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Virgl1024x768

All optimizations without uniform uploads opt and shader skipping

Automated Executive Summary

All-opts-revised had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (All-opts-revised) was 1.015x the speed of the slowest (All-opts). Baseline was 0.994x the speed of All-opts-revised and All-opts was 0.991x the speed of Baseline.

Test Systems:

All-opts

Baseline

Processor: 5 x QEMU Virtual 2.5+ (5 Cores), Motherboard: QEMU Standard PC (Q35 + ICH9 2009) (?-20190711_202441-buildvm-armv7-10.arm.fedoraproject.org-2.fc31 BIOS), Chipset: Intel 82G33/G31/P35/P31 +

Virgl1024x768

ICH9, Memory: 8GB, Disk: 49GB, Graphics: virgl, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Ubuntu 20.10, Kernel: 5.8.0-40-generic (x86_64), Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 4.3 Mesa 21.1.0-devel (git-10b3eecd36), Compiler: GCC 10.2.0 + LLVM 11.0.0, File-System: ext4, Screen Resolution: 1440x900, System Layer: KVM QEMU

Processor Notes: CPU Microcode: 0x1000065
Python Notes: Python 2.7.18 + Python 3.8.6
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + 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

All-opts-revised

Processor: 5 x QEMU Virtual 2.5+ (5 Cores), Motherboard: QEMU Standard PC (Q35 + ICH9 2009) (rel-1.12.1-0-ga5cab58e9a3f-prebuilt.qemu.org BIOS), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 8GB, Disk: 49GB, Graphics: virgl, Monitor: QEMU Monitor, Network: Red Hat Virtio device

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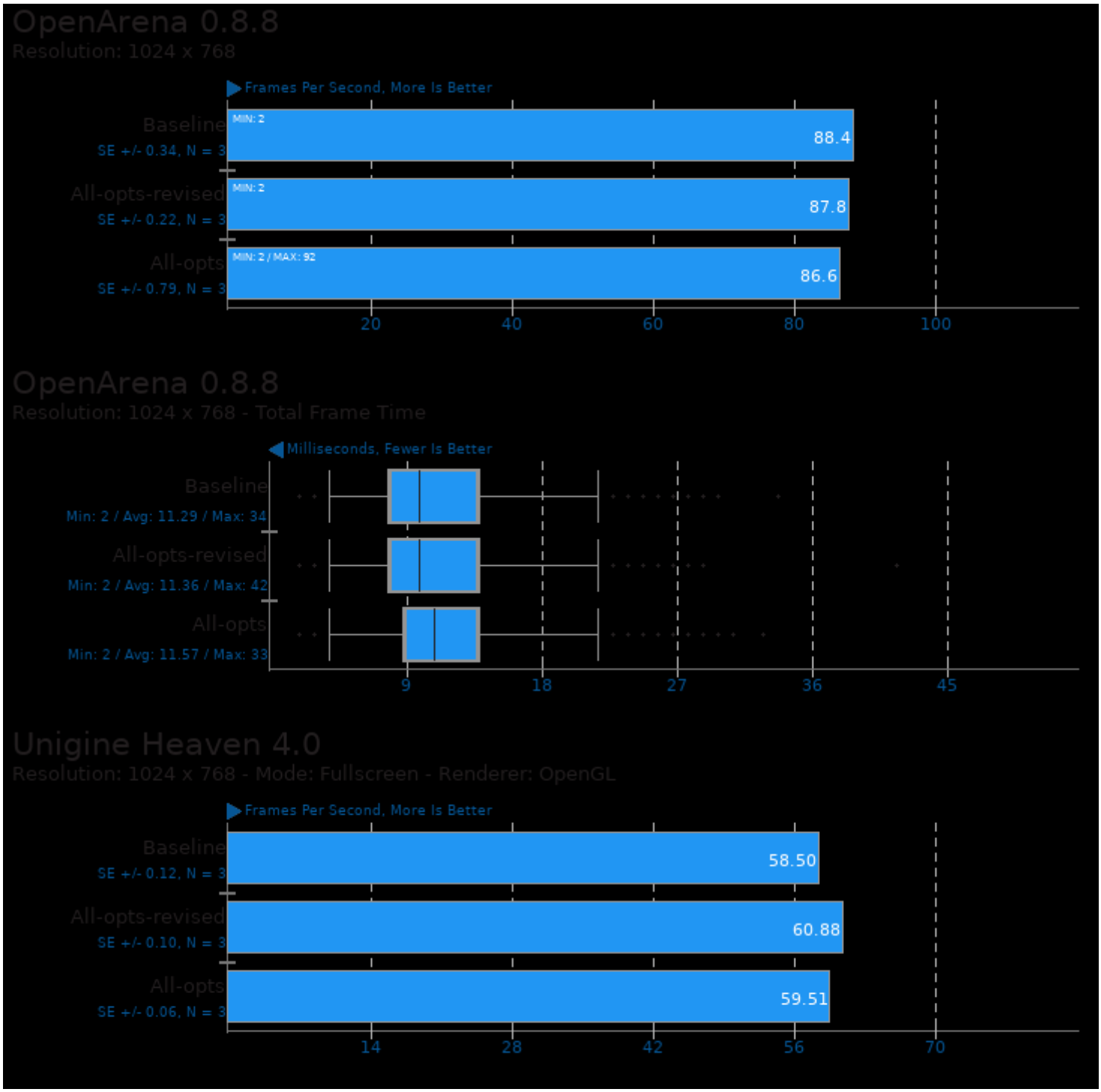
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	All-opts	Baseline	All-opts-revised
OpenArena - 1024 x 768 (FPS)	**86.6**	**88.4**	87.8
Normalized	97.96%	100%	99.32%
Standard Deviation	1.6%	0.7%	0.4%
Unigine Heaven - 1024 x 768 - Fullscreen - OpenGL (FPS)	59.5055	**58.4973**	**60.8824**
Normalized	97.74%	96.08%	100%
Standard Deviation	0.2%	0.4%	0.3%
Unigine Sanctuary - 1024 x 768 - Fullscreen (FPS)	**130.222**	132.690	**133.706**
Normalized	97.39%	99.24%	100%
Standard Deviation	4.1%	1.3%	6.2%
Unigine Tropics - 1024 x 768 - Fullscreen	**111.165**	111.710	**113.171**
Normalized	98.23%	98.71%	100%
Standard Deviation	0.3%	1.1%	0.2%
Unigine Valley - 1024 x 768 - Fullscreen - OpenGL (FPS)	39.8850	**39.2209**	**40.4970**
Normalized	98.49%	96.85%	100%
Standard Deviation	1.7%	0.8%	0.1%
Xonotic - 1024 x 768 - Ultimate (FPS)	**74.2739851**	**75.3775912**	74.6575138
Normalized	98.54%	100%	99.04%
Standard Deviation	0.5%	0.3%	0.3%
GLmark2 - 1024 x 768 (Score)	**1139**	**1200**	1169

