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virgl-async-cmd-volteer

Virgl testing on ChromeOS

Test Systems:

baseline host all

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Google Drobit (Google_Drobit.13672.206.0 BIOS), Disk: 512GB SAMSUNG MZVLQ512HALU-00000 + 988GB SanDisk 3.2Gen1, Graphics: Intel Xe TGL GT2 3GB (1300MHz)

OS: Debian 11, Kernel: 5.4.191-18501-g8a73dd4872a1 (x86_64), Desktop: Xfce 4.16, Display Server: X Server, OpenGL: 4.6 Mesa 21.3.8, Vulkan: 1.2.195, Compiler: GCC 11.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0x9a
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

virgl-async-cmd-volteer

Borealis default mesa

Processor: Intel Core i7-1165G7 (8 Cores), Motherboard: ChromiumOS crosvm, Chipset: Intel 440FX 82441FX PMC, Memory: 16GB, Disk: 800GB, Graphics: virgl Intel Xe TGL GT2

OS: Arch rolling, Kernel: 5.15.16-01331-gb6c5afc81904 (x86_64), OpenGL: 4.5 Mesa 22.2.0-devel (git-c9f68361a8), Compiler: GCC 11.2.0 + LLVM 13.0.1, File-System: btrfs, Screen Resolution: 1920x1080, System Layer: docker

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: MESA_REPO=git@gitlab.freedesktop.org:gerddie/mesa.git MESA_BRANCH=async-submit-only MESA_SOURCE_PREFIX=/home/chronos/mesa
Processor Notes: CPU Microcode: 0x1
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Borealis async command submission

Processor: Intel Core i7-1165G7 (8 Cores), Motherboard: ChromiumOS crosvm, Chipset: Intel 440FX 82441FX PMC, Memory: 16GB, Disk: 800GB, Graphics: virgl Intel Xe TGL GT2

OS: Arch rolling, Kernel: 5.15.16-01331-gb6c5afc81904 (x86_64), OpenGL: 4.5 Mesa 22.2.0-devel (git-fb68750067), Compiler: GCC 11.2.0 + LLVM 13.0.1, File-System: btrfs, Screen Resolution: 1920x1080, System Layer: docker

