



virgl-gentoo-guest-debug-small-buf

Virgl testing async command stream

Automated Executive Summary

Small buffer always sync had the most wins, coming in first place for 37% of the tests.

Based on the geometric mean of all complete results, the fastest (virgl async disabled gentoo-debug) was 1.045x the speed of the slowest (virgl-async small cmd buffer). Small buffer always sync was 0.965x the speed of virgl async disabled gentoo-debug and virgl-async small cmd buffer was 0.992x the speed of Small buffer always sync.

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

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

	Small buffer always sync	virgl async disabled gentoo-debug	virgl-async small cmd buffer
GLmark2 - 1024 x 768 (Score)	4670		4494
Normalized	100%		96.23%
GpuTest - 1024 x 768 - Fullscreen (Points)	11749		11748
Normalized	100%		99.99%
Standard Deviation	0.1%		0%
OpenArena - 1024 x 768 (FPS)	315.2		294.4
Normalized	94.12%		87.91%
Standard Deviation	1.3%		1.3%
Unigine Heaven - 1024 x 768 - Fullscreen - OpenGL (FPS)	199.938		334.9
Normalized	91.05%		100%
Standard Deviation	8.9%		0.4%
Unigine Sanctuary - 1024 x 768 - Fullscreen (FPS)	204.821		219.588
Normalized	92.14%		85.18%
Standard Deviation	13.4%		0.7%
Unigine Tropics - 1024 x 768 - Fullscreen	220.814		201.158
Normalized	83.58%		100%
Standard Deviation	4.4%		5.4%
			264.207