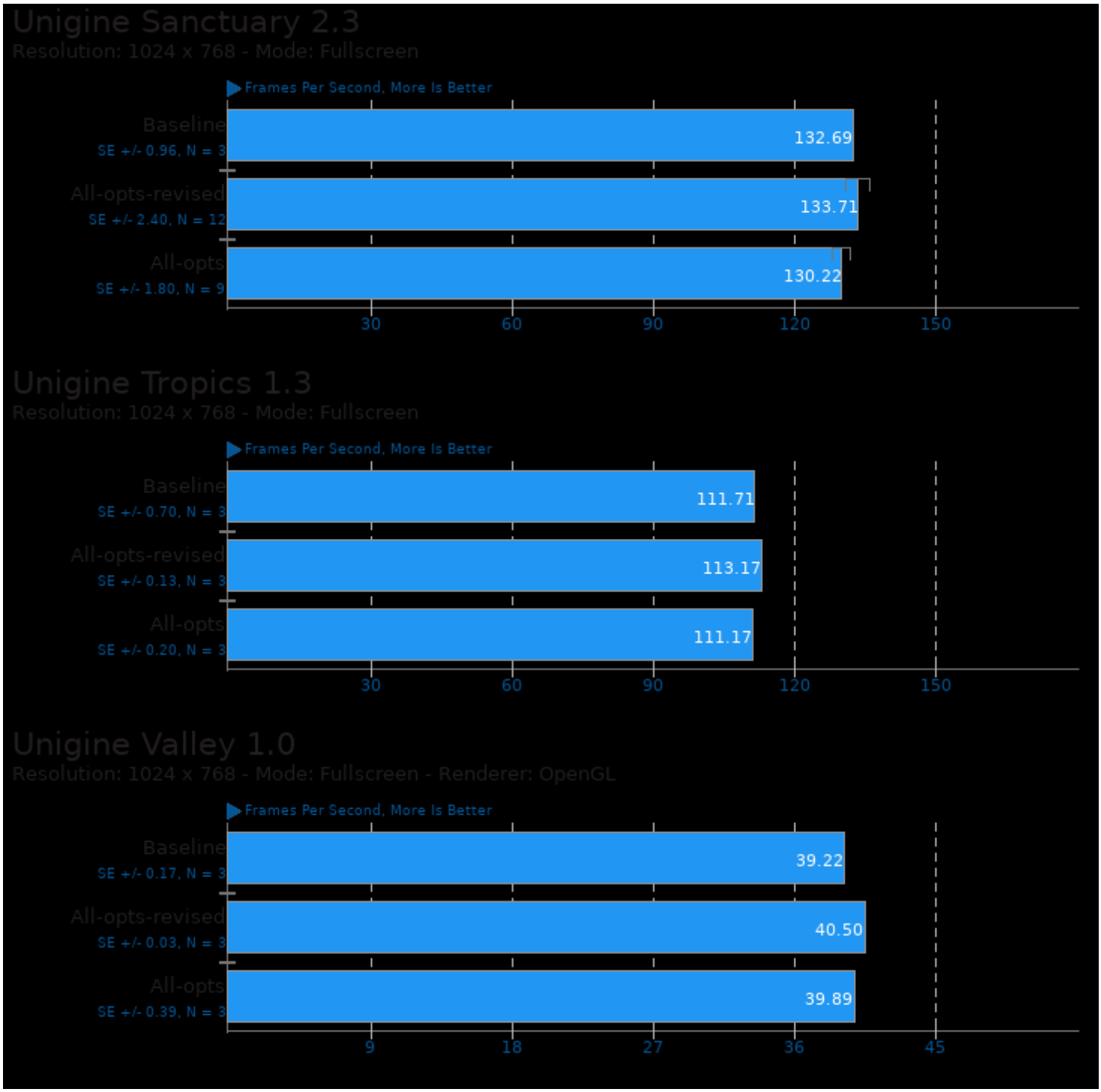
Virgl1024x768

Normalized	94.92%	100%	97.42%
GpuTest - 1024 x 768 - Fullscreen (Points)	**6462**	6440	**6430**
Normalized	100%	99.66%	99.5%
Standard Deviation	1.9%	1.1%	2.4%

