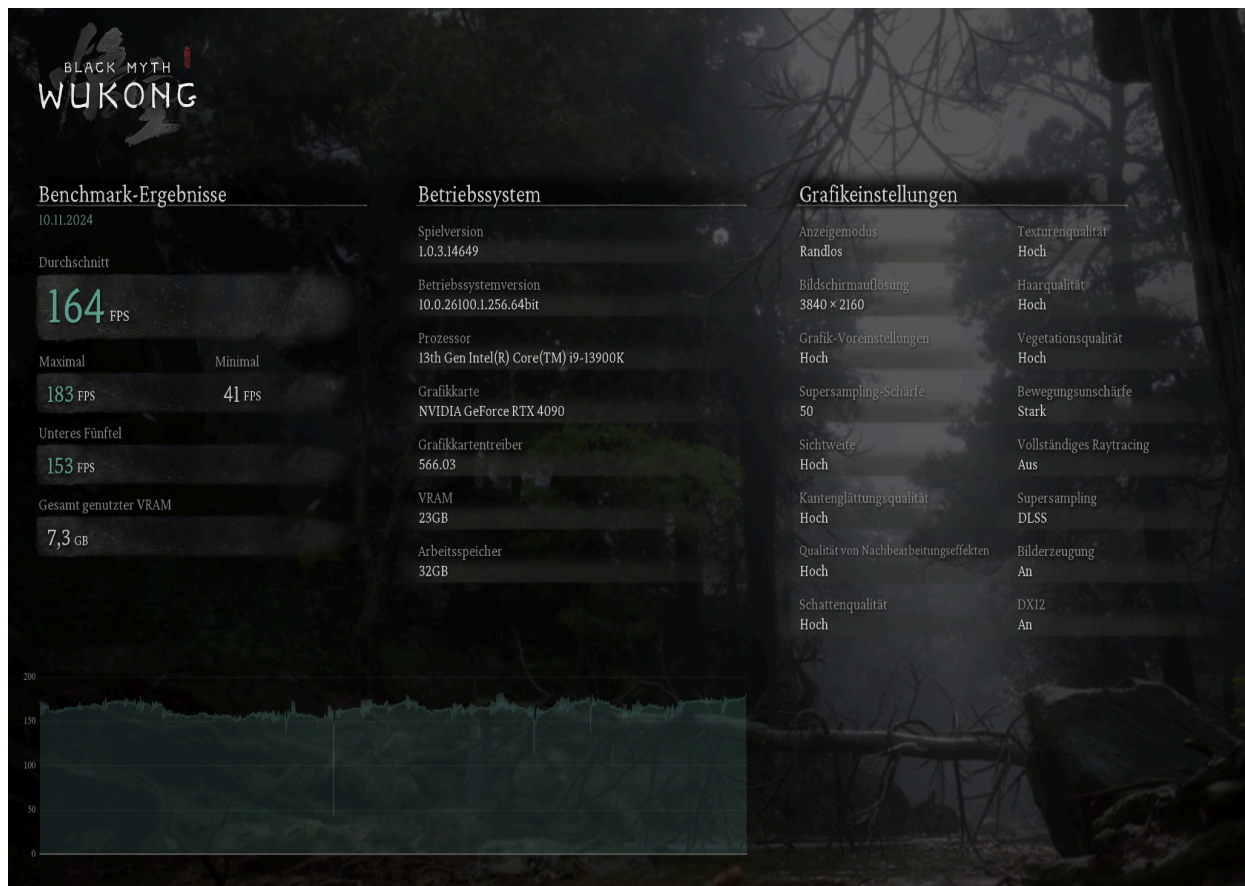
Health Status	Firmware	Total Host Reads
Good 97 %	EIFK31.6	55747 GB
Temperature	Serial Number	Total Host Writes
43 °C	50026B768633D942	65476 GB
	Interface	Rotation Rate
	NVM Express	---- (SSD)
	Transfer Mode	Power On Count
	PCIe 4.0 x4 PCIe 4.0 x4	794 count
	Drive Letter	Power On Hours
	C:	7338 hours
	Standard	
	NVM Express 1.4	
	Features	
	S.M.A.R.T., TRIM, VolatileWriteCache	

