



virgl-gentoo-guest-debug-small-buf

Virgl testing async command stream

Automated Executive Summary

virgl-async-draw_flush64 had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (virgl-async-draw_flush64) was 1.1x the speed of the slowest (virgl-async small cmd buffer 2). virgl async disabled gentoo-debug was 0.926x the speed of virgl-async-draw_flush64. Small buffer always sync was 0.987x the speed of virgl async disabled gentoo-debug, virgl-async small cmd buffer was 0.997x the speed of Small buffer always sync, virgl-async small cmd buffer 2 was 0.997x the speed of virgl-async small cmd buffer.

Test Systems:

Small buffer always sync

virgl async disabled gentoo-debug

Processor: 8 x QEMU Virtual 2.5+ (8 Cores), Motherboard: QEMU Standard PC (Q35 + ICH9 2009) (rel-1.14.0-0-g155821a1990b-prebuilt.qemu.org BIOS), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 32GB, Disk: 97GB, Graphics: virgl 12288GB, Audio: Intel 82801I, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Gentoo/Linux, Kernel: 5.15.11-gentoo-x86_64 (x86_64), Display Server: X Server 1.20.14, OpenGL: 4.3 Mesa 22.0.0-devel (git-131dba3266) (LLVM 13.0.0 D...), Compiler: GCC 11.2.0 + LLVM 13.0.0, File-System: ext4, Screen Resolution: 1024x768, System Layer: QEMU

Environment Notes: VIRGL_DEBUG=snc_cmd

Processor Notes: CPU Microcode: 0x1000065

Python Notes: Python 3.9.9

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Not affected + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retrpoline STIBP: disabled RSB filling + srbs: Not affected + tsx_async_abort: Not affected

virgl-async small cmd buffer

virgl-async small cmd buffer 2

Processor: 8 x QEMU Virtual 2.5+ (8 Cores), Motherboard: QEMU Standard PC (Q35 + ICH9 2009) (rel-1.14.0-0-g155821a1990b-prebuilt.qemu.org BIOS), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 32GB, Disk: 97GB, Graphics: virgl 12288GB, Audio: Intel 82801I, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Gentoo/Linux, Kernel: 5.15.11-gentoo-x86_64 (x86_64), Display Server: X Server 1.20.14, OpenGL: 4.3 Mesa 22.0.0-devel (git-c31e3bab67) (LLVM 13.0.0 D...), Compiler: GCC 11.2.0 + LLVM 13.0.0, File-System: ext4, Screen Resolution: 1440x900, System Layer: QEMU

Processor Notes: CPU Microcode: 0x1000065

Python Notes: Python 3.9.9

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Not affected + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retrpoline STIBP: disabled RSB filling + srbs: Not affected + tsx_async_abort: Not affected

virgl-async-draw_flush64

Processor: 8 x QEMU Virtual 2.5+ (8 Cores), Motherboard: QEMU Standard PC (Q35 + ICH9 2009) (rel-1.14.0-0-g155821a1990b-prebuilt.qemu.org BIOS), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 32GB, Disk: 97GB, Graphics: virgl 12288GB, Audio: Intel 82801I, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Gentoo/Linux, Kernel: 5.15.11-gentoo-x86_64 (x86_64), Display Server: X Server 1.20.14, OpenGL: 4.3 Mesa 22.0.0-devel (git-93c1701d04) (LLVM 13.0.0 D...), Compiler: GCC 11.2.0 + LLVM 13.0.0, File-System: ext4, Screen Resolution: 1440x900, System Layer: QEMU

