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2 x AMD EPYC 75F3 32-Core testing with a AMD DAYTONA_X (RYM1001D BIOS) and llvmpipe on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 64% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.008x the speed of the slowest (2). 3 was 0.998x the speed of 1 and 2 was 0.995x the speed of 3.

The results with the greatest spread from best to worst included:

AOM AV1 (Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K) at 1.048x
AOM AV1 (Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K) at 1.041x
AOM AV1 (Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K) at 1.039x
AOM AV1 (Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p) at 1.036x
OpenSCAD (Render: Leonardo Phone Case Slim) at 1.019x
OpenSCAD (Render: Retro Car) at 1.018x
AOM AV1 (Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p) at 1.018x
AOM AV1 (Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K) at 1.011x
OpenSCAD (Render: Mini-ITX Case) at 1.009x

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OpenSCAD (Render: Pistol) at 1.008x.

Test Systems:

1

2

3

Processor: 2 x AMD EPYC 75F3 32-Core @ 2.95GHz (64 Cores / 128 Threads), Motherboard: AMD DAYTONA_X (RYM1001D BIOS), Chipset: AMD Starship/Matisse, Memory: 504GB, Disk: 3841GB Micron_9300_MTFDHAL3T8TDP, Graphics: llvmpipe, Monitor: VE228, Network: 2 x Mellanox MT27710

OS: Ubuntu 20.04, Kernel: 5.9.0-050900rc6daily20200921-generic (x86_64) 20200920, Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, OpenGL: 3.3 Mesa 20.0.8 (LLVM 10.0.0 128 bits), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

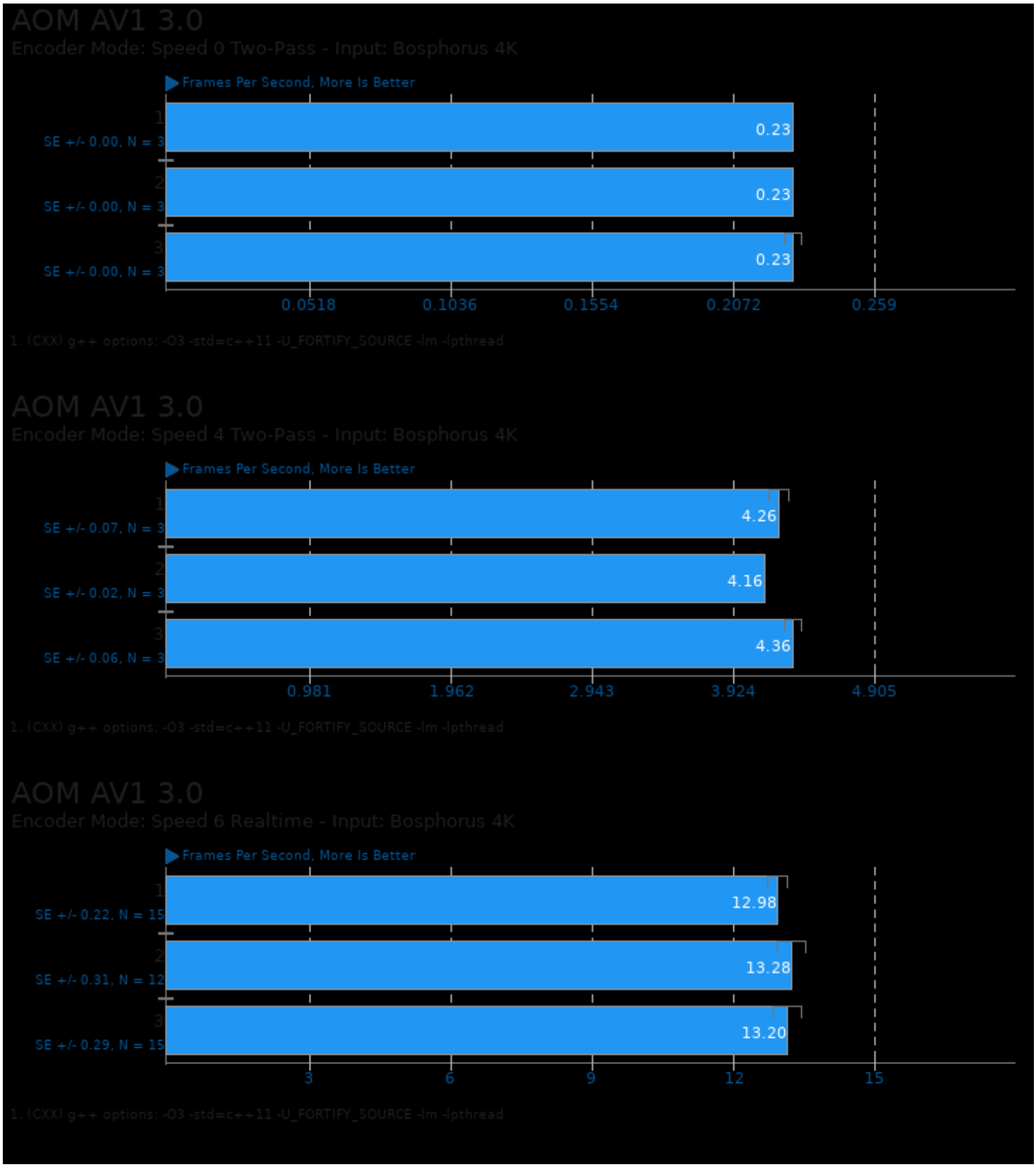
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0xa001119
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 Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	1	2	3
AOM AV1 - Speed 0 Two-Pass - Bosphorus 4K (FPS)	0.23	0.23	0.23
Standard Deviation	0%	0%	2.5%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 4K (FPS)	4.26	**4.16**	**4.36**
Normalized	97.71%	95.41%	100%
Standard Deviation	2.9%	0.6%	2.5%
AOM AV1 - Speed 6 Realtime - Bosphorus 4K (FPS)	**12.98**	**13.28**	13.20
Normalized	97.74%	100%	99.4%
Standard Deviation	6.4%	8%	8.4%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)	**7.76**	7.74	**7.47**
Normalized	100%	99.74%	96.26%
Standard Deviation	1.3%	1%	4%

