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virgl-gentoo-guest-debug-small-buf

Virgl testing async command stream

Automated Executive Summary

virgl-async small cmd buffer 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 retpoline STIBP: disabled RSB filling + srbds: 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 retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	Small buffer always sync	virgl async disabled gentoo-debug	virgl-async small cmd buffer
OpenArena - 1024 x 768 (FPS)	315.2	**294.4**	**334.9**
Normalized	94.12%	87.91%	100%
Standard Deviation	1.3%	1.3%	1.3%
Unigine Heaven - 1024 x 768 - Fullscreen - OpenGL (FPS)	199.938	**219.588**	**187.053**
Normalized	91.05%	100%	85.18%
Standard Deviation	8.9%	0.4%	0.7%
Unigine Sanctuary - 1024 x 768 - Fullscreen (FPS)	204.821	**222.299**	**201.158**
Normalized	92.14%	100%	90.49%
Standard Deviation	13.4%	15.2%	22%
Unigine Tropics - 1024 x 768 - Fullscreen	**220.814**		**264.207**
Normalized	83.58%		100%
Standard Deviation	4.4%		5.4%
Unigine Valley - 1024 x 768 - Fullscreen - OpenGL (FPS)	**183.129**		**172.950**
Normalized	100%		94.44%
Standard Deviation	1.5%		0.7%
Xonotic - 1024 x 768 - Ultimate (FPS)	**249.3998352**		**270.6134473**

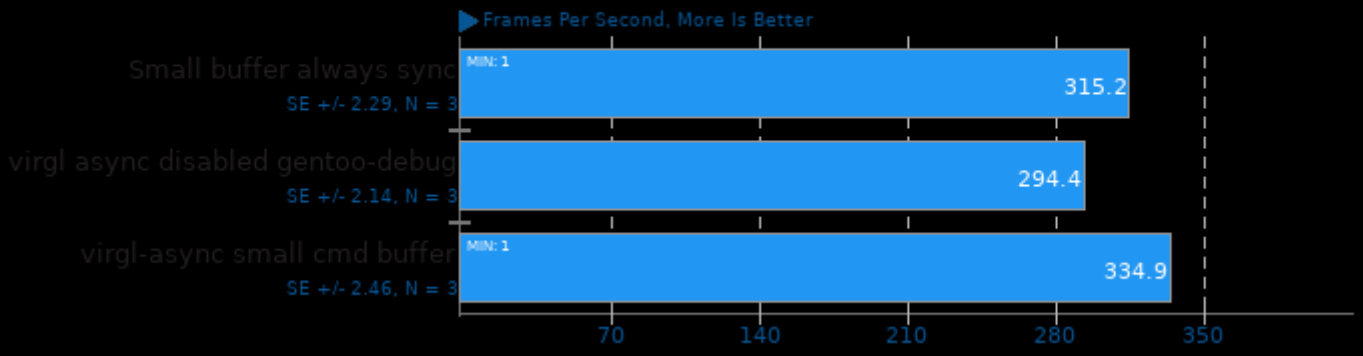
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Normalized	92.16%	100%
Standard Deviation	0.8%	0.9%
GpuTest - 1024 x 768 - Fullscreen (Points)	**11749**	**11748**
Normalized	100%	99.99%
Standard Deviation	0.1%	0%
GLmark2 - 1024 x 768 (Score)	**4670**	**4494**
Normalized	100%	96.23%