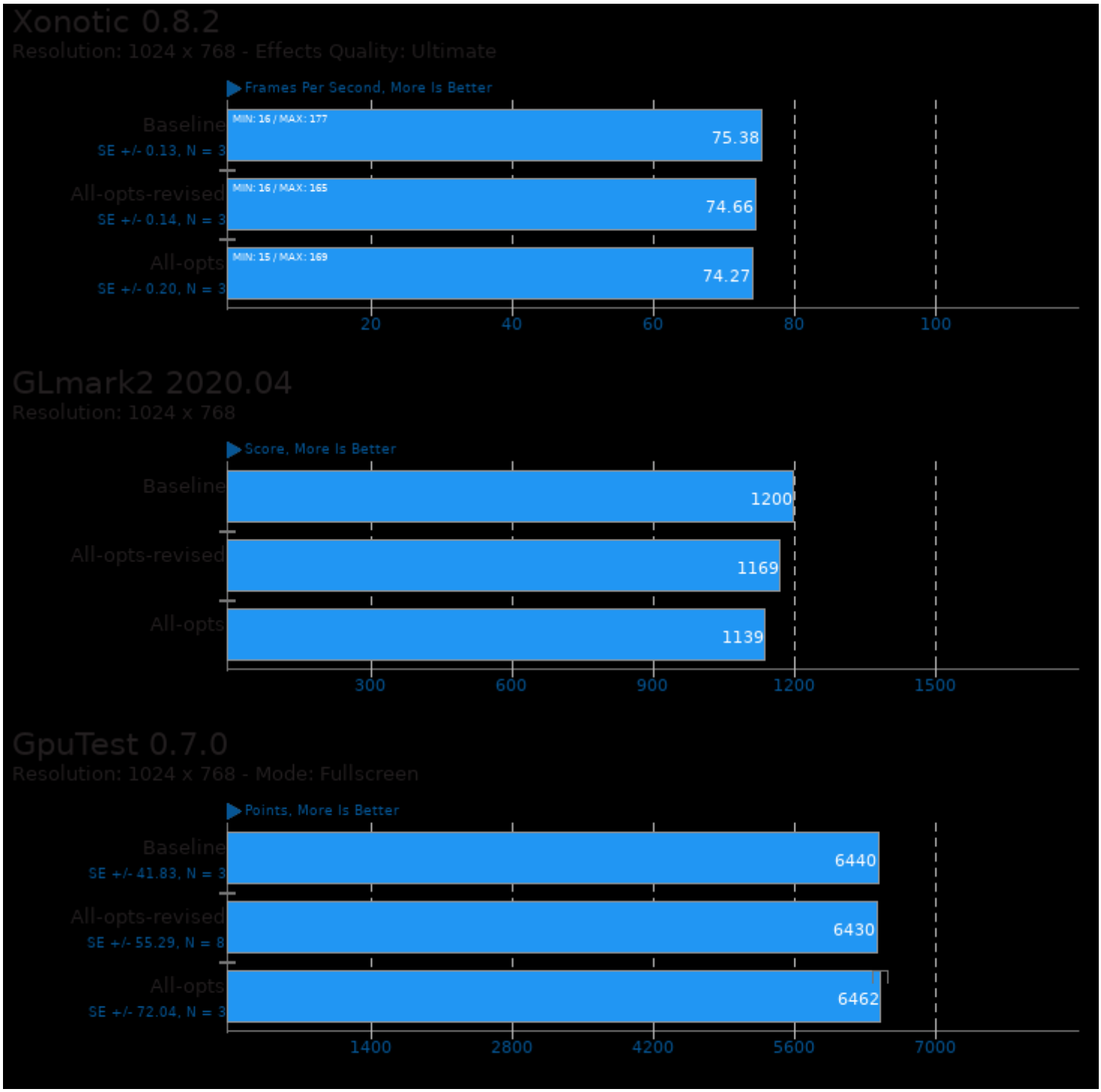
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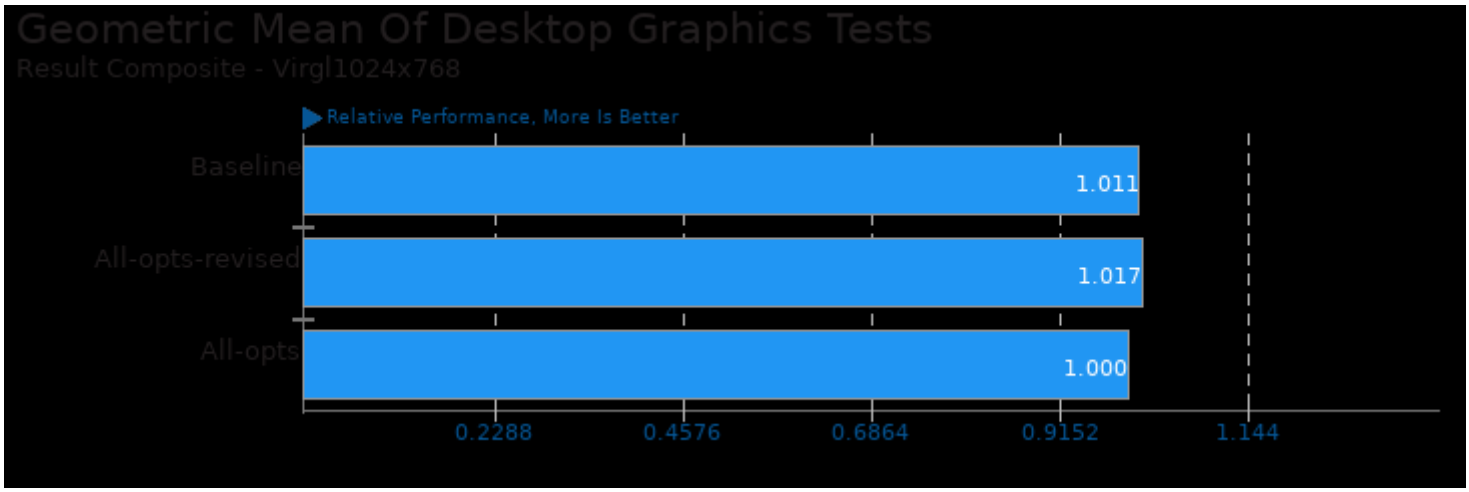
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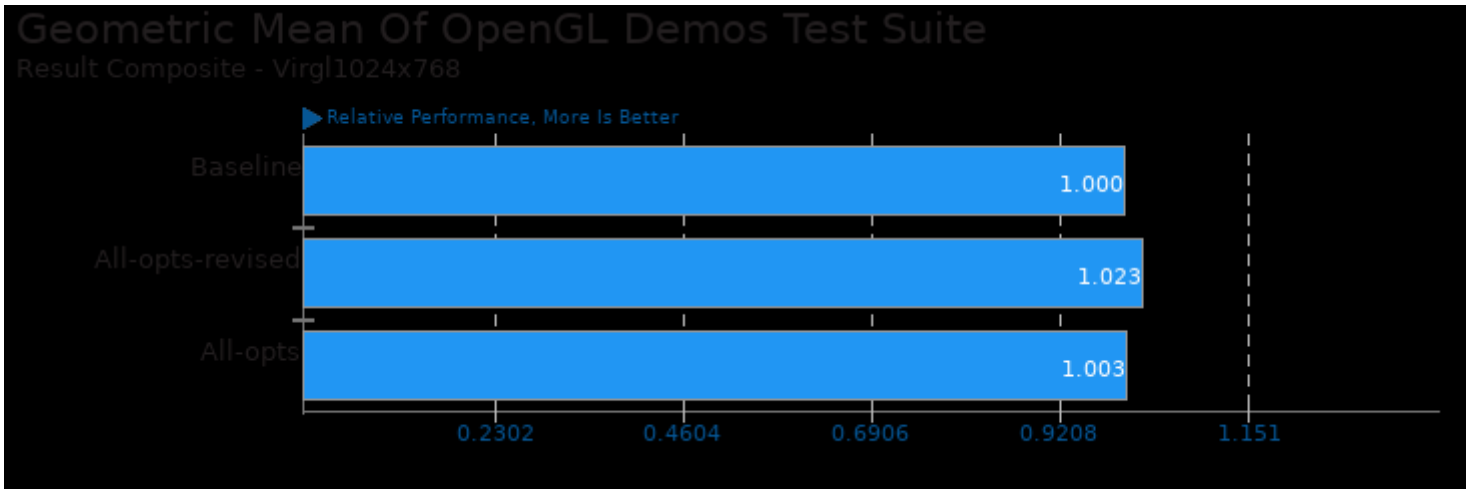