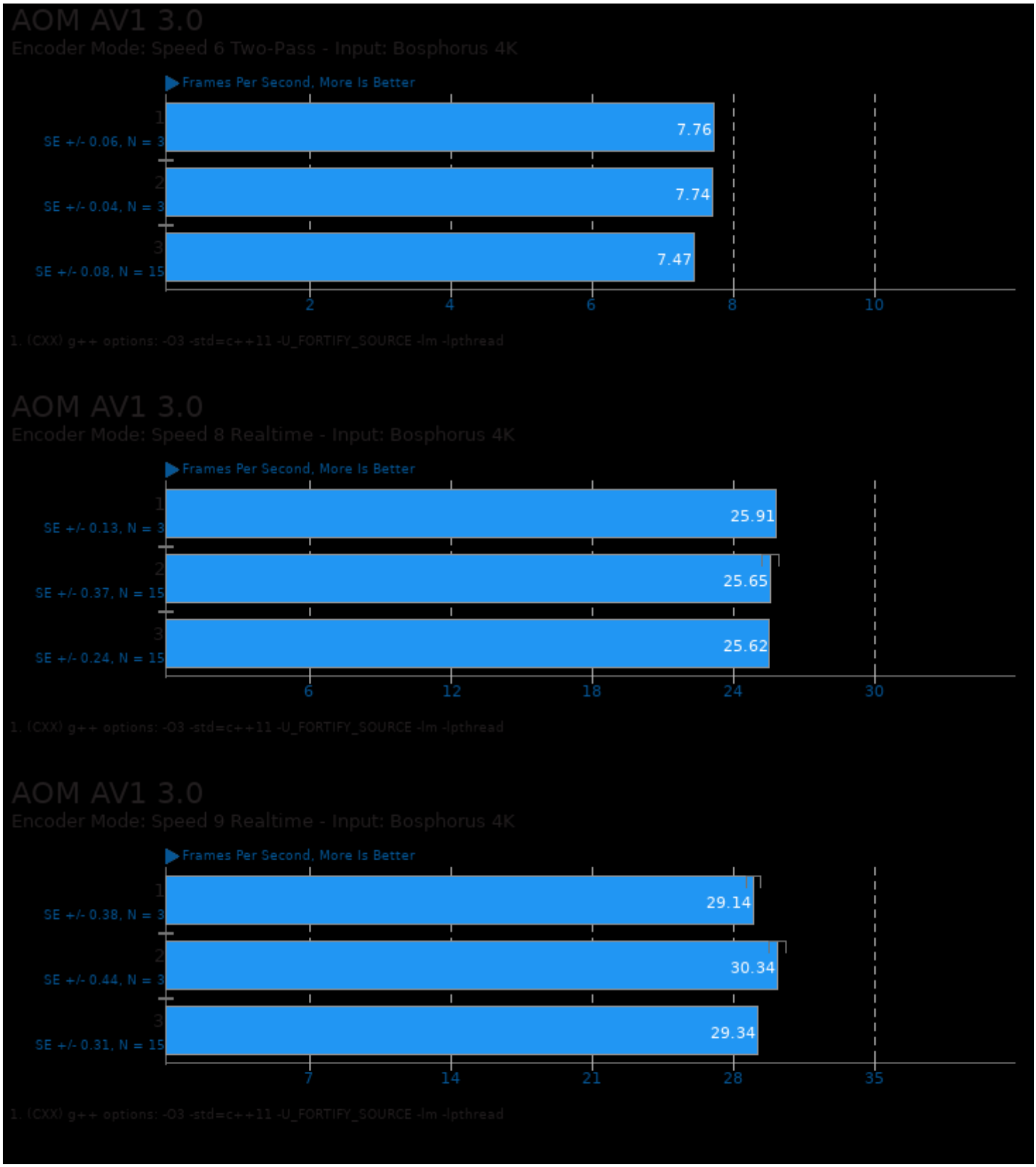
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AOM AV1 - Speed 8 Realtime - Bosphorus 4K (FPS)	**25.91**	25.65	**25.62**
Normalized	100%	99%	98.88%
Standard Deviation	0.9%	5.5%	3.6%
AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)	**29.14**	**30.34**	29.34
Normalized	96.04%	100%	96.7%
Standard Deviation	2.3%	2.5%	4.1%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 1080p (FPS)	**0.58**	**0.57**	**0.58**
Normalized	100%	98.28%	100%
Standard Deviation	1%	0%	1%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 1080p (FPS)	7.35	**7.17**	**7.43**
Normalized	98.92%	96.5%	100%
Standard Deviation	0.9%	3.5%	0.1%
AOM AV1 - Speed 6 Realtime - Bosphorus 1080p (FPS)	22.65	**23.04**	**22.13**
Normalized	98.31%	100%	96.05%
Standard Deviation	4.5%	1.3%	6.5%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 1080p (FPS)	20.27	**19.83**	**20.69**
Normalized	97.97%	95.84%	100%