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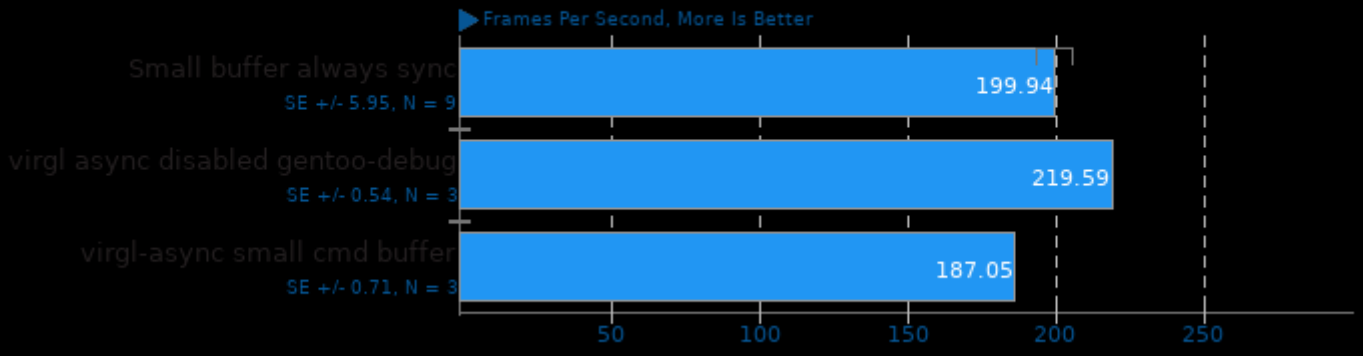
OpenArena 0.8.8