Unigine Valley - 1024 x 768 - Fullscreen - OpenGL (FPS)**183.129****172.950**

Normalized 100%

Standard Deviation 1.5%

Xonotic - 1024 x 768 - Ultimate (FPS)**249.3998352**

94.44%

0.7%

270.6134473

Normalized 92.16%

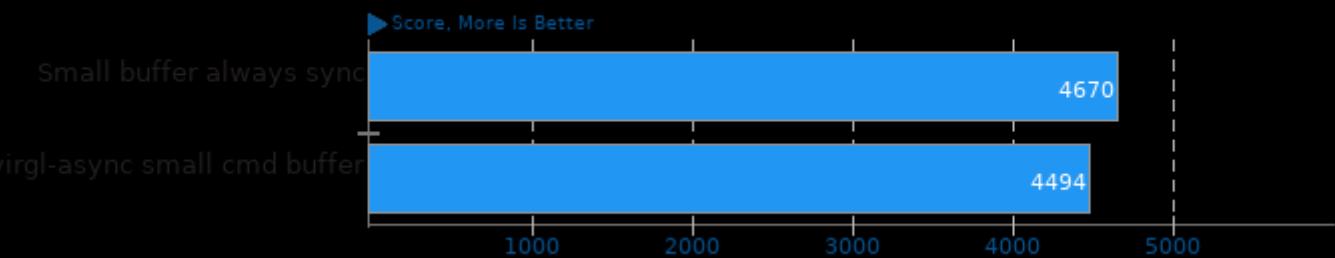
Standard Deviation 0.8%

100%

0.9%

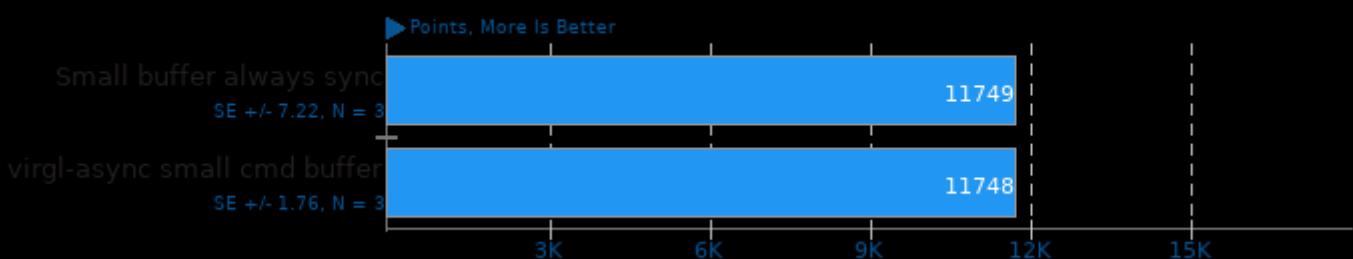
GLmark2 2021.08.30

Resolution: 1024 x 768



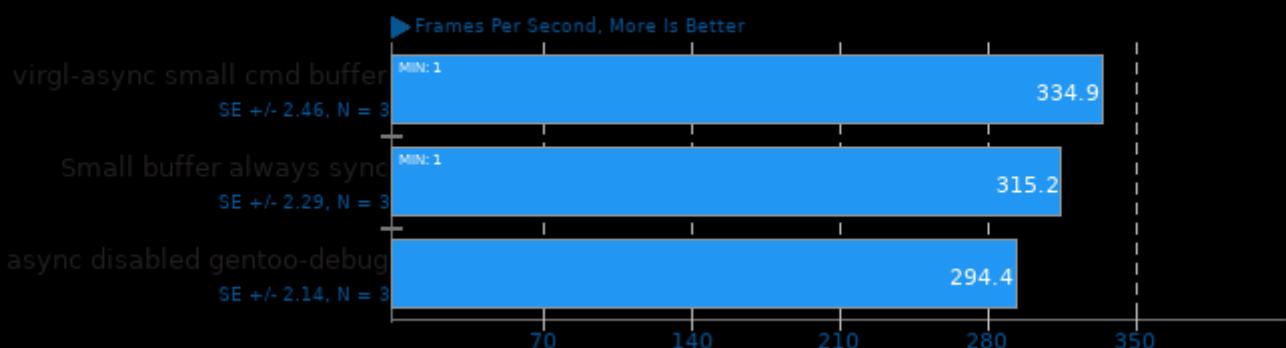