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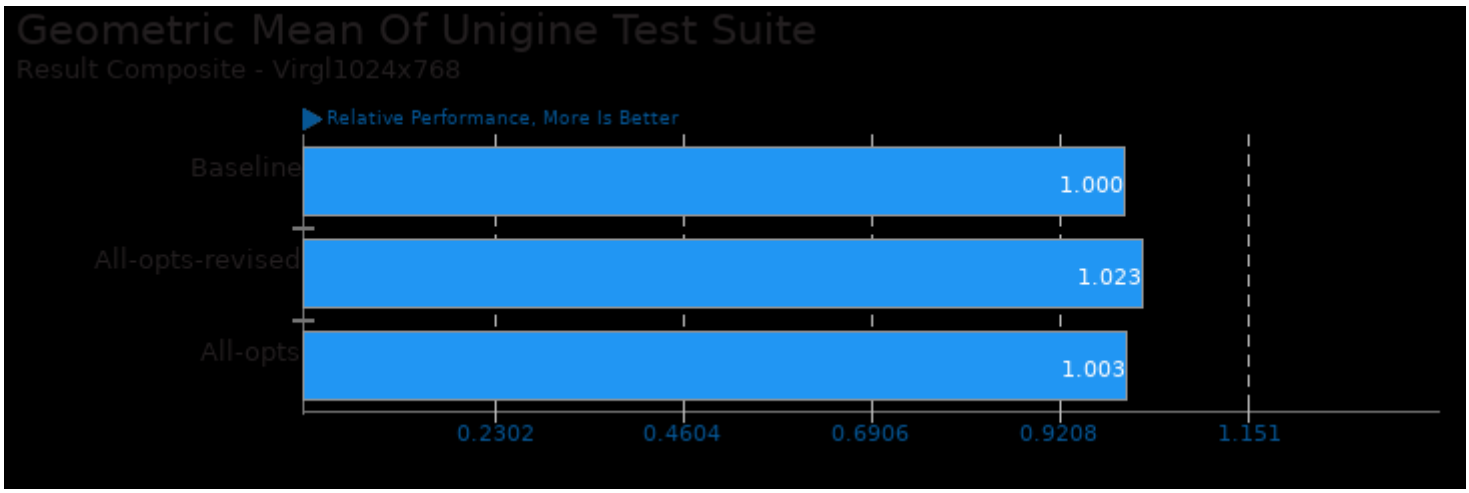
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/xonotic, pts/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 Thursday, 28 March 2024 11:27.