ID	Attribute Name	Raw Values
01	Critical Warning	00000000000000
02	Composite Temperature	00000000000142
03	Available Spare	00000000000064
04	Available Spare Threshold	0000000000000A
05	Percentage Used	00000000000003
06	Data Units Read	00000006F7EA64
07	Data Units Written	000000082F3BE4
08	Host Read Commands	00000020B9C562
09	Host Write Commands	00000029B9FE60
0A	Controller Busy Time	00000000000064F
0B	Power Cycles	0000000000031A
0C	Power On Hours	00000000001CAA
0D	Unsafe Shutdowns	00000000000014
0E	Media and Data Integrity Errors	00000000000000
0F	Number of Error Information Log Entries	00000000000E22

RAM

I used the Windows Memory Diagnostic tool to test my 2 RAM sticks and it found no errors.

Game Benchmark



Unlike the other benchmarks, there are some stutters here again.

Troubleshoot

I tried to use Older GPU drivers, and tried the newest GPU Driver. (With DDU)
I Reseted my Windows 11 with a USB and installed a Newer Windows 11 version.

I reinstalled all drivers.

I Installed a new BIOS (F11)

I tried to clean my Shader cache

I tried Multiple Game Graphic Settings (DX11 on/off, DX12 on/off, Fullscreen on/off)

I tried XMP on/off

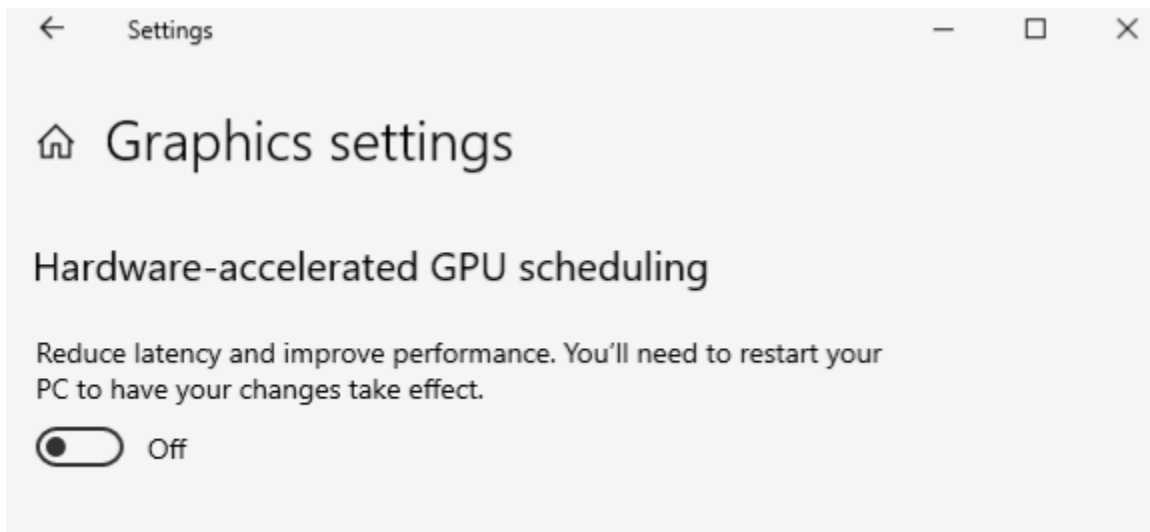
I tried windows on another SSD same problems

I tried playing without my 4090 GPU instead i disabled it and used my iGPU (issue persist)

The Crash

I turned hardware accelerated GPU scheduling off to test something.

That would mean that my CPU had more to do in the OS.



I started playing Videogames with it and out of nowhere my screens turned black and I couldn't do anything except turn off the Computer.

