

www.phoronix-test-suite.com

DesktopGraphics2022

AMD Ryzen 9 5900X 12-Core testing with a ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3401 BIOS) and ASUS NVIDIA GeForce GT 710 2GB on Arch Linux via the Phoronix Test Suite.

Test Systems:

Mini 590

Processor: AMD Ryzen 5 2600 Six-Core @ 3.40GHz (6 Cores / 12 Threads), Motherboard: ASRock B450 Gaming-ITX/ac (P3.20 BIOS), Chipset: AMD 17h, Memory: 16GB, Disk: Samsung SSD 980 500GB + 2000GB TOSHIBA HDWL120, Graphics: Sapphire AMD Radeon RX 590 8GB (1560/2100MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: LG TV, Network: Intel I211 + Intel Dual Band-AC 3168NGW

OS: ManjaroLinux 21.2.6, Kernel: 5.13.19-2-MANJARO (x86_64), Desktop: GNOME Shell 42.1, Display Server: X Server 1.21.1.2 + Wayland, OpenGL: 4.6 Mesa 22.0.3 (LLVM 13.0.1 DRM 3.41), Vulkan: 1.3.204, Compiler: GCC 11.2.0 + Clang 13.0.1 + LLVM 13.0.1, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x800820d

Graphics Notes: GLAMOR - BAR1 / Visible vRAM Size: 256 MB
Python Notes: Python 3.10.4
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 STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

v8 710

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3401 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: Sabrent Rocket 4.0 500GB + 128GB TS128GMTE110S, Graphics: ASUS NVIDIA GeForce GT 710 2GB, Audio: NVIDIA GK208 HDMI/DP, Monitor: DELL U2413, Network: Realtek RTL8125 2.5GbE + Intel I211 + Intel Wi-Fi 6 AX200

OS: Arch Linux, Kernel: 5.17.6-arch1-1 (x86_64), Display Server: X Server 1.21.1.3, Display Driver: NVIDIA 470.103.01, OpenGL: 4.6.0, Compiler: GCC 12.1.0, File-System: btrfs, Screen Resolution: 3840x1200

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201009
Graphics Notes: BAR1 / Visible vRAM Size: N/A
Python Notes: Python 3.10.4
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: 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 + srbds: Not affected + tsx_async_abort: Not affected

	Mini 590	v8 710
GLmark2 - 1920 x 1080 (Score)	8037	
OpenArena - 1920 x 1080 (FPS)	**404.2**	**29.8**
Normalized	100%	7.37%
Standard Deviation	2.4%	0.2%
Tesseract - 1920 x 1080 (FPS)	622.2273	
Standard Deviation	2.5%	
Unigine Heaven - 1920 x 1080 - Fullscreen - OpenGL (FPS)	**94.6601**	**5.73949**
Normalized	100%	6.06%
Standard Deviation	0.6%	0.2%
Unigine Valley - 1920 x 1080 - Fullscreen - OpenGL (FPS)	**100.6666**	**6.40970**
Normalized	100%	6.37%
Standard Deviation	0.6%	0.3%
Xonotic - 1920 x 1080 - Low (FPS)	**427.7841580**	**98.0282588**
Normalized	100%	22.92%
Standard Deviation	0.8%	0.2%
Xonotic - 1920 x 1080 - High (FPS)	**362.6555018**	**46.7566832**
Normalized	100%	12.89%
Standard Deviation	1.4%	0.2%
Xonotic - 1920 x 1080 - Ultra (FPS)	**325.9325481**	**27.3159091**
Normalized	100%	8.38%
Standard Deviation	1.9%	0.1%
Xonotic - 1920 x 1080 - Ultimate (FPS)	**265.5030510**	**18.1948426**
Normalized	100%	6.85%
Standard Deviation	0.9%	0.2%