GpuTest 0.7.0

Resolution: 1024 x 768 - Mode: Fullscreen



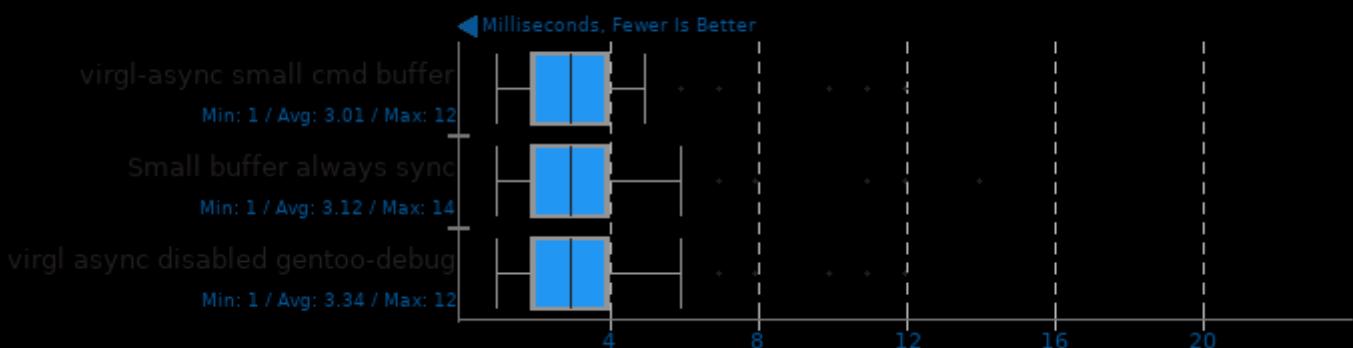
OpenArena 0.8.8

Resolution: 1024 x 768



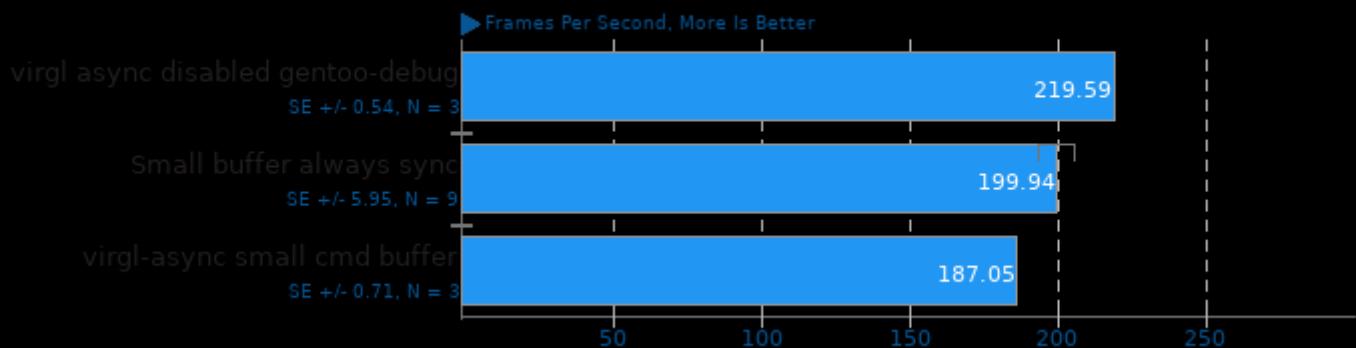
OpenArena 0.8.8

Resolution: 1024 x 768 - Total Frame Time



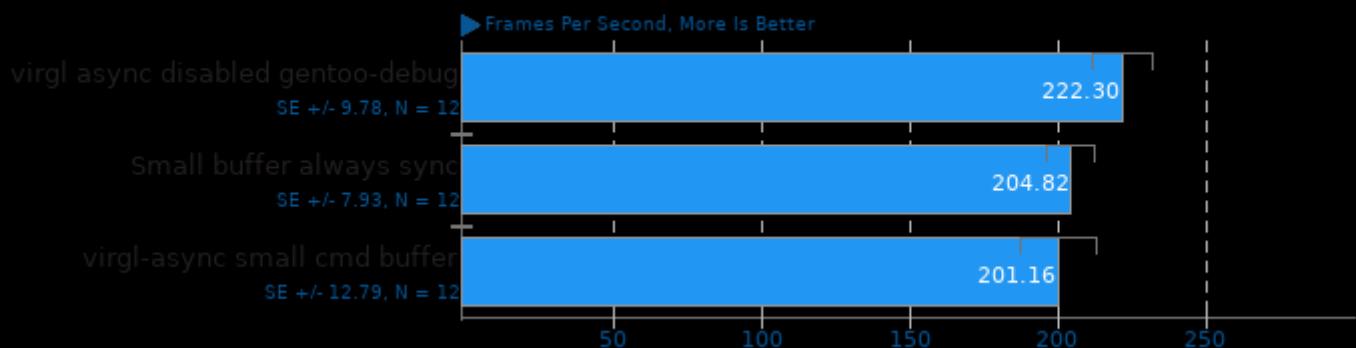
Unigine Heaven 4.0

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



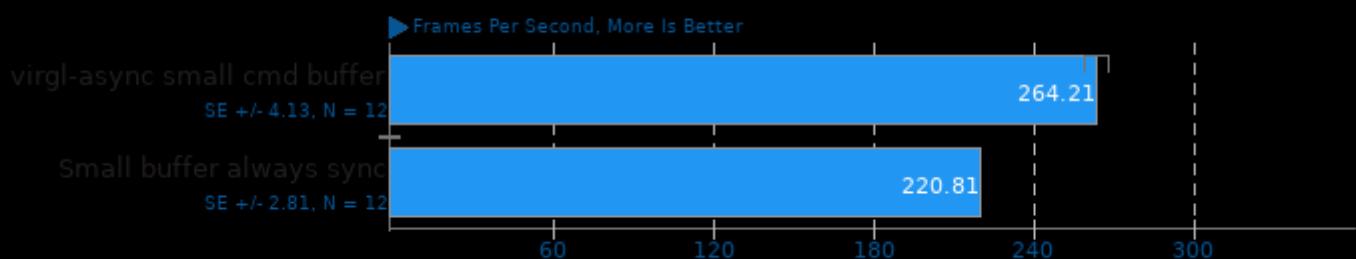