Ebene	Datum und Uhrzeit	Quelle	Ereignis-ID	Aufgabenkategorie
Informationen	11.11.2024 23:07:48	Kernel-Processor-Power	55 (47)	Keine
Informationen	11.11.2024 23:07:47	Ntfs (Microsoft-Windows-Ntfs)	98	Keine
Informationen	11.11.2024 23:07:47	Ntfs (Microsoft-Windows-Ntfs)	98	Keine
Informationen	11.11.2024 23:07:47	Kernel-Power	172 (203)	Keine
Kritisch	11.11.2024 23:07:47	Kernel-Power	41 (63)	Keine
Informationen	11.11.2024 23:07:47	Kernel-Power	125 (86)	Keine
Informationen	11.11.2024 23:07:47	FilterManager	6	Keine
Informationen	11.11.2024 23:07:47	FilterManager	6	Keine
Informationen	11.11.2024 23:07:47	FilterManager	6	Keine
Informationen	11.11.2024 23:07:47	Ntfs (Microsoft-Windows-Ntfs)	98	Keine
Informationen	11.11.2024 23:07:46	EnhancedStorage-EhStorTgDiv	100	Driver
Informationen	11.11.2024 23:07:46	EnhancedStorage-EhStorTgDiv	12	Driver
Informationen	11.11.2024 23:07:46	EnhancedStorage-EhStorTgDiv	100	Driver
Informationen	11.11.2024 23:07:46	FilterManager	6	Keine
Informationen	11.11.2024 23:07:46	FilterManager	6	Keine
Informationen	11.11.2024 23:07:46	FilterManager	6	Keine
Informationen	11.11.2024 23:07:51	EventLog	6013	Keine
Informationen	11.11.2024 23:07:51	EventLog	6005	Keine
Informationen	11.11.2024 23:07:51	EventLog	6009	Keine
Fehler	11.11.2024 23:07:51	EventLog	6008	Keine
Informationen	11.11.2024 23:07:45	HAL	16	Keine
Informationen	11.11.2024 23:07:45	Kernel-General	20 (8)	Keine
Informationen	11.11.2024 23:07:45	Kernel-Boot	30 (21)	Keine
Informationen	11.11.2024 23:07:45	Kernel-Boot	27 (33)	Keine
Informationen	11.11.2024 23:07:45	Kernel-Boot	25 (32)	Keine
Informationen	11.11.2024 23:07:45	Kernel-Boot	238 (101)	Keine
Informationen	11.11.2024 23:07:45	Kernel-Boot	247 (99)	Keine
Informationen	11.11.2024 23:07:45	Kernel-Boot	20 (31)	Keine
Informationen	11.11.2024 23:07:45	Kernel-Boot	32 (58)	Keine
Informationen	11.11.2024 23:07:45	Kernel-Boot	18 (57)	Keine
Informationen	11.11.2024 23:07:45	Kernel-Boot	153 (62)	Keine
Informationen	11.11.2024 23:07:45	Kernel-General	25 (12)	Keine
Informationen	11.11.2024 23:07:45	Kernel-General	12 (1)	Keine
Fehler	11.11.2024 23:07:14	nvlddmkm	153	Keine
Fehler	11.11.2024 23:07:14	nvlddmkm	153	Keine
Fehler	11.11.2024 23:07:14	nvlddmkm	153	Keine
Fehler	11.11.2024 23:07:11	nvlddmkm	153	Keine
Fehler	11.11.2024 23:07:11	nvlddmkm	153	Keine
Fehler	11.11.2024 23:07:07	nvlddmkm	153	Keine
Fehler	11.11.2024 23:07:07	nvlddmkm	153	Keine