DesktopGraphics2022

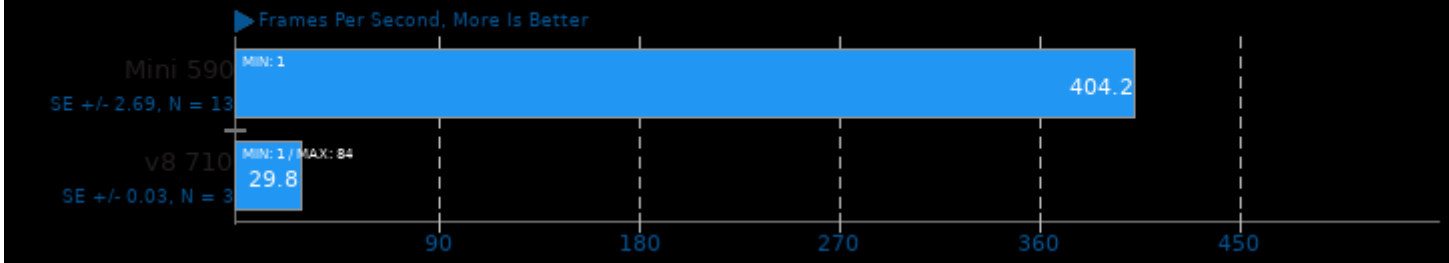
GLmark2 2021.08.30

Resolution: 1920 x 1080



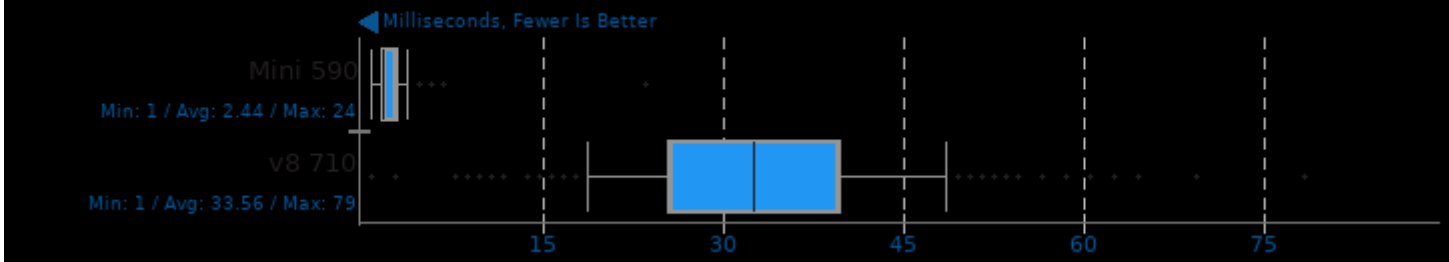
OpenArena 0.8.8

Resolution: 1920 x 1080



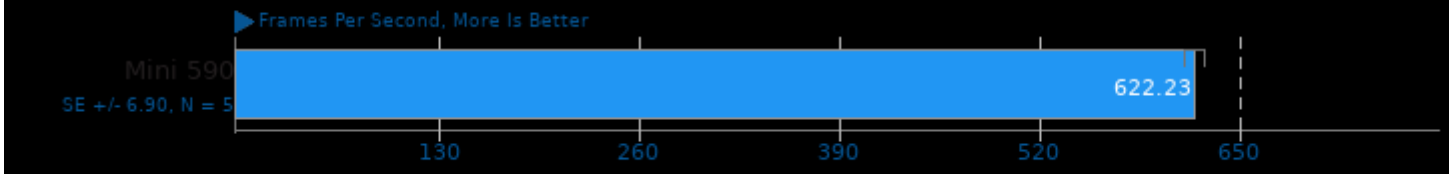
OpenArena 0.8.8

Resolution: 1920 x 1080 - Total Frame Time



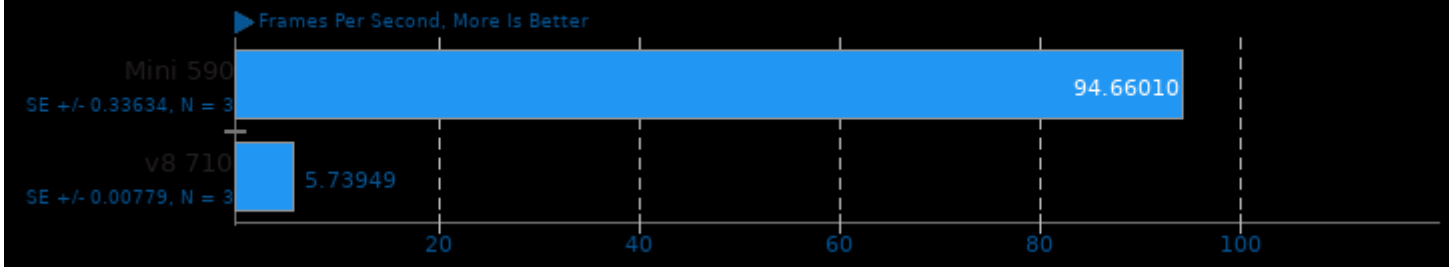
Tesseract 2014-05-12

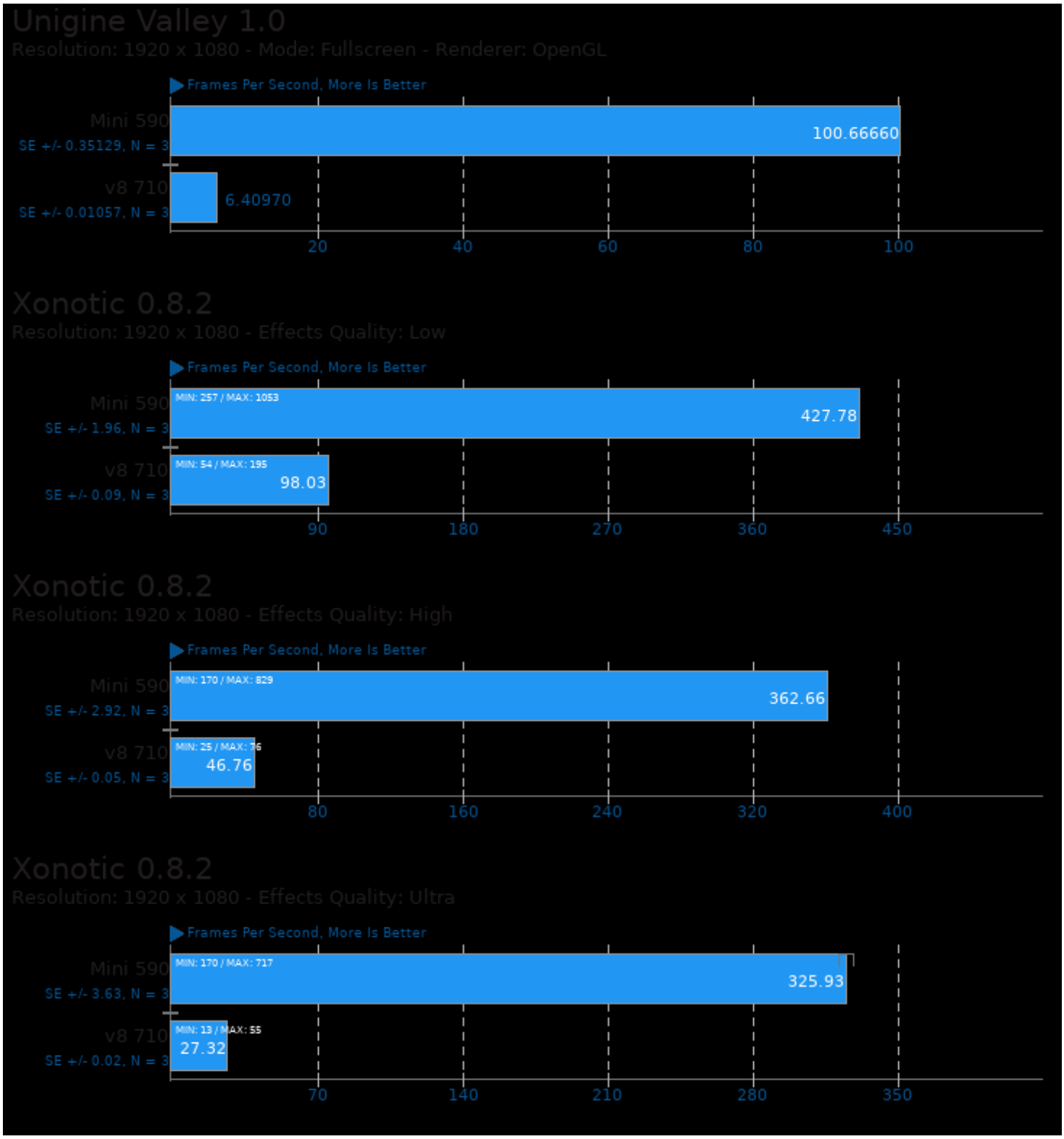
Resolution: 1920 x 1080

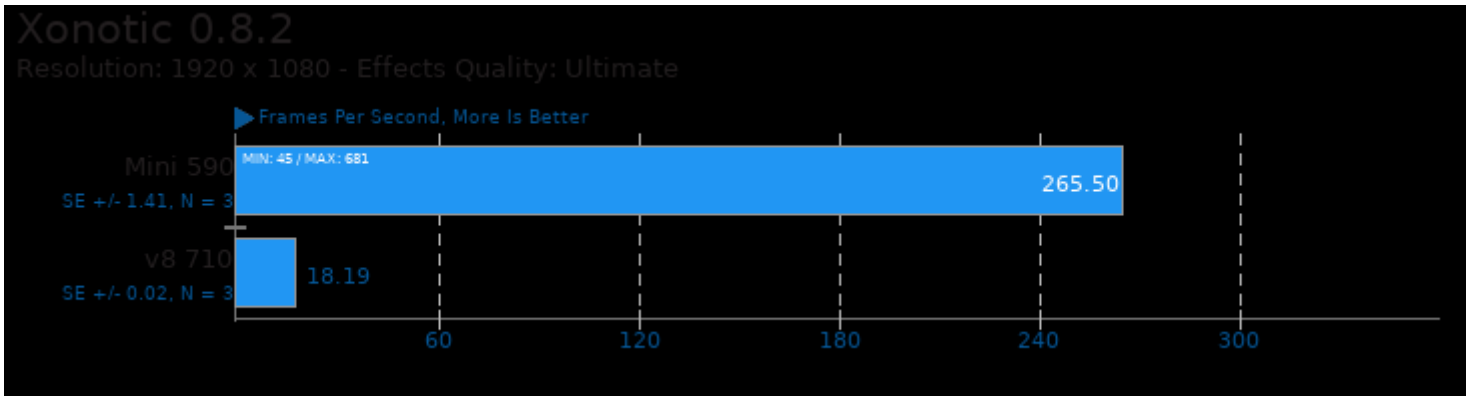


Unigine Heaven 4.0

Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL

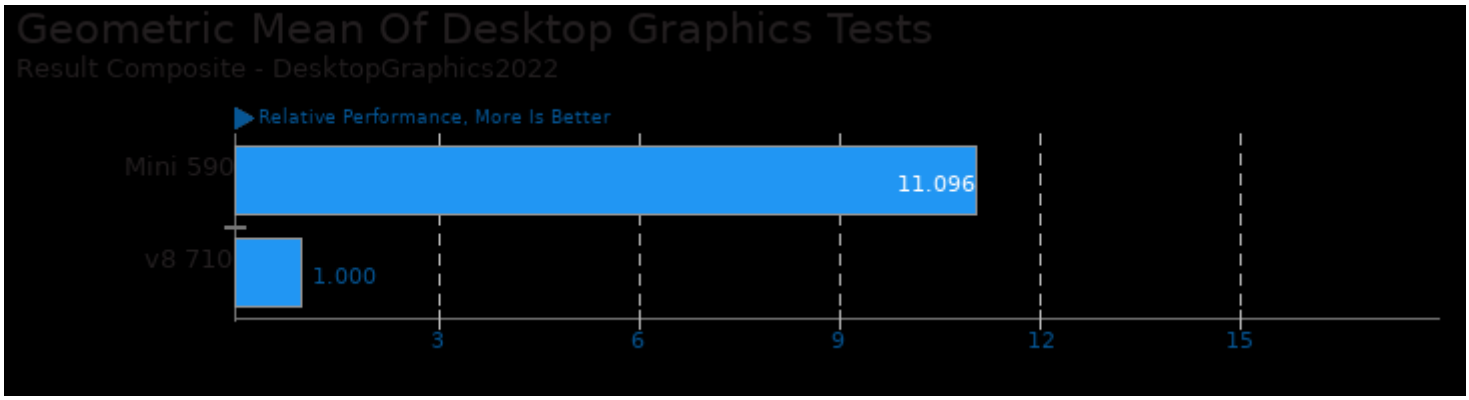



Unigine Valley 1.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL
Frames Per Second, More Is Better
Mini 590
SE +/- 0.35129, N = 3
100.66660
v8 710
SE +/- 0.01057, N = 3
6.40970
20
40
60
80
100
Xonotic 0.8.2
Resolution: 1920 x 1080 - Effects Quality: Low
Frames Per Second, More Is Better
Mini 590
SE +/- 1.96, N = 3
MIN: 257 / MAX: 1053
427.78
v8 710
SE +/- 0.09, N = 3
MIN: 54 / MAX: 195
98.03
90
180
270
360
450
Xonotic 0.8.2
Resolution: 1920 x 1080 - Effects Quality: High
Frames Per Second, More Is Better
Mini 590
SE +/- 2.92, N = 3
MIN: 170 / MAX: 829
362.66
v8 710
SE +/- 0.05, N = 3
MIN: 25 / MAX: 76
46.76
80
160
240
320
400
Xonotic 0.8.2
Resolution: 1920 x 1080 - Effects Quality: Ultra
Frames Per Second, More Is Better
Mini 590
SE +/- 3.63, N = 3
MIN: 170 / MAX: 717
325.93
v8 710
SE +/- 0.02, N = 3
MIN: 13 / MAX: 55
27.32
70
140
210
280
350