Processor Notes: CPU Microcode: 0x1000065

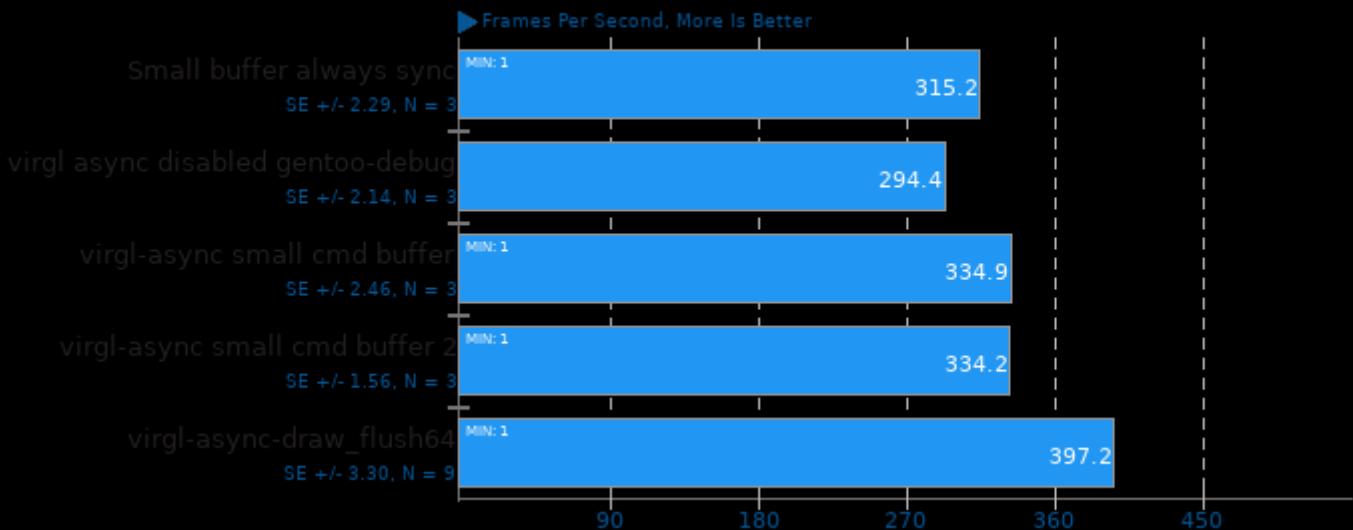
Python Notes: Python 3.9.9

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Not affected + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retrpoline STIBP: disabled RSB filling + srbs: Not affected + tsx_async_abort: Not affected

	Small buffer always sync	virgl async disabled gentoo-debug	virgl-async small cmd buffer	virgl-async small cmd buffer 2	virgl-async-dra w_flush64
OpenArena - 1024 x 768 (FPS)	315.2	294.4	334.9	334.2	397.2
Normalized	79.36%	74.12%	84.32%	84.14%	100%
Standard Deviation	1.3%	1.3%	1.3%	0.8%	2.5%
Unigine Heaven - 1024 x 768 - Fullscreen - OpenGL (FPS)	199.938	219.588	187.053	186.215	189.709
Normalized	91.05%	100%	85.18%	84.8%	86.39%
Standard Deviation	8.9%	0.4%	0.7%	1.6%	0.9%
Unigine Sanctuary - 1024 x 768 - Fullscreen (FPS)	204.821	222.299	201.158		477.017
Normalized	42.94%	46.6%	42.17%		100%
Standard Deviation	13.4%	15.2%	22%		9.3%
Unigine Tropics - 1024 x 768 - Fullscreen (FPS)	220.814		264.207		287.434
Normalized	76.82%		91.92%		100%
Standard Deviation	4.4%		5.4%		2.1%
Unigine Valley - 1024 x 768 - Fullscreen - OpenGL (FPS)	183.129		172.950		169.350
Normalized	100%		94.44%		92.48%
Standard Deviation	1.5%		0.7%		0.5%
Xonotic - 1024 x 768 - Ultimate (FPS)	249.3998352		270.6134473		268.8056172
Normalized	92.16%		100%		99.33%
Standard Deviation	0.8%		0.9%		1%
GLmark2 - 1024 x 768 (Score)	4670		4494		4656
Normalized	100%		96.23%		99.7%
GpuTest - 1024 x 768 - Fullscreen (Points)	11749		11748		28672
Normalized	40.98%		40.97%		100%
Standard Deviation	0.1%		0%		47.6%