Standard Deviation	2.9%	7.2%	2.3%
AOM AV1 - Speed 8 Realtime - Bosphorus 1080p (FPS)	**67.44**	**65.06**	67.18
Normalized	100%	96.47%	99.61%
Standard Deviation	7.3%	8.4%	7.5%
AOM AV1 - Speed 9 Realtime - Bosphorus 1080p (FPS)	**83.28**	**81.36**	83.21
Normalized	100%	97.69%	99.92%
Standard Deviation	5.7%	7.6%	5.3%
OpenSCAD - Pistol (sec)	**98.437**	98.908	**99.232**
Normalized	100%	99.52%	99.2%
Standard Deviation	0.4%	1%	0.5%
OpenSCAD - Retro Car (sec)	**17.506**	17.692	**17.826**
Normalized	100%	98.95%	98.2%
Standard Deviation	0.3%	0.1%	0.7%
OpenSCAD - Mini-ITX Case (sec)	**40.697**	**41.054**	40.824
Normalized	100%	99.13%	99.69%
Standard Deviation	0.5%	0.4%	0.2%
OpenSCAD - P.M.S (sec)	**90.496**	90.924	**91.141**
Normalized	100%	99.53%	99.29%
Standard Deviation	0.7%	0.2%	0.7%
OpenSCAD - L.P.C.S (sec)	**16.739**	**17.053**	16.765
Normalized	100%	98.16%	99.84%
Standard Deviation	0.1%	2.8%	0.4%

