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cwilgo-unigine-5800x3d-001

AMD Ryzen 7 5800X3D 8-Core testing with a ASUS ROG STRIX X570-I GAMING (4408 BIOS) and AMD Radeon RX 6750 XT 12GB on Arch rolling via the Phoronix Test Suite.

Test Systems:

rx590

rx590-2

Processor: AMD Ryzen 7 5800X3D 8-Core @ 3.40GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG STRIX X570-I GAMING (4408 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Samsung SSD 980 PRO 1TB, Graphics: XFX AMD Radeon RX 590 8GB (1580/2000MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: LG FULL HD, Network: Intel I211 + Intel Wi-Fi 6 AX200

OS: Arch Linux, Kernel: 6.1.7-arch1-1 (x86_64), Desktop: KDE Plasma 5.26.5, Display Server: X Server 1.21.1.6, OpenGL: 4.6 Mesa 22.3.3 (LLVM 15.0.7 DRM 3.49), Compiler: GCC 12.2.1 20230111 + Clang 15.0.7, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa20120a
Graphics Notes: GLAMOR - BAR1 / Visible vRAM Size: 8192 MB - vBIOS Version: 113-P30XT_8GBD5_HM
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

6750xt-1080p

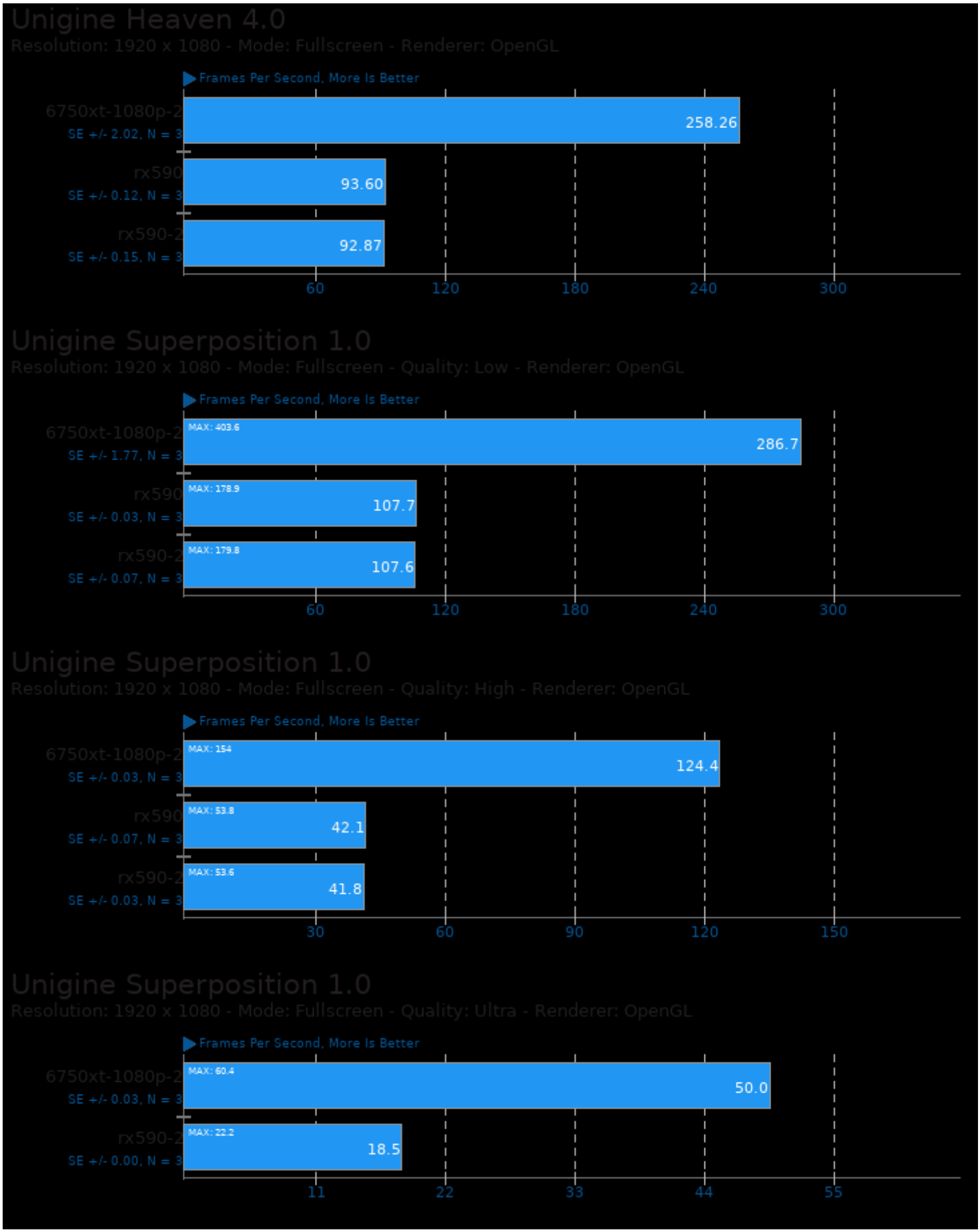
6750xt-1080p-2

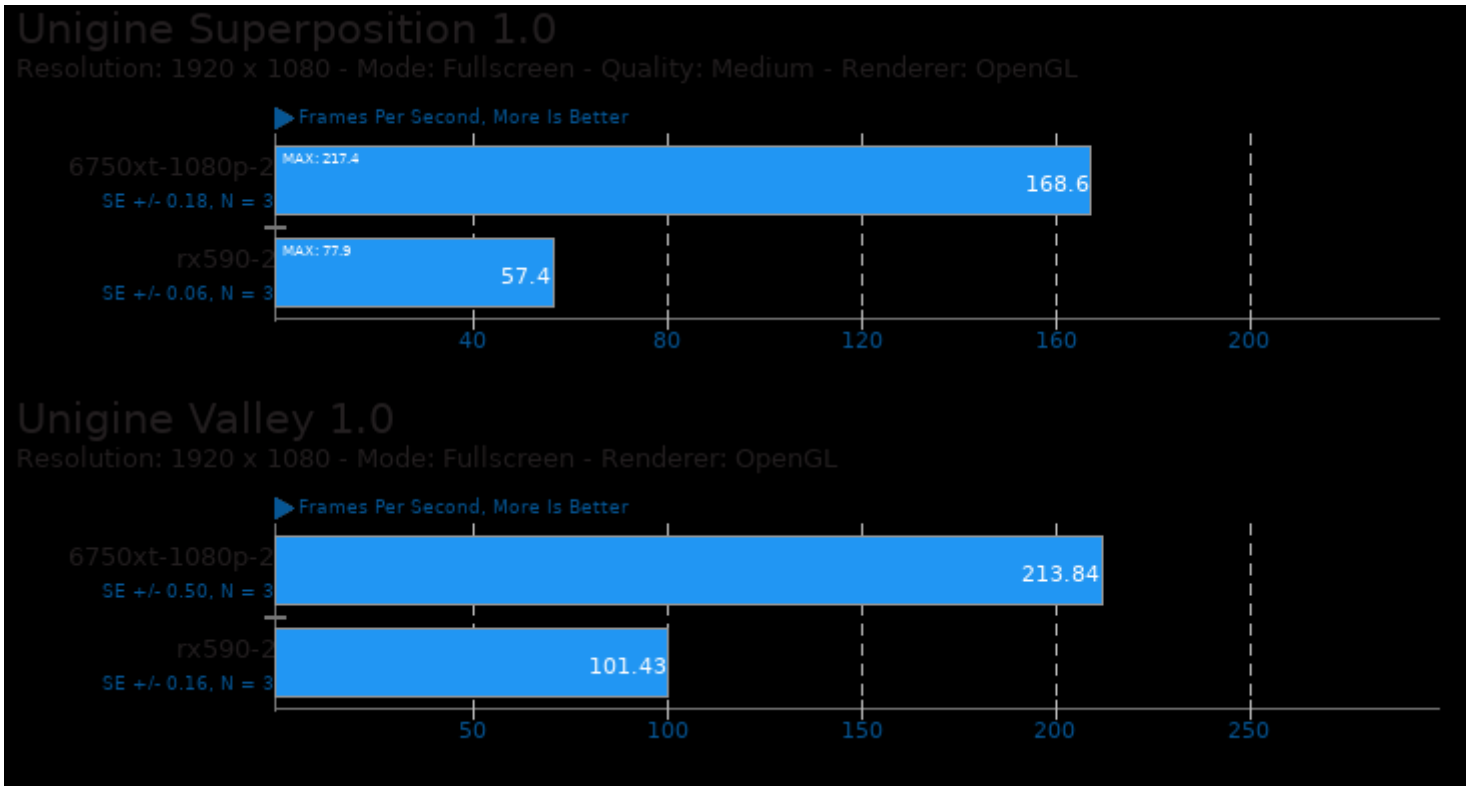
Processor: AMD Ryzen 7 5800X3D 8-Core @ 3.40GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG STRIX X570-I GAMING (4408 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Samsung SSD 980 PRO 1TB, Graphics: AMD Radeon RX 6750 XT 12GB (2880/1124MHz), Audio: AMD Navi 21/23, Monitor: LG FULL HD, Network: Intel I211 + Intel Wi-Fi 6 AX200