Unigine Sanctuary 2.3

Resolution: 1024 x 768 - Mode: Fullscreen



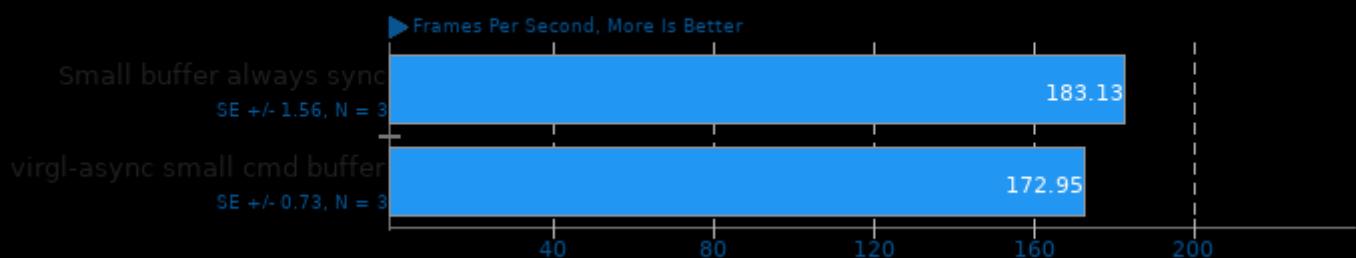
Unigine Tropics 1.3

Resolution: 1024 x 768 - Mode: Fullscreen



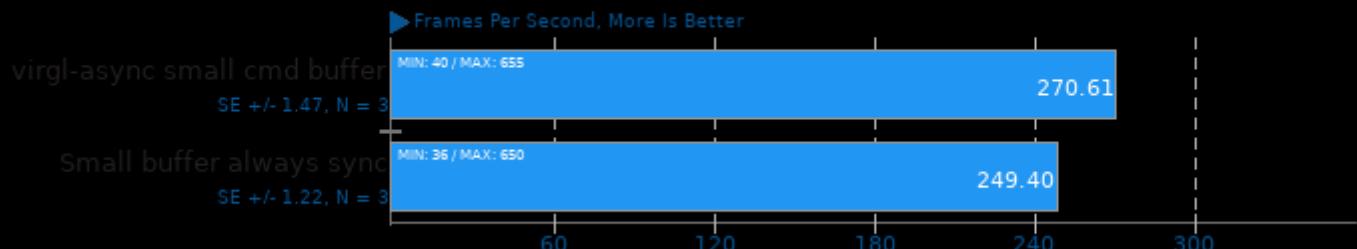
Unigine Valley 1.0

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



Xonotic 0.8.2

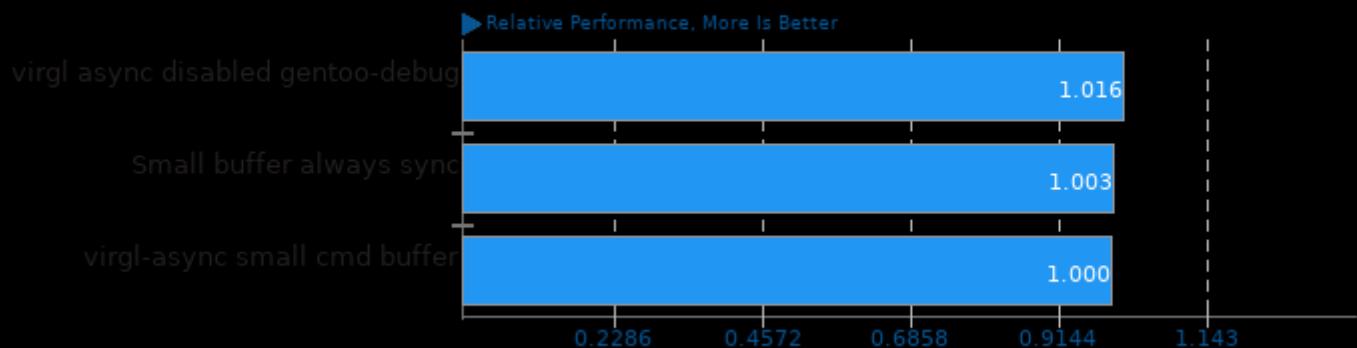
Resolution: 1024 x 768 - Effects Quality: Ultimate