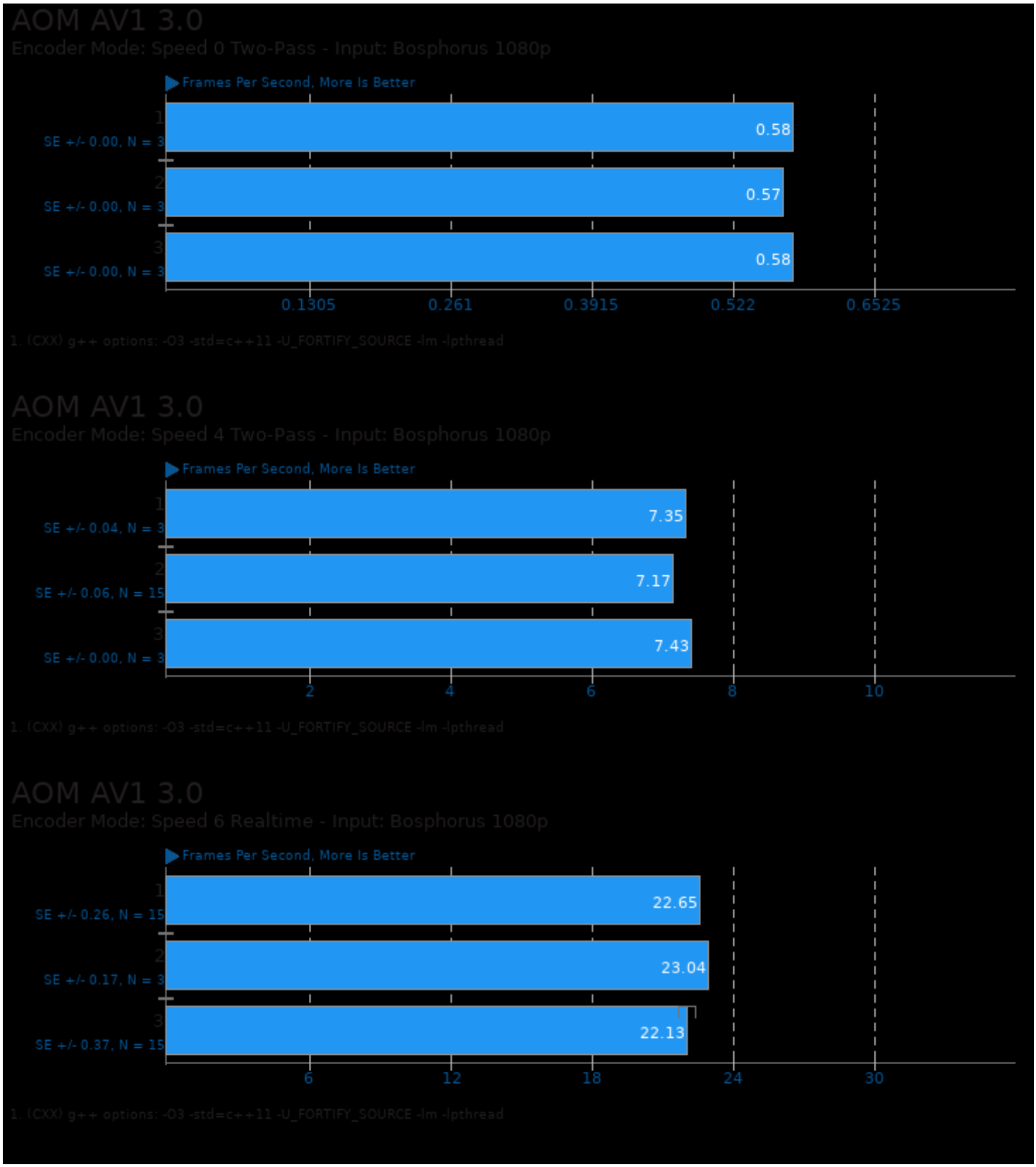
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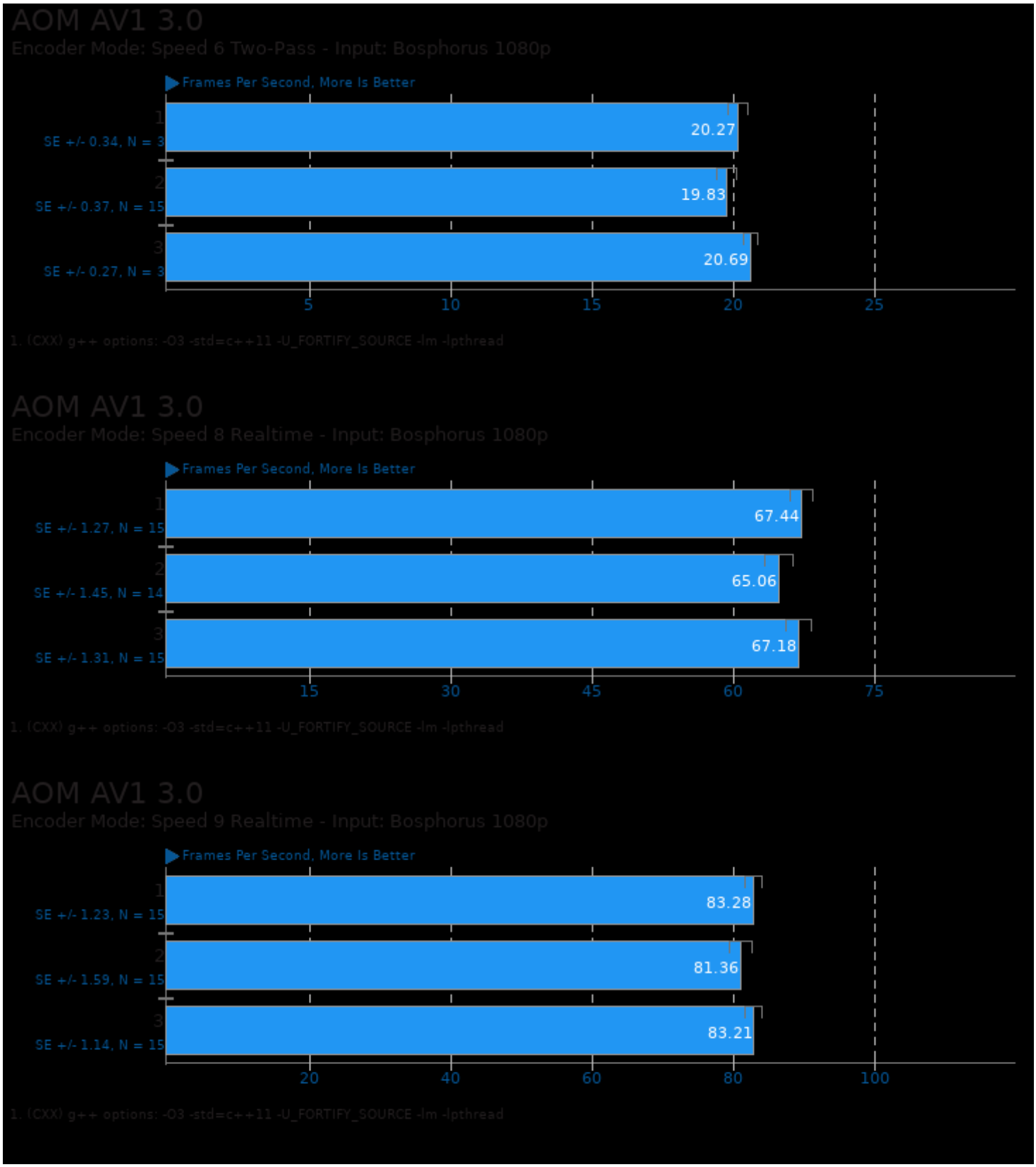