Ebene	Datum und Uhrzeit	Quelle	Ereignis-ID	Aufgabenkategorie
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Fehler	11.11.2024 23:05:53	nvlddmkm	153	Keine
Warnung	11.11.2024 18:40:09	DistributedCOM	10016	Keine
Fehler	11.11.2024 18:00:01	TPM-WMI	1796	Keine
Informationen	11.11.2024 17:35:24	Service Control Manager	7040	Keine
Informationen	11.11.2024 17:25:19	Service Control Manager	7040	Keine
Warnung	11.11.2024 16:49:06	DNS Client Events	1014 (1014)	Keine
Informationen	11.11.2024 16:32:56	WindowsUpdateClient	19	Windows Update-Agent
Informationen	11.11.2024 16:32:56	Service Control Manager	7045	Keine
Informationen	11.11.2024 16:32:52	WindowsUpdateClient	43	Windows Update-Agent
Informationen	11.11.2024 16:32:52	WindowsUpdateClient	44	Windows Update-Agent
Fehler	11.11.2024 16:25:24	TPM-WMI	1796	Keine
Informationen	11.11.2024 16:24:53	Service Control Manager	7045	Keine
Warnung	11.11.2024 16:24:26	DistributedCOM	10016	Keine
Fehler	11.11.2024 16:24:18	TPM-WMI	1796	Keine
Warnung	11.11.2024 16:22:31	DistributedCOM	10016	Keine
Informationen	11.11.2024 16:22:28	TPM-WMI	1025	Keine
Informationen	11.11.2024 16:22:27	TPM-WMI	1282	Keine
Informationen	11.11.2024 16:22:23	TPM	18	Keine
Informationen	11.11.2024 16:22:23	Service Control Manager	7025	Keine
Warnung	11.11.2024 16:22:22	DistributedCOM	10016	Keine
Warnung	11.11.2024 16:22:22	DistributedCOM	10016	Keine
Informationen	11.11.2024 16:22:22	Winlogon	7001 (1101)	Keine
Informationen	11.11.2024 16:22:18	TPM-WMI	1038	Keine
Informationen	11.11.2024 16:22:18	TPM-WMI	1041	Keine
Informationen	11.11.2024 16:22:18	HttpService	113	HTTP Configuration Property Trace Task
Informationen	11.11.2024 16:22:18	HttpService	111	HTTP Configuration Property Trace Task
Informationen	11.11.2024 16:22:18	HttpService	113	HTTP Configuration Property Trace Task

I took these screenshots from the Windows Event viewer shortly after Crash

Event ID 14 (usually related to "nvlddmkm," the NVIDIA graphics driver): This often indicates an issue with communication between the GPU and its driver. Possible causes include driver errors, GPU overload, or compatibility issues.

Event ID 153 (typically linked to disk access): This is a warning that Windows has detected delays in accessing storage media, usually caused by faulty or delayed read/write operations. Common causes include an unstable drive, driver problems, or high system load.

The CPU had to take over more tasks related to graphics processing, which might have led to an increased load.

Other people had similar problems:

Users report stuttering and lag, particularly when loading large textures or shaders in games, which occur more frequently with the i9-13900 K and powerful GPUs such as the NVIDIA RTX 30xx series.

I got this crash some time later AGAIN

Fehler	30.11.2024 16:22:30	nvlddmkm	153	Keine
Fehler	30.11.2024 16:22:30	nvlddmkm	153	Keine
Fehler	30.11.2024 16:22:30	nvlddmkm	153	Keine
Fehler	30.11.2024 16:22:30	nvlddmkm	153	Keine
Fehler	30.11.2024 16:22:30	nvlddmkm	14	Keine
Informationen	30.11.2024 15:02:17	Service Control Manager	7040	Keine
Informationen	30.11.2024 14:59:27	WindowsUpdateClient	19	Windows Update-Agent
Informationen	30.11.2024 14:59:27	Service Control Manager	7045	Keine
Informationen	30.11.2024 14:59:22	WindowsUpdateClient	43	Windows Update-Agent
Informationen	30.11.2024 14:59:22	WindowsUpdateClient	44	Windows Update-Agent

And i took a look at the dump files

```
VIDEO_ENGINE_TIMEOUT_DETECTED (141)
One of the display engines failed to respond in timely fashion.
(This code can never be used for a real BugCheck; it is used to identify live dumps.)
Arguments:
Arg1: fffffe6835b9e0010, Optional pointer to internal TDR recovery context (TDR_RECOVERY_CONTEXT).
Arg2: fffff8072f9d06a0, The pointer into responsible device driver module (e.g. owner tag).
Arg3: 0000000000000000, The secondary driver specific bucketing key.
Arg4: fffffe6835692d0c0, Optional internal context dependent data.
```

Conclusion

The SSD or its interface is most likely affected. Event ID 153 indicates access issues, which often indicates an unstable SSD or controller issues. (i tried multiple SSDs, same problem) But if we consider that this error only occurs when you disable hardware accelerated gpu scheduling this would indicate that the CPU load distribution plays a role here, rather than the SSD itself.

And don't forget about the stutters while playing & the other User reports.

But I got a new CPU and I had the same problem, so idk.