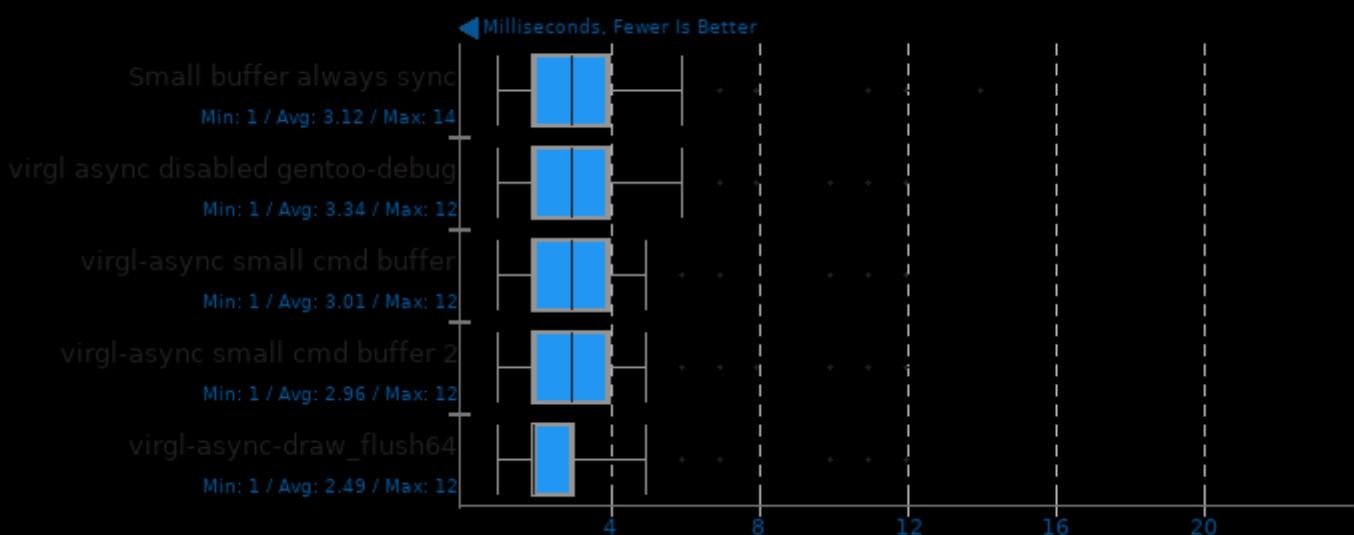
OpenArena 0.8.8

Resolution: 1024 x 768



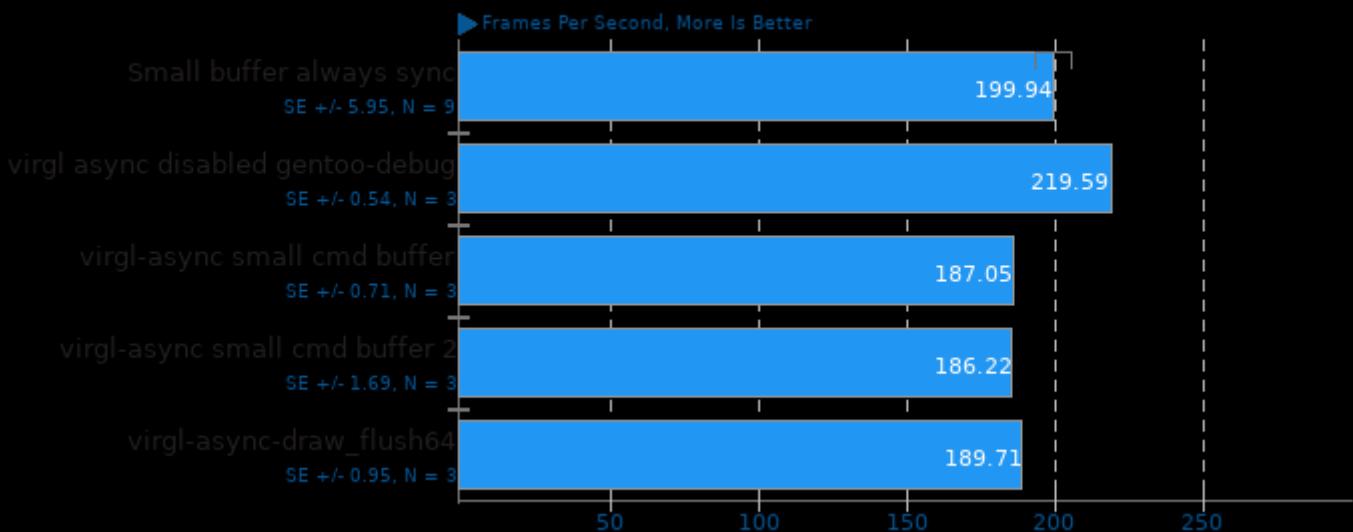
OpenArena 0.8.8

Resolution: 1024 x 768 - Total Frame Time



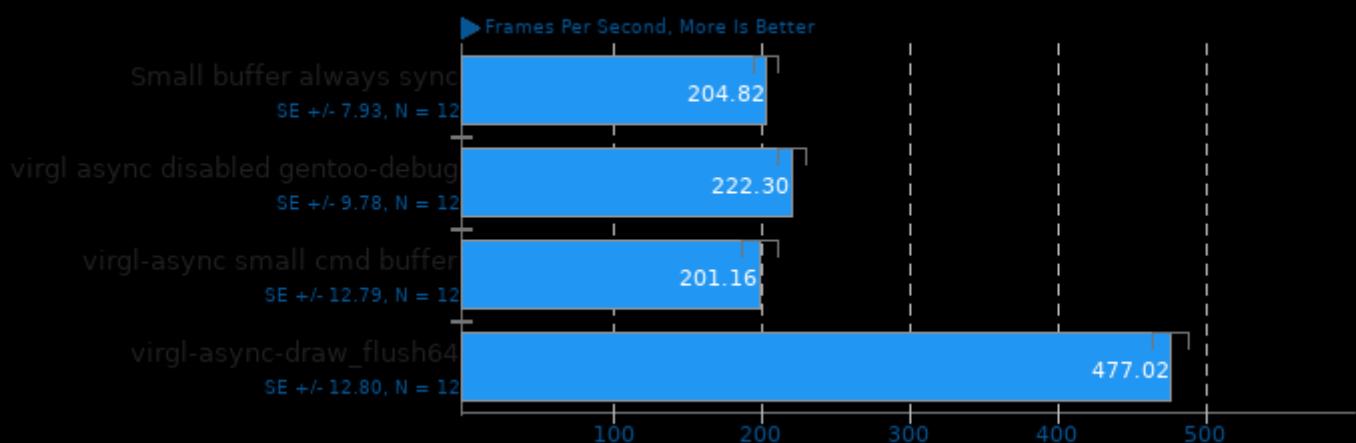
Unigine Heaven 4.0