Resolution: 1024 x 768



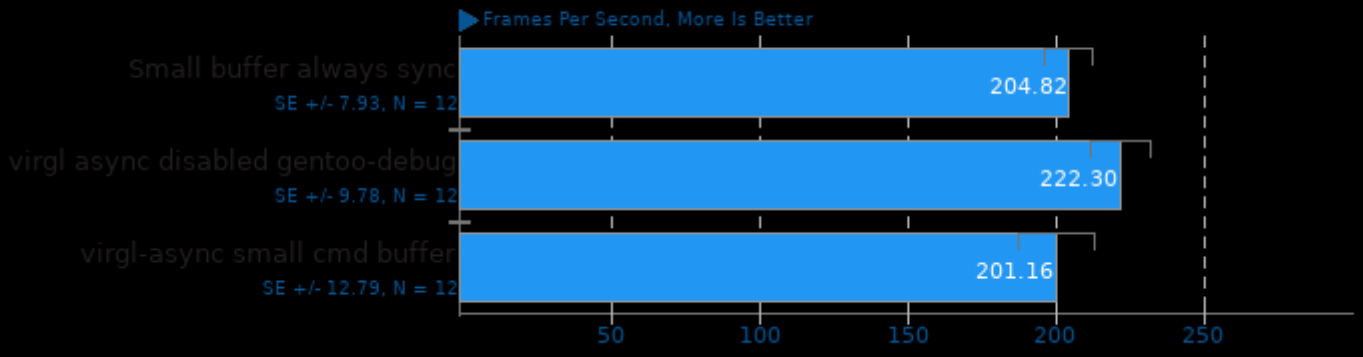
Unigine Heaven 4.0

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



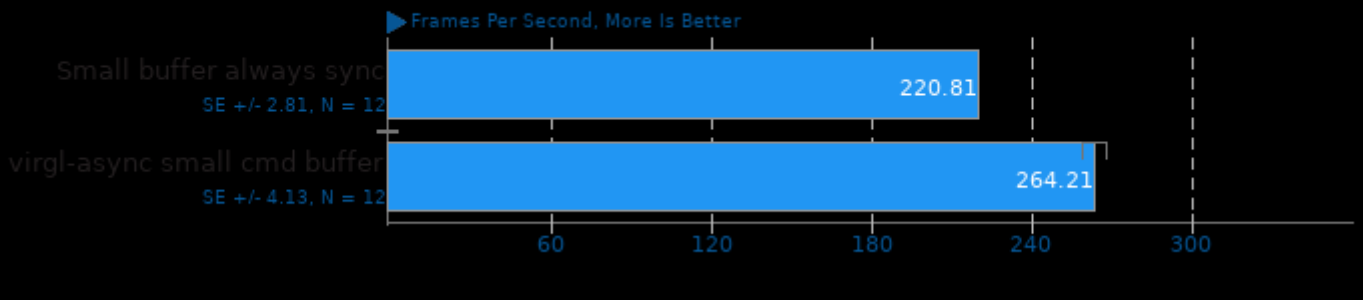
Unigine Sanctuary 2.3