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

Geometric Mean Of Desktop Graphics Tests

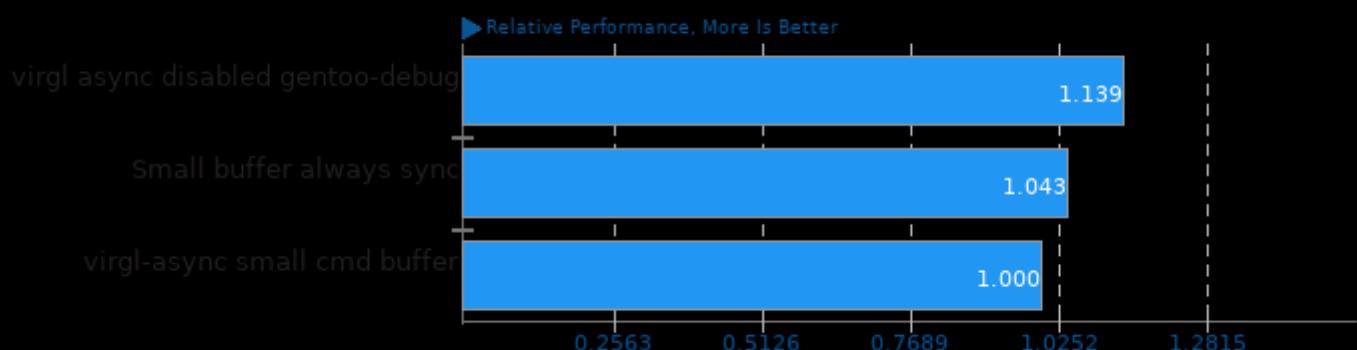
Result Composite - virgl-gentoo-guest-debug-small-buf



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

Geometric Mean Of OpenGL Demos Test Suite

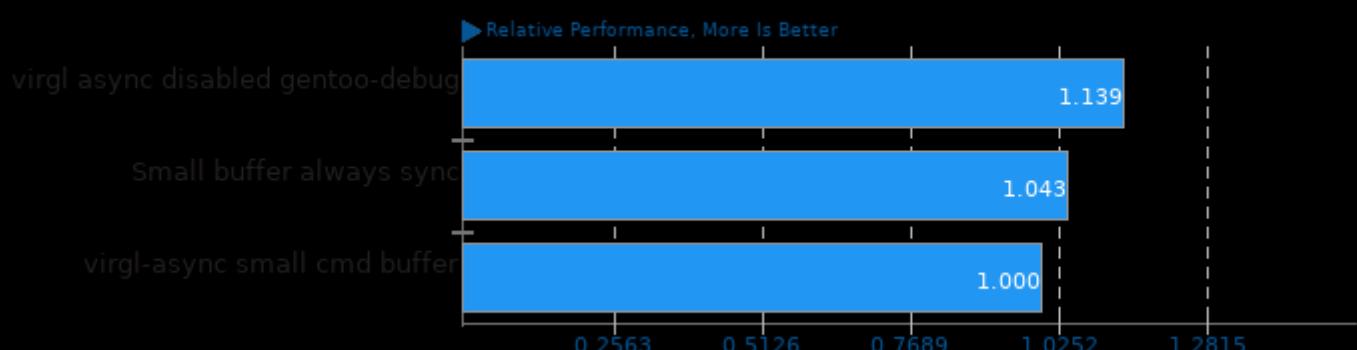
Result Composite - virgl-gentoo-guest-debug-small-buf



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

Geometric Mean Of Unigine Test Suite

Result Composite - virgl-gentoo-guest-debug-small-buf



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 01:16.