Resolution: 1024 x 768 - Mode: Fullscreen - Renderer: OpenGL



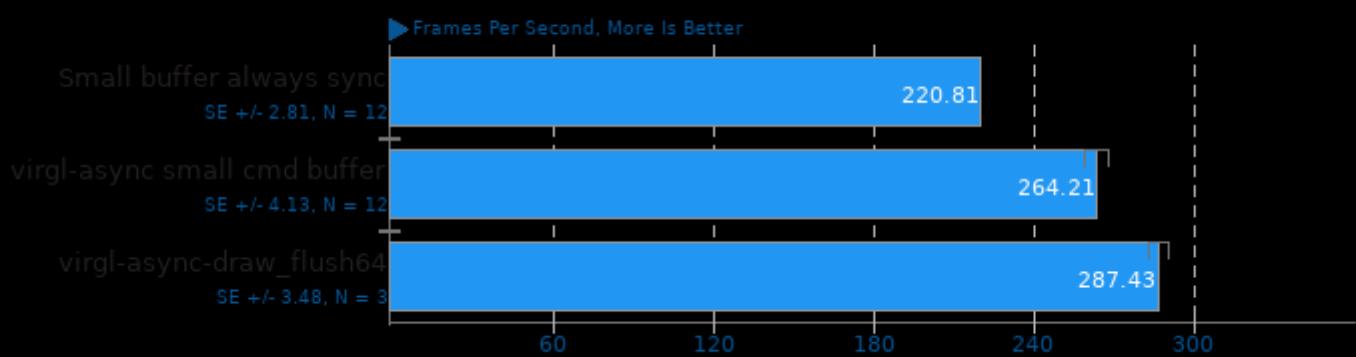
Unigine Sanctuary 2.3

Resolution: 1024 x 768 - Mode: Fullscreen



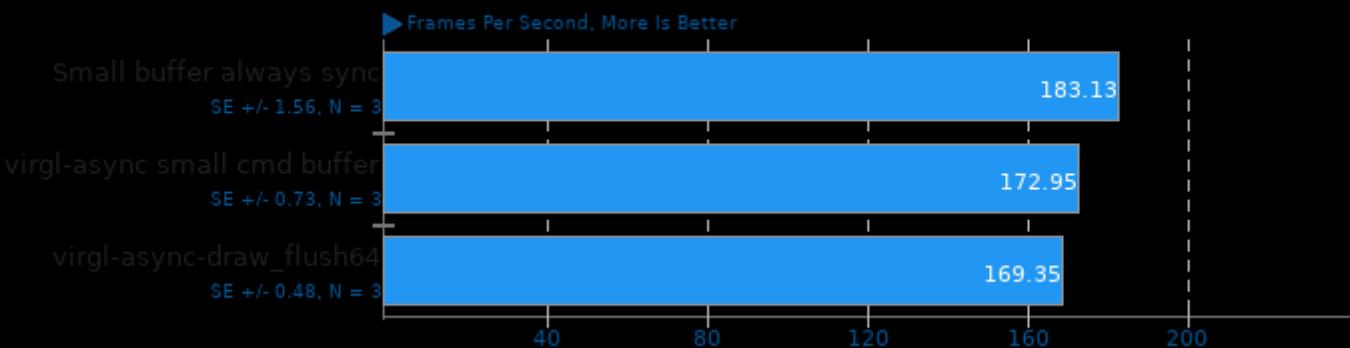
Unigine Tropics 1.3

Resolution: 1024 x 768 - Mode: Fullscreen