OS: Arch rolling, Kernel: 6.1.7-arch1-1 (x86_64), Desktop: KDE Plasma 5.26.5, Display Server: X Server 1.21.1.6, OpenGL: 4.6 Mesa 22.3.3 (LLVM 15.0.7 DRM 3.49), OpenCL: OpenCL 2.1 AMD-APP (3513.0), Compiler: GCC 12.2.1 20230111 + Clang 15.0.7 + LLVM 15.0.7, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa20120a
Graphics Notes: GLAMOR - BAR1 / Visible vRAM Size: 12272 MB - vBIOS Version: 113-D5270100-100
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	rx590	rx590-2	6750xt-1080p	6750xt-1080p-2
Unigine Heaven - 1920 x 1080 - Fullscreen - OpenGL (FPS)	93.5955	**92.8699**		**258.264**
Normalized	36.24%	35.96%		100%
Standard Deviation	0.2%	0.3%		1.4%
Unigine Superposition - 1920 x 1080 - Fullscreen - Low - OpenGL (FPS)	107.7	**107.6**		**286.7**
Normalized	37.57%	37.53%		100%
Standard Deviation	0.1%	0.1%		1.1%
Unigine Superposition - 1920 x 1080 - Fullscreen - High - OpenGL (FPS)	42.1	**41.8**		**124.4**
Normalized	33.84%	33.6%		100%
Standard Deviation	0.3%	0.1%		0%
Unigine Superposition - 1920 x 1080 - Fullscreen - Ultra - OpenGL (FPS)		**18.5**		**50.0**
Normalized		37%		100%
Standard Deviation		0%		0.1%
Unigine Superposition - 1920 x 1080 - Fullscreen - Medium - OpenGL (FPS)		**57.4**		**168.6**
Normalized		34.05%		100%
Standard Deviation		0.2%		0.2%
Unigine Valley - 1920 x 1080 - Fullscreen - OpenGL (FPS)		**101.431**		**213.841**
Normalized		47.43%		100%
Standard Deviation		0.3%		0.4%


Unigine Heaven 4.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL
Frames Per Second, More Is Better
6750xt-1080p-2
SE +/- 2.02, N = 3
258.26
rx590
SE +/- 0.12, N = 3
93.60
rx590-2
SE +/- 0.15, N = 3
92.87
60
120
180
240
300
Unigine Superposition 1.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Quality: Low - Renderer: OpenGL
Frames Per Second, More Is Better
6750xt-1080p-2
SE +/- 1.77, N = 3
MAX: 403.6
286.7
rx590
SE +/- 0.03, N = 3
MAX: 178.9
107.7
rx590-2
SE +/- 0.07, N = 3
MAX: 179.8
107.6
60
120
180
240
300
Unigine Superposition 1.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Quality: High - Renderer: OpenGL
Frames Per Second, More Is Better
6750xt-1080p-2
SE +/- 0.03, N = 3
MAX: 154
124.4
rx590
SE +/- 0.07, N = 3
MAX: 53.8
42.1
rx590-2
SE +/- 0.03, N = 3
MAX: 53.6
41.8
30
60
90
120
150
Unigine Superposition 1.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Quality: Ultra - Renderer: OpenGL
Frames Per Second, More Is Better
6750xt-1080p-2
SE +/- 0.03, N = 3
MAX: 60.4
50.0
rx590-2
SE +/- 0.00, N = 3
MAX: 22.2
18.5
11
22
33
44
55



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