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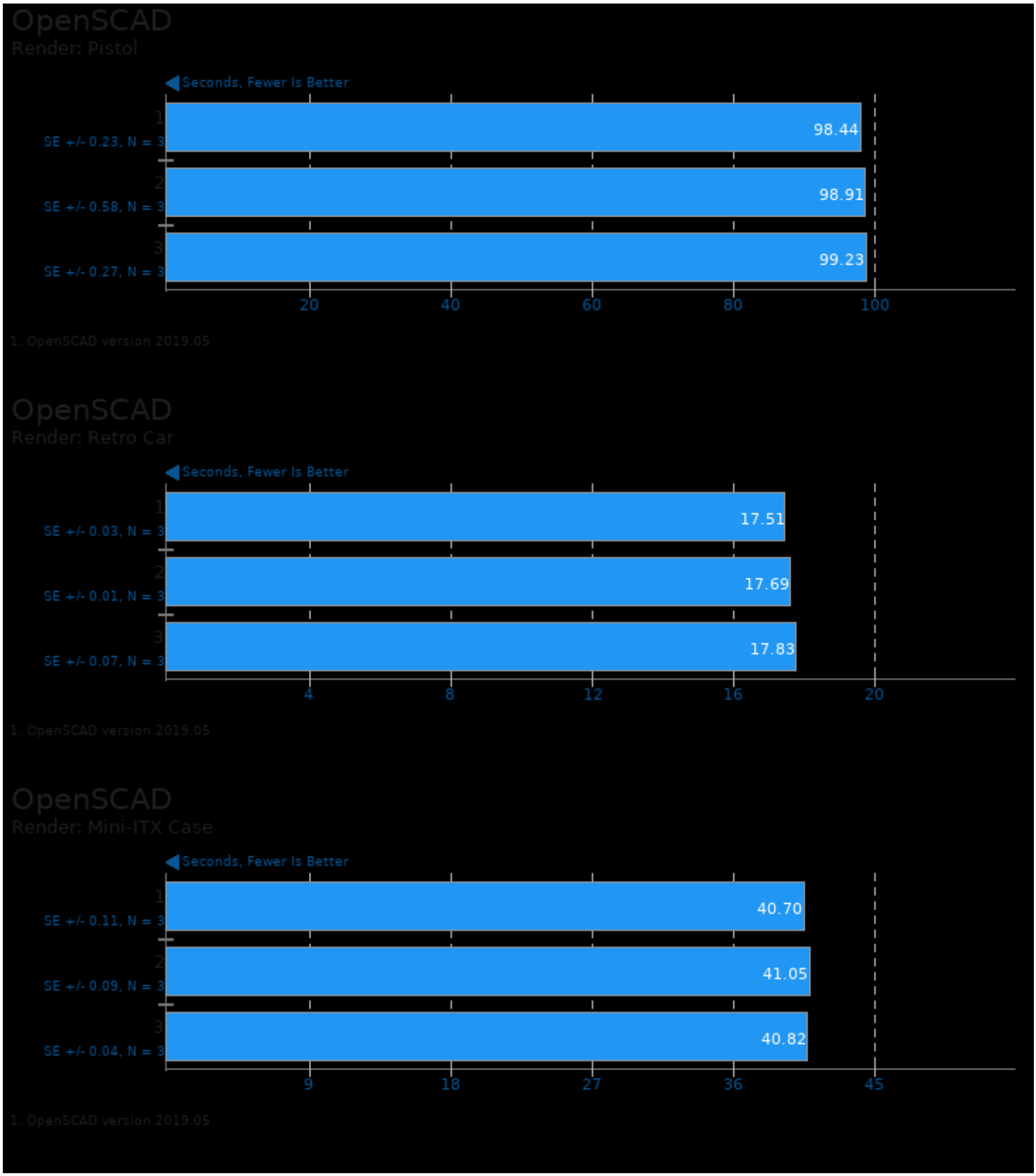
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