Resolution: 1024 x 768 - Mode: Fullscreen

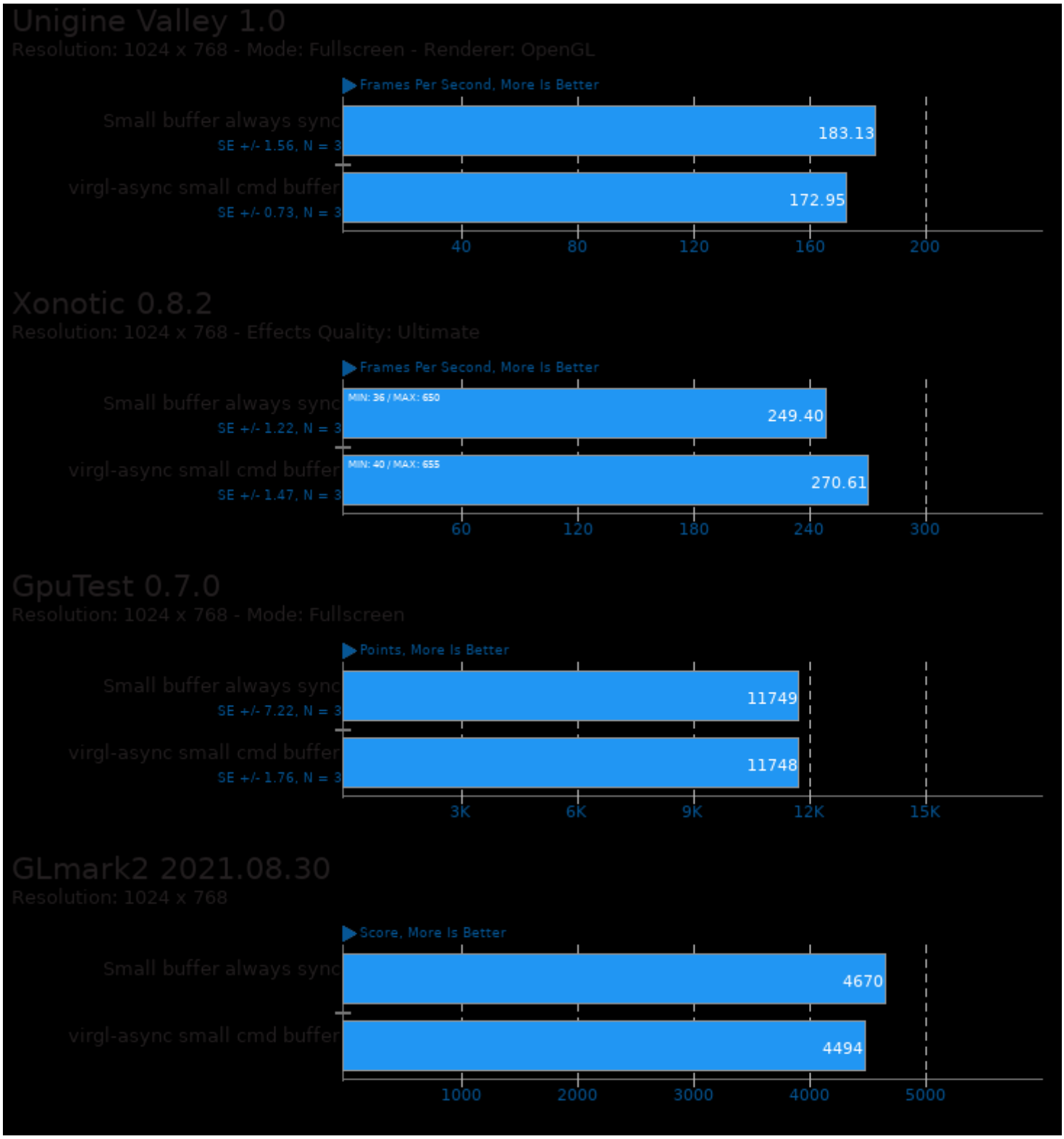


Unigine Tropics 1.3

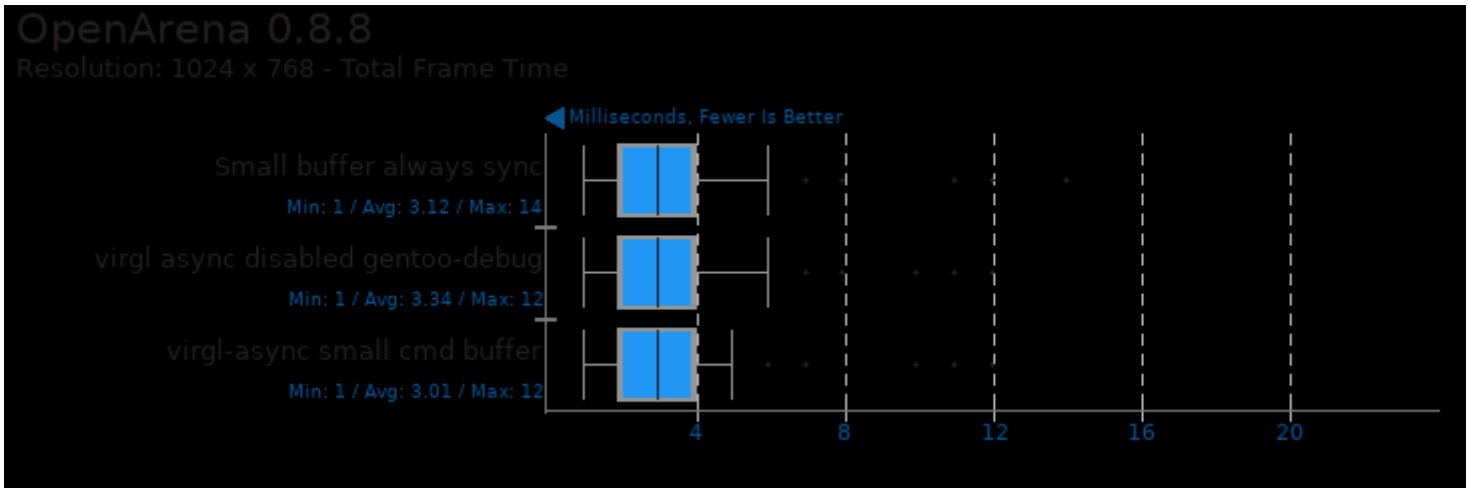
Resolution: 1024 x 768 - Mode: Fullscreen