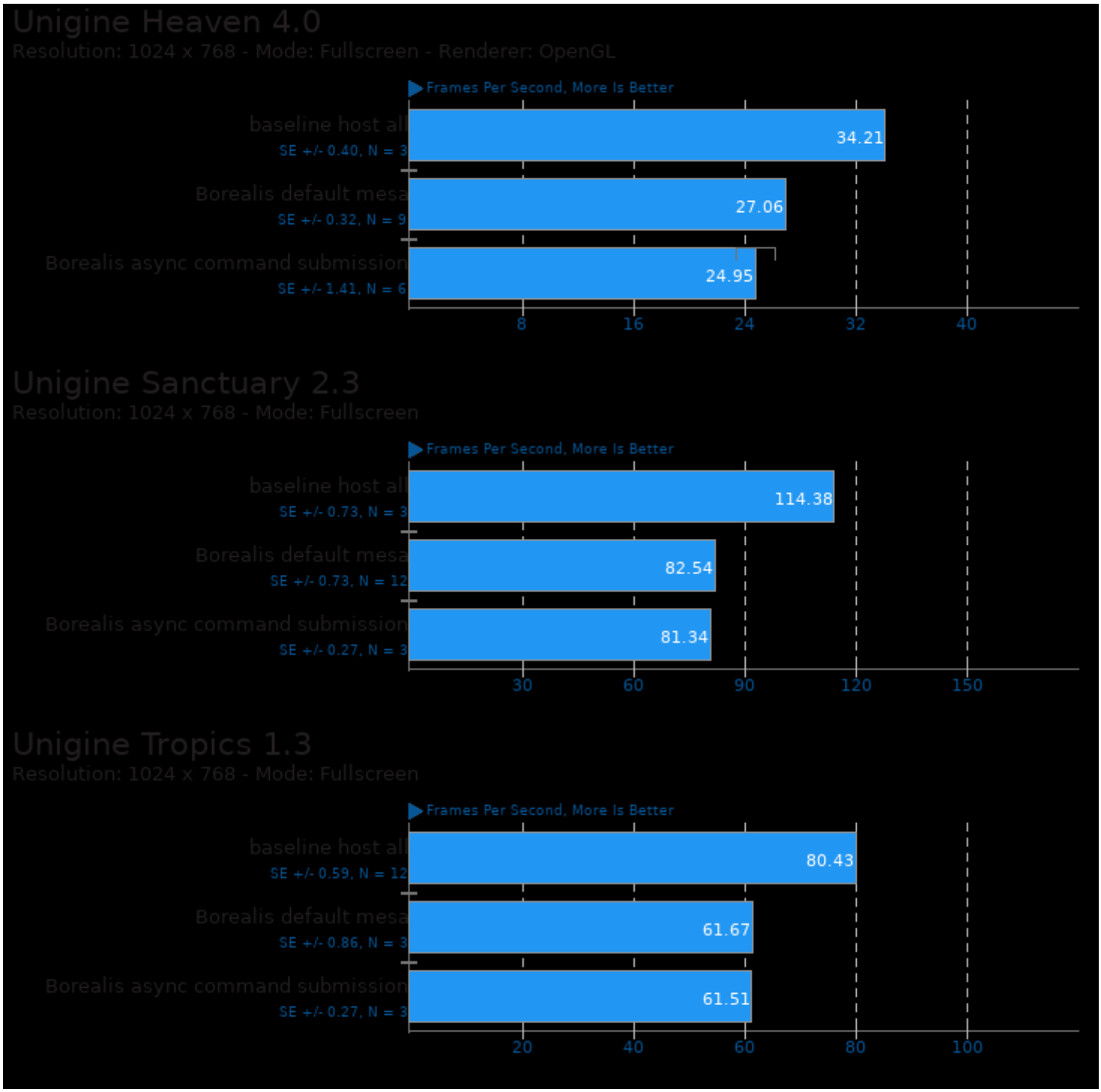
Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: MESA_REPO=git@gitlab.freedesktop.org:gerddie/mesa.git MESA_BRANCH=async-submit-only LIBGL_DRIVERS_PATH=/home/chronos/mesa/install/lib/dri:/home/chronos/mesa/install/lib32/dri: MESA_SOURCE_PREFIX=/home/chronos/mesa
Processor Notes: CPU Microcode: 0x1
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	baseline host all	Borealis default mesa	Borealis async command
Unigine Heaven - 1024 x 768 - Fullscreen - OpenGL (FPS)	**34.2113**	27.0590	**24.9512**
Normalized	100%	79.09%	72.93%
Standard Deviation	2%	3.5%	13.8%
Unigine Sanctuary - 1024 x 768 - Fullscreen (FPS)	**114.377**	82.5352	**81.3405**
Normalized	100%	72.16%	71.12%
Standard Deviation	1.1%	3.1%	0.6%
Unigine Tropics - 1024 x 768 - Fullscreen	**80.4345**	61.6656	**61.5085**
Normalized	100%	76.67%	76.47%
Standard Deviation	2.6%	2.4%	0.8%
Unigine Valley - 1024 x 768 - Fullscreen - OpenGL (FPS)	**34.8859**	28.8471	**26.8113**
Normalized	100%	82.69%	76.85%
Standard Deviation	2.4%	0.2%	3.2%
Xonotic - 1024 x 768 - Ultimate (FPS)	**80.5466546**	**61.2714369**	64.5552774
Normalized	100%	76.07%	80.15%
Standard Deviation	0.9%	1.7%	1.3%