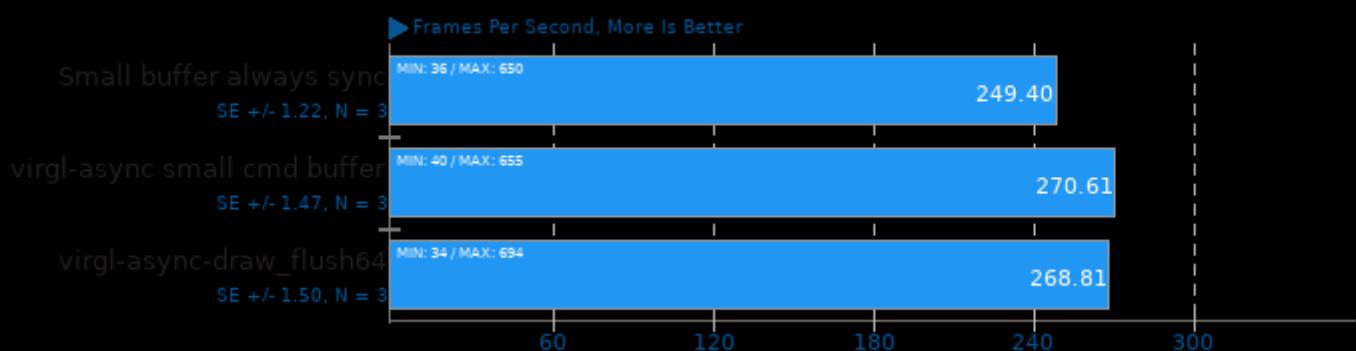
Unigine Valley 1.0

Resolution: 1024 x 768 - Mode: Fullscreen - Renderer: OpenGL



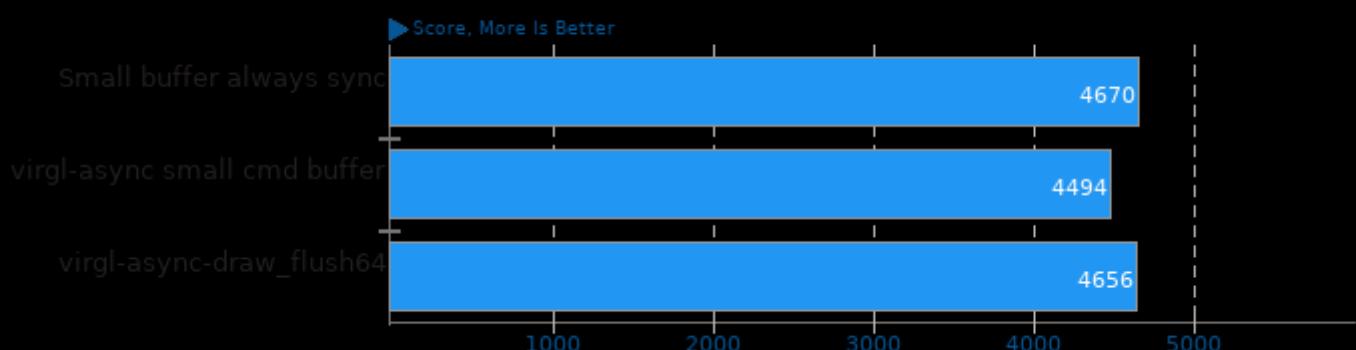
Xonotic 0.8.2

Resolution: 1024 x 768 - Effects Quality: Ultimate



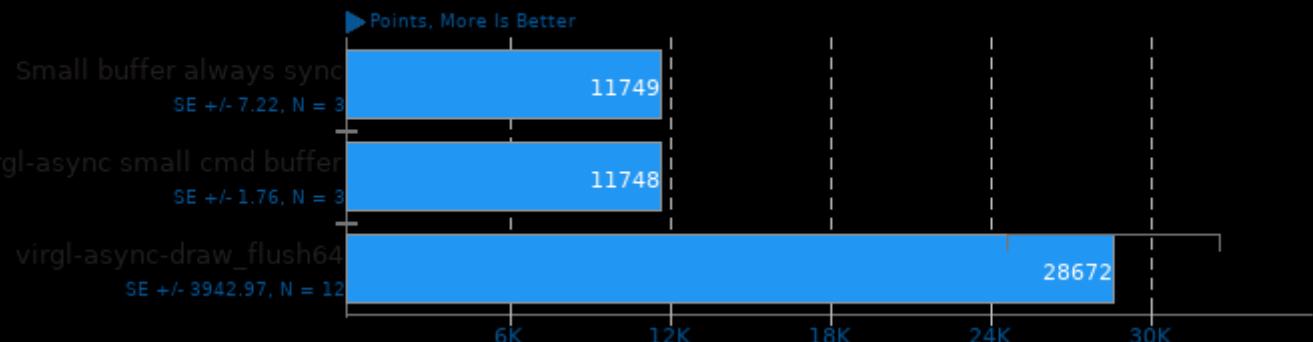