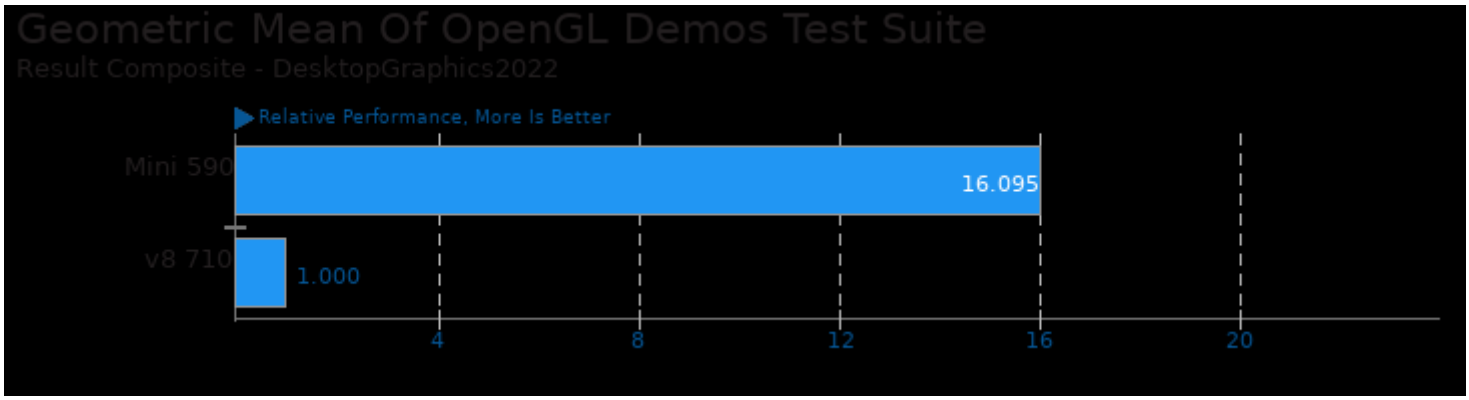

Xonotic 0.8.2
Resolution: 1920 x 1080 - Effects Quality: Ultimate
Frames Per Second, More Is Better
Mini 590
SE +/- 1.41, N = 3
MIN: 45 / MAX: 681
265.50
v8 710
SE +/- 0.02, N = 3
18.19
60
120
180
240
300

DesktopGraphics2022

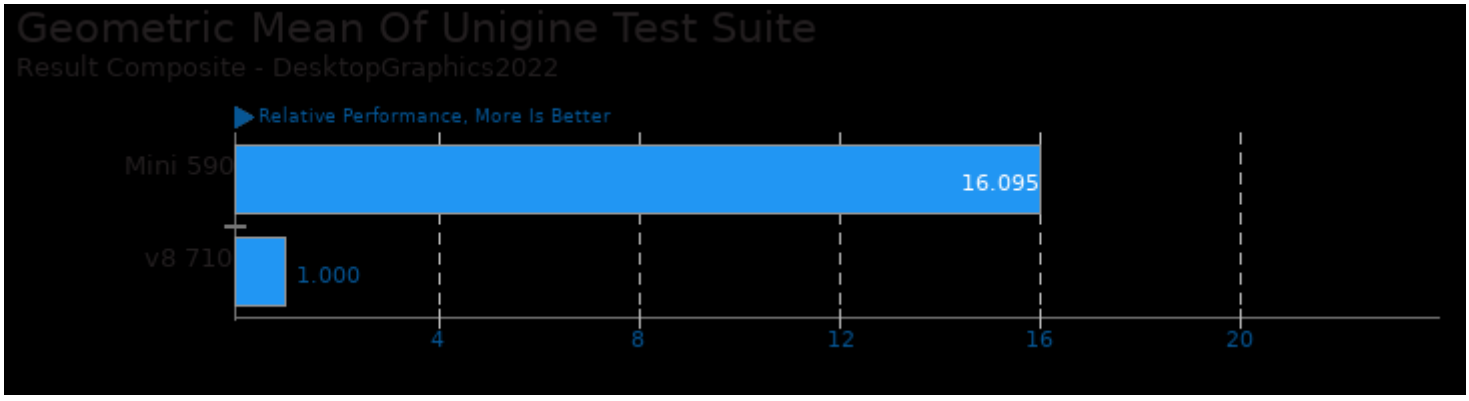
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/xonotic, pts/openarena, pts/tesseract, pts/paraview, pts/unigine-valley, pts/unigine-heaven and pts/glmark2



Geometric mean based upon tests: pts/unigine-valley and pts/unigine-heaven



Geometric mean based upon tests: pts/unigine-valley and pts/unigine-heaven

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 08:36.