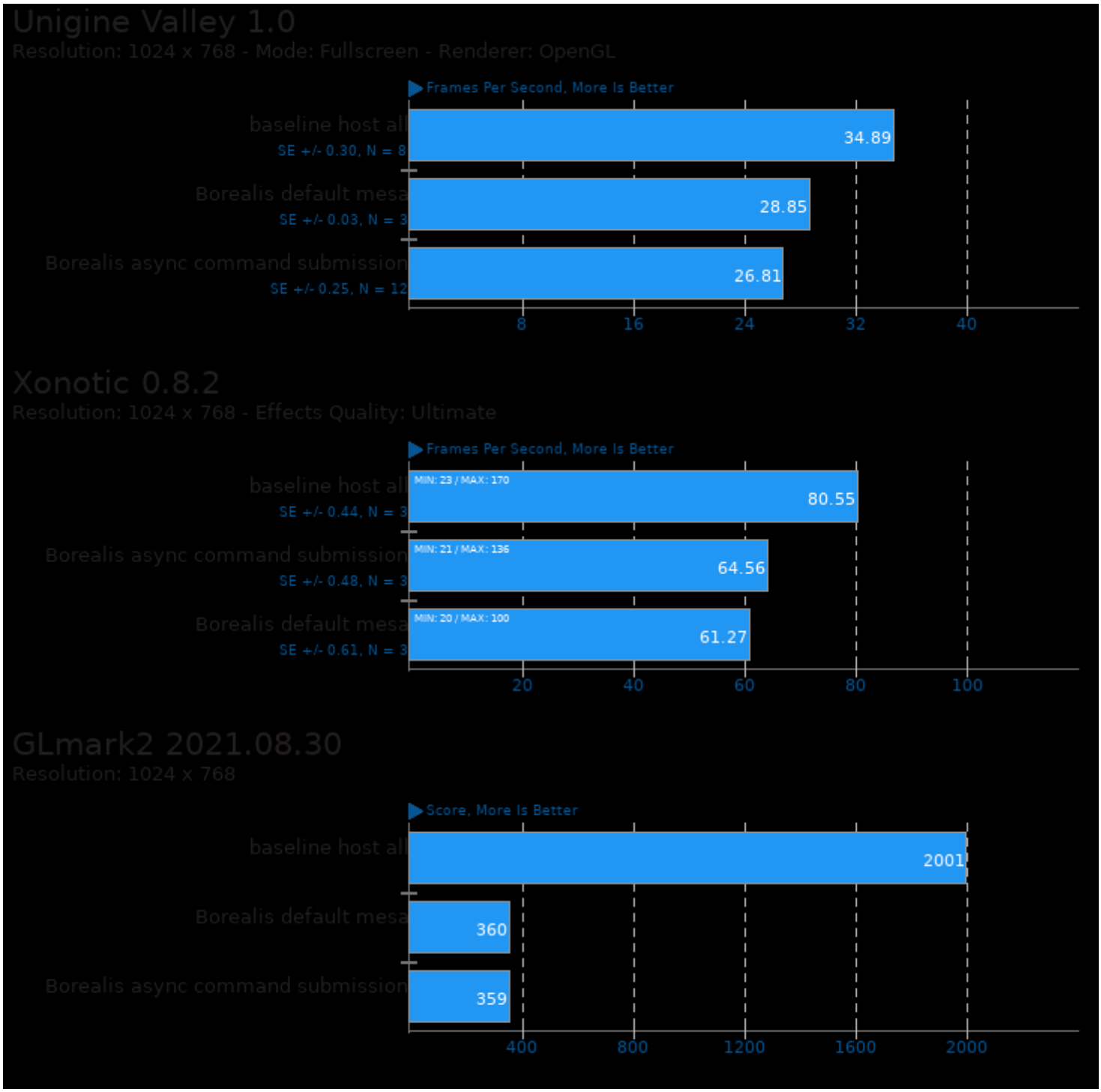
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GLmark2 - 1024 x 768 (Score)	**2001**	360	**359**
Normalized	100%	17.99%	17.94%
GpuTest - 1024 x 768 - Fullscreen (Points)	**2278**	**2166**	2179
Normalized	100%	95.08%	95.65%
Standard Deviation	0.5%	1.3%	2.3%