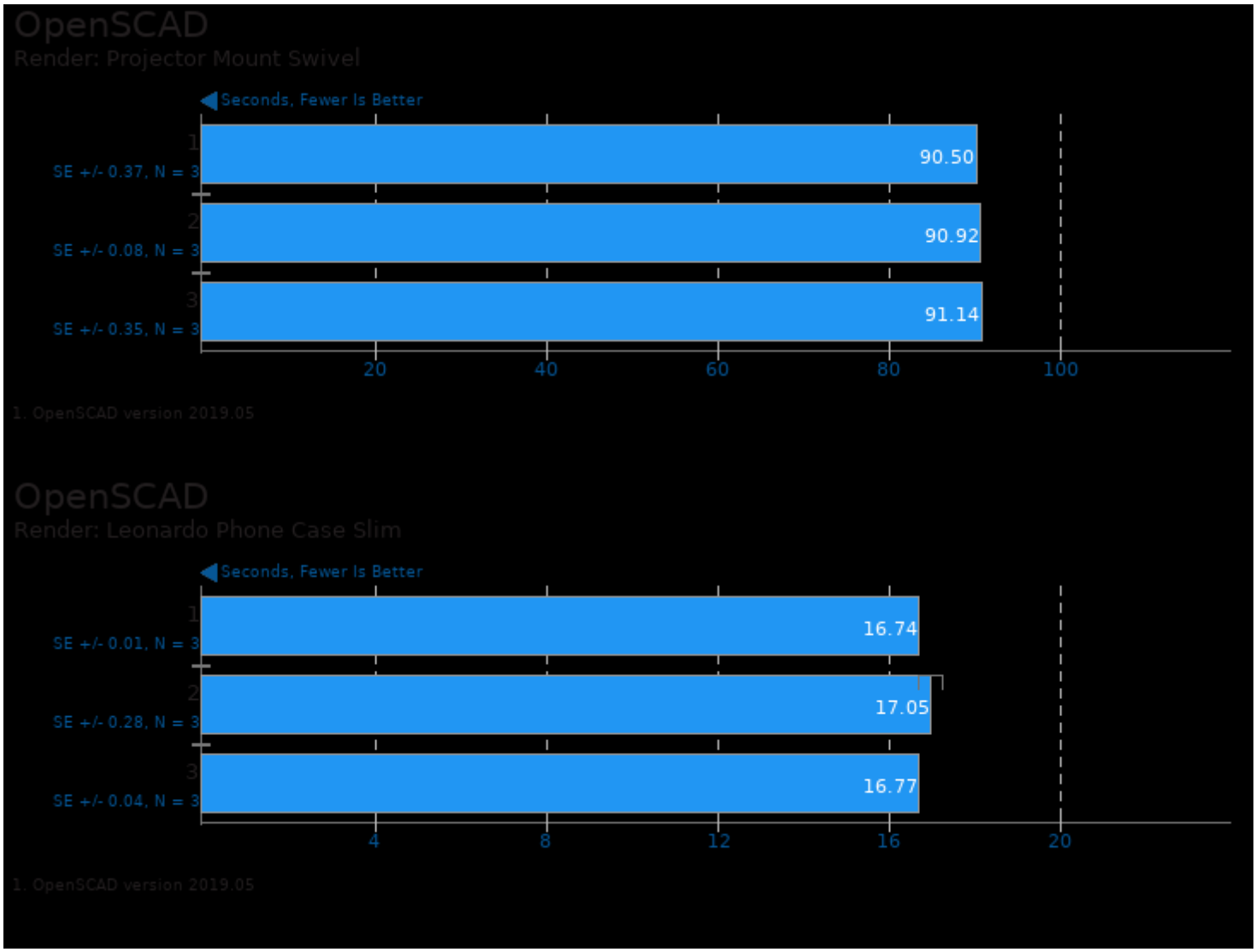
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These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/aom-av1 and system/openscad

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 09:29.