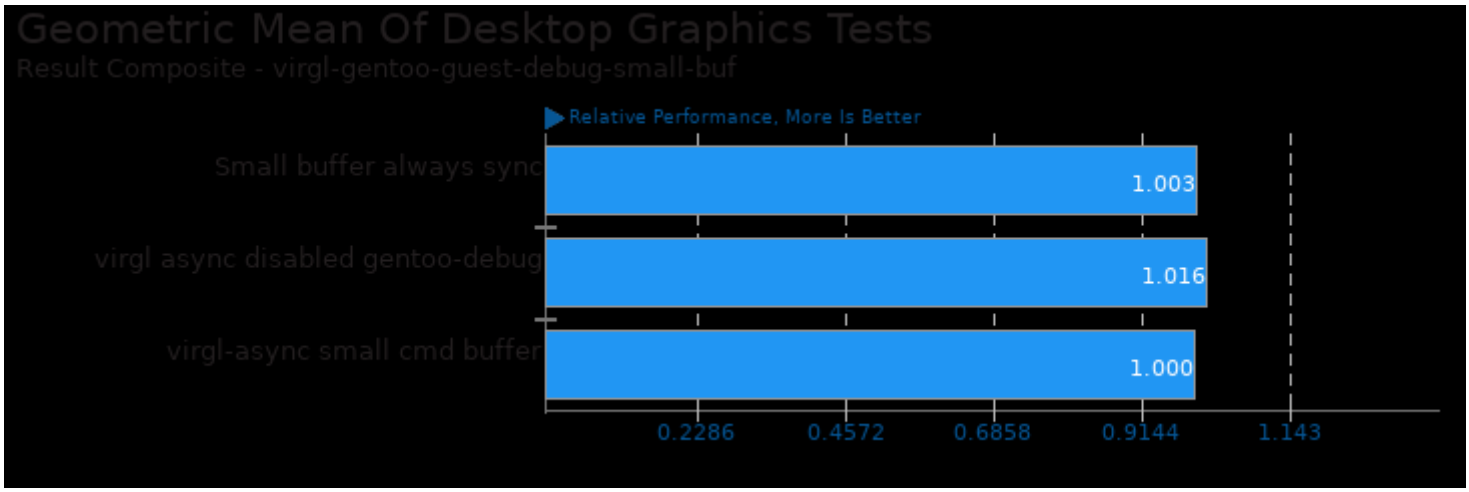
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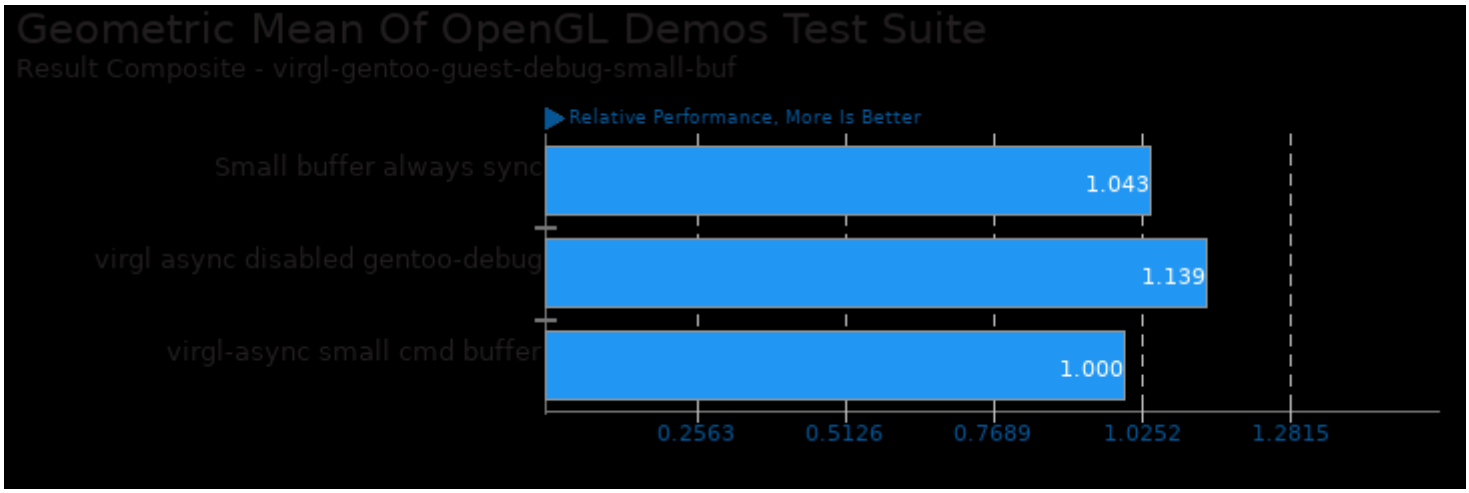
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These geometric means are based upon test groupings / test suites for this result file.



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



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



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 10:13.