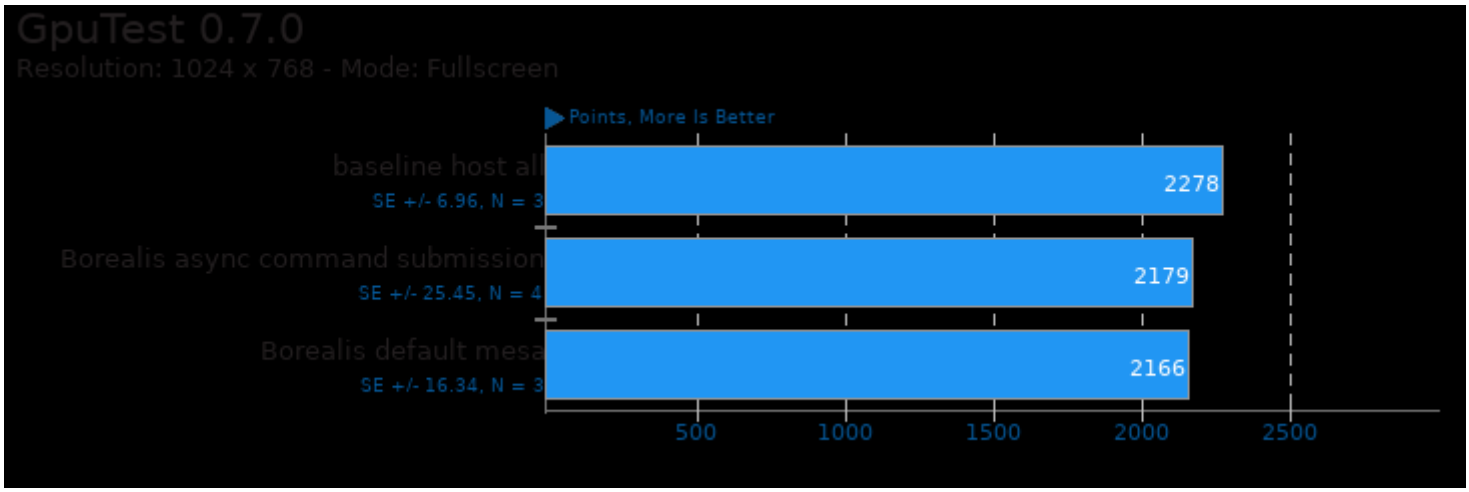
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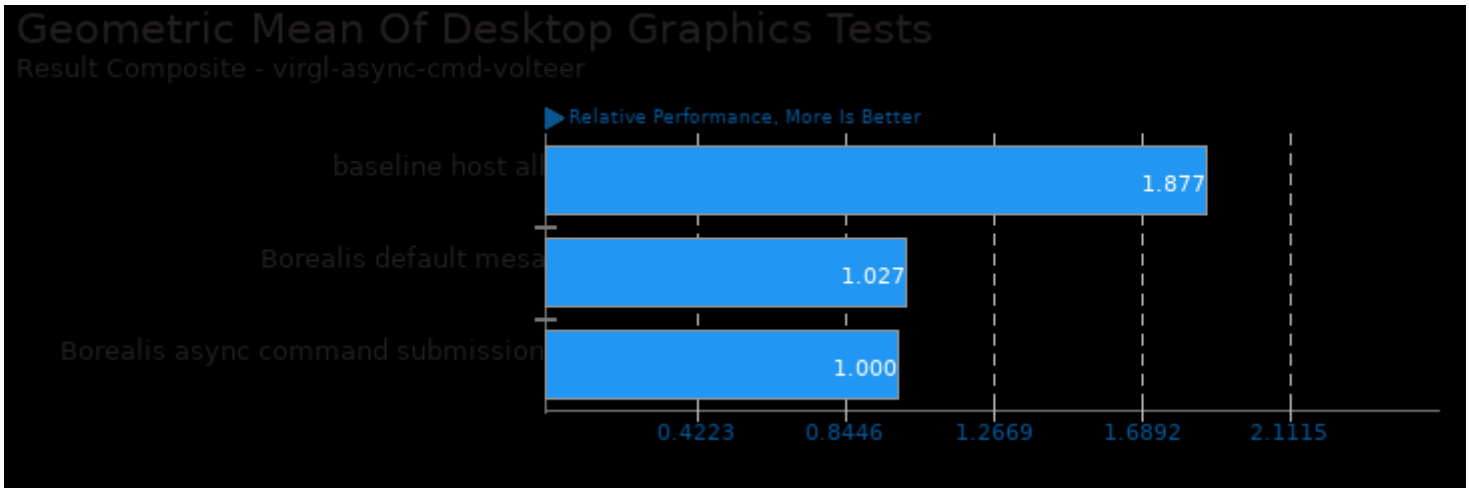
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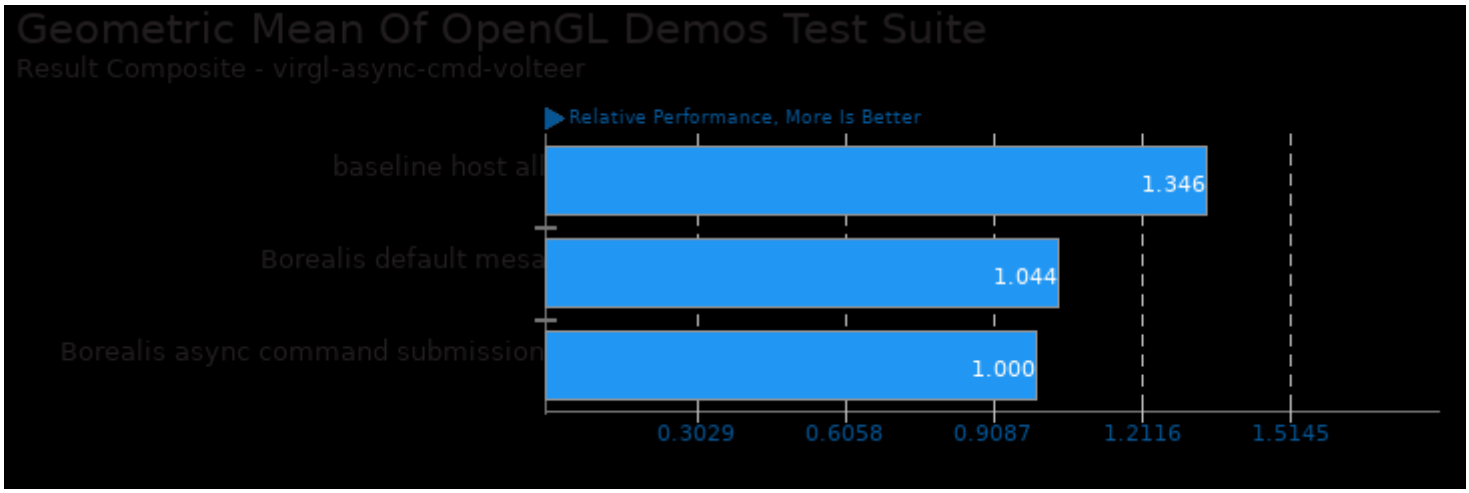
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These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/xonotic, pts/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 Thursday, 28 March 2024 13:44.