GLmark2 2021.08.30

Resolution: 1024 x 768

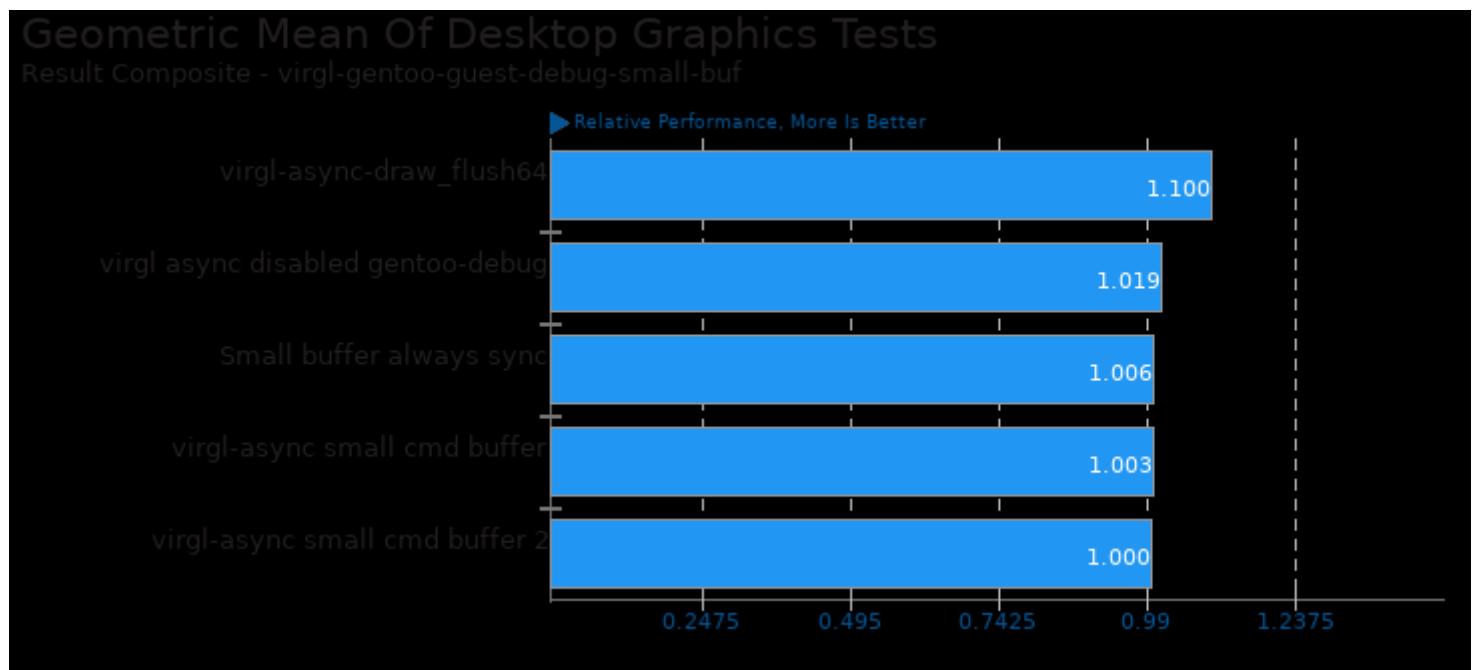


GpuTest 0.7.0

Resolution: 1024 x 768 - Mode: Fullscreen



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



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 16:49.