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AMD Ryzen 9 5950X 16-Core testing with a ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3202 BIOS) and AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 8GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

Radeon RX 5700 XT had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (Radeon RX 5700 XT) was 1.001x the speed of the slowest (RX 5700 XT).

Test Systems:

RX 5700 XT

Radeon RX 5700 XT

Processor: AMD Ryzen 9 5950X 16-Core @ 6.92GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR

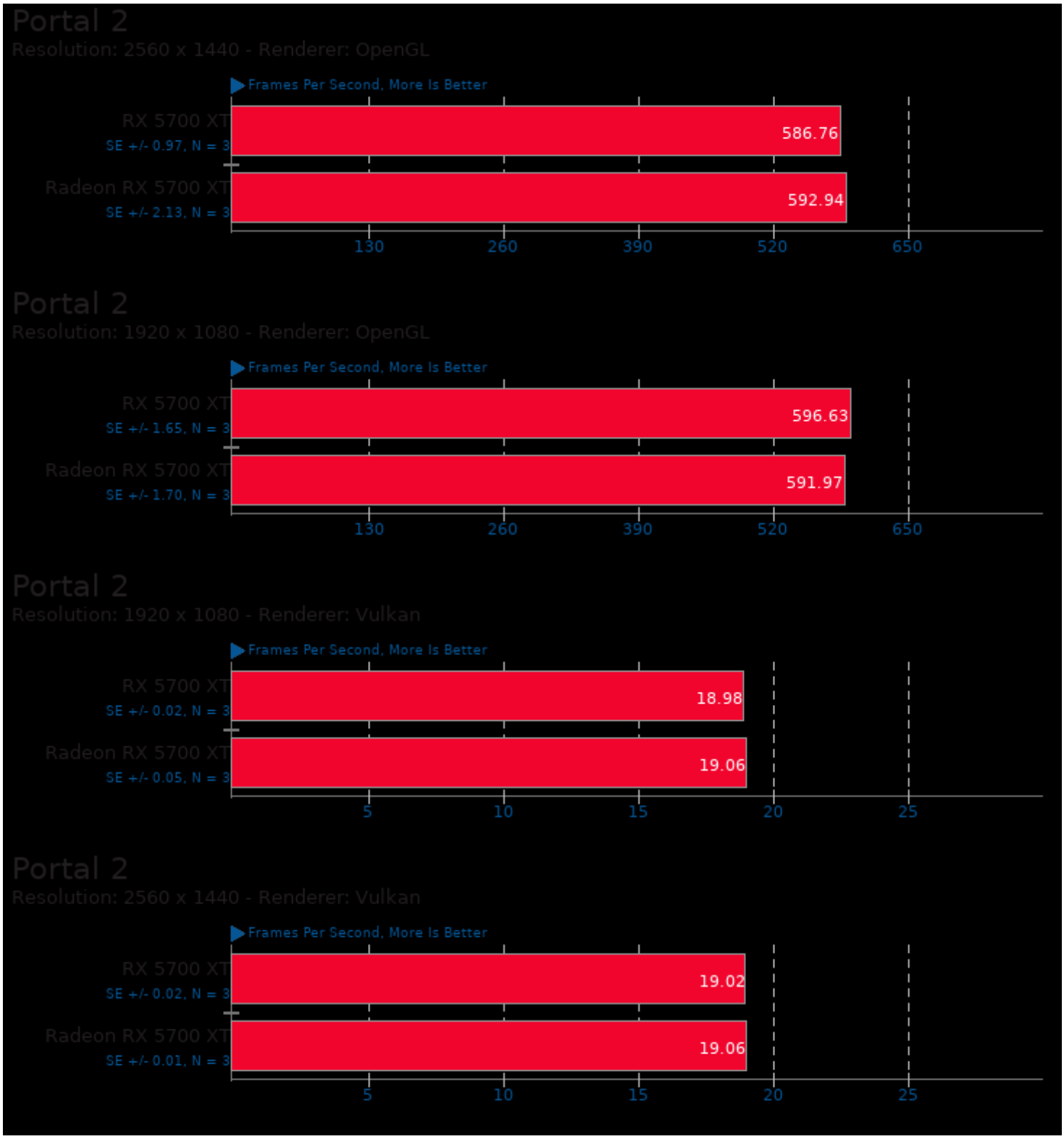
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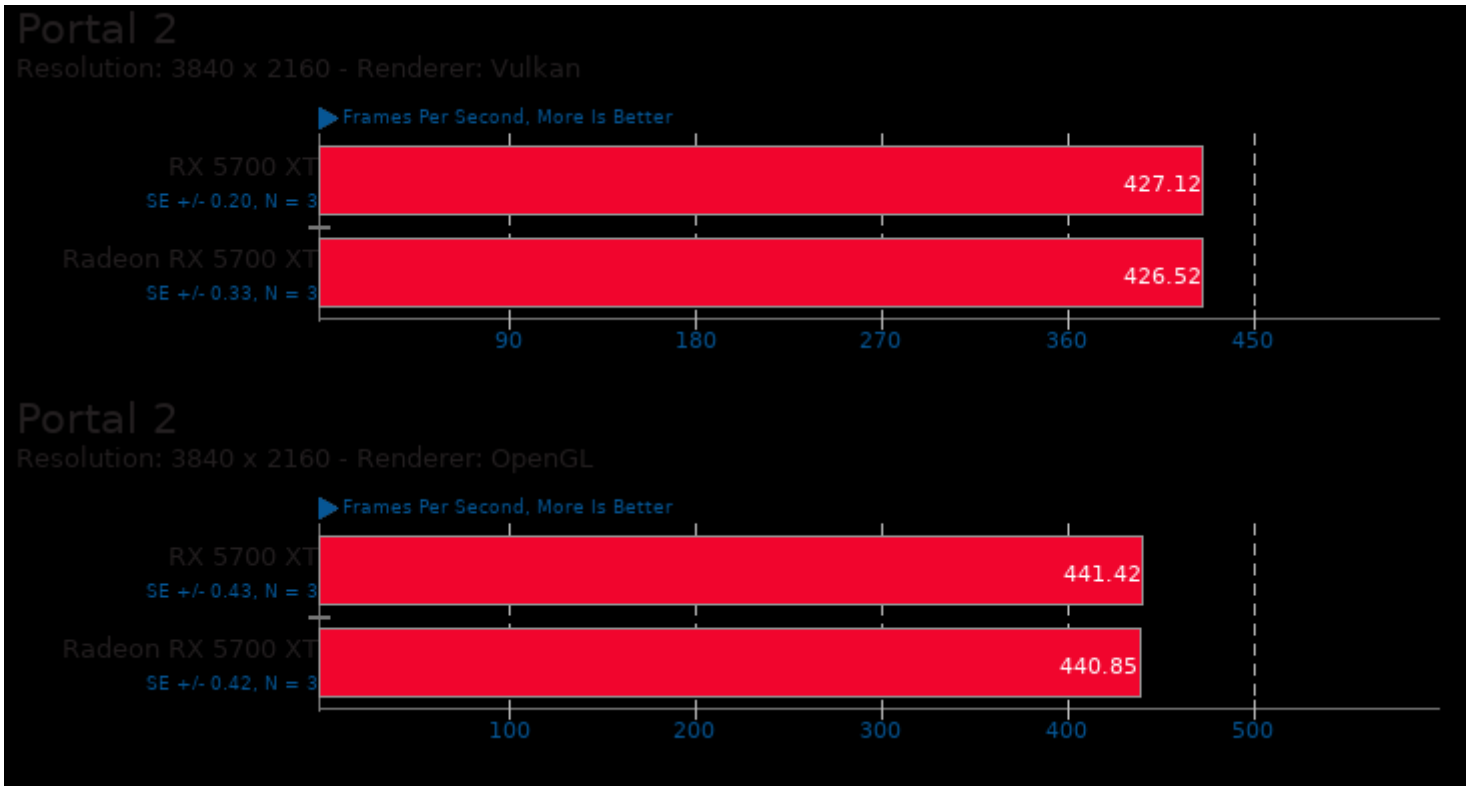
VIII HERO (WI-FI) (3202 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 2000GB Corsair Force MP600 + 2000GB, Graphics: AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 8GB (2100/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: ASUS MG28U, Network: Realtek RTL8125 2.5GbE + Intel I211 + Intel Wi-Fi 6 AX200

OS: Ubuntu 20.10, Kernel: 5.11.0-sched (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.1.0-devel (git-bf535c0 2021-02-19 groovy-oibaf-ppa) (LLVM 11.0.1), Vulkan: 1.2.168, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201009
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	RX 5700 XT	Radeon RX 5700 XT
Portal 2 - 2560 x 1440 - OpenGL (FPS)	**586.76**	**592.94**
Normalized	98.96%	100%
Standard Deviation	0.3%	0.6%
Portal 2 - 1920 x 1080 - OpenGL (FPS)	**596.63**	**591.97**
Normalized	100%	99.22%
Standard Deviation	0.5%	0.5%
Portal 2 - 1920 x 1080 - Vulkan (FPS)	**18.98**	**19.06**
Normalized	99.58%	100%
Standard Deviation	0.1%	0.4%
Portal 2 - 2560 x 1440 - Vulkan (FPS)	**19.02**	**19.06**
Normalized	99.79%	100%
Standard Deviation	0.2%	0.1%
Portal 2 - 3840 x 2160 - Vulkan (FPS)	**427.12**	**426.52**
Normalized	100%	99.86%
Standard Deviation	0.1%	0.1%
Portal 2 - 3840 x 2160 - OpenGL (FPS)	**441.42**	**440.85**
Normalized	100%	99.87%
Standard Deviation	0.2%	0.2%


Portal 2
Resolution: 2560 x 1440 - Renderer: OpenGL
Frames Per Second, More Is Better
RX 5700 XT
SE +/- 0.97, N = 3
586.76
Radeon RX 5700 XT
SE +/- 2.13, N = 3
592.94
130
260
390
520
650
Portal 2
Resolution: 1920 x 1080 - Renderer: OpenGL
Frames Per Second, More Is Better
RX 5700 XT
SE +/- 1.65, N = 3
596.63
Radeon RX 5700 XT
SE +/- 1.70, N = 3
591.97
130
260
390
520
650
Portal 2
Resolution: 1920 x 1080 - Renderer: Vulkan
Frames Per Second, More Is Better
RX 5700 XT
SE +/- 0.02, N = 3
18.98
Radeon RX 5700 XT
SE +/- 0.05, N = 3
19.06
5
10
15
20
25
Portal 2
Resolution: 2560 x 1440 - Renderer: Vulkan
Frames Per Second, More Is Better
RX 5700 XT
SE +/- 0.02, N = 3
19.02
Radeon RX 5700 XT
SE +/- 0.01, N = 3
19.06
5
10
15
20
25



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