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Intel Core i5-12600K testing with a ASUS PRIME Z690-P WIFI D4 (0605 BIOS) and ASUS Intel ADL-S GT1 15GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

A had the most wins, coming in first place for 42% of the tests.

Based on the geometric mean of all complete results, the fastest (C) was 1.006x the speed of the slowest (B). A was 0.996x the speed of C and B was 0.997x the speed of A.

Test Systems:

A

B

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C

Processor: Intel Core i5-12600K @ 6.30GHz (10 Cores / 16 Threads), Motherboard: ASUS PRIME Z690-P WIFI D4 (0605 BIOS), Chipset: Intel Device 7aa7, Memory: 16GB, Disk: 1000GB Western Digital WDS100T1X0E-00AFY0, Graphics: ASUS Intel ADL-S GT1 15GB (1450MHz), Audio: Realtek ALC897, Monitor: ASUS MG28U, Network: Realtek RTL8125 2.5GbE + Intel Device 7af0

OS: Ubuntu 22.04, Kernel: 5.19.0-051900rc2daily20220617-generic (x86_64), Desktop: GNOME Shell 42.1, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.0.1, OpenCL: OpenCL 3.0, Vulkan: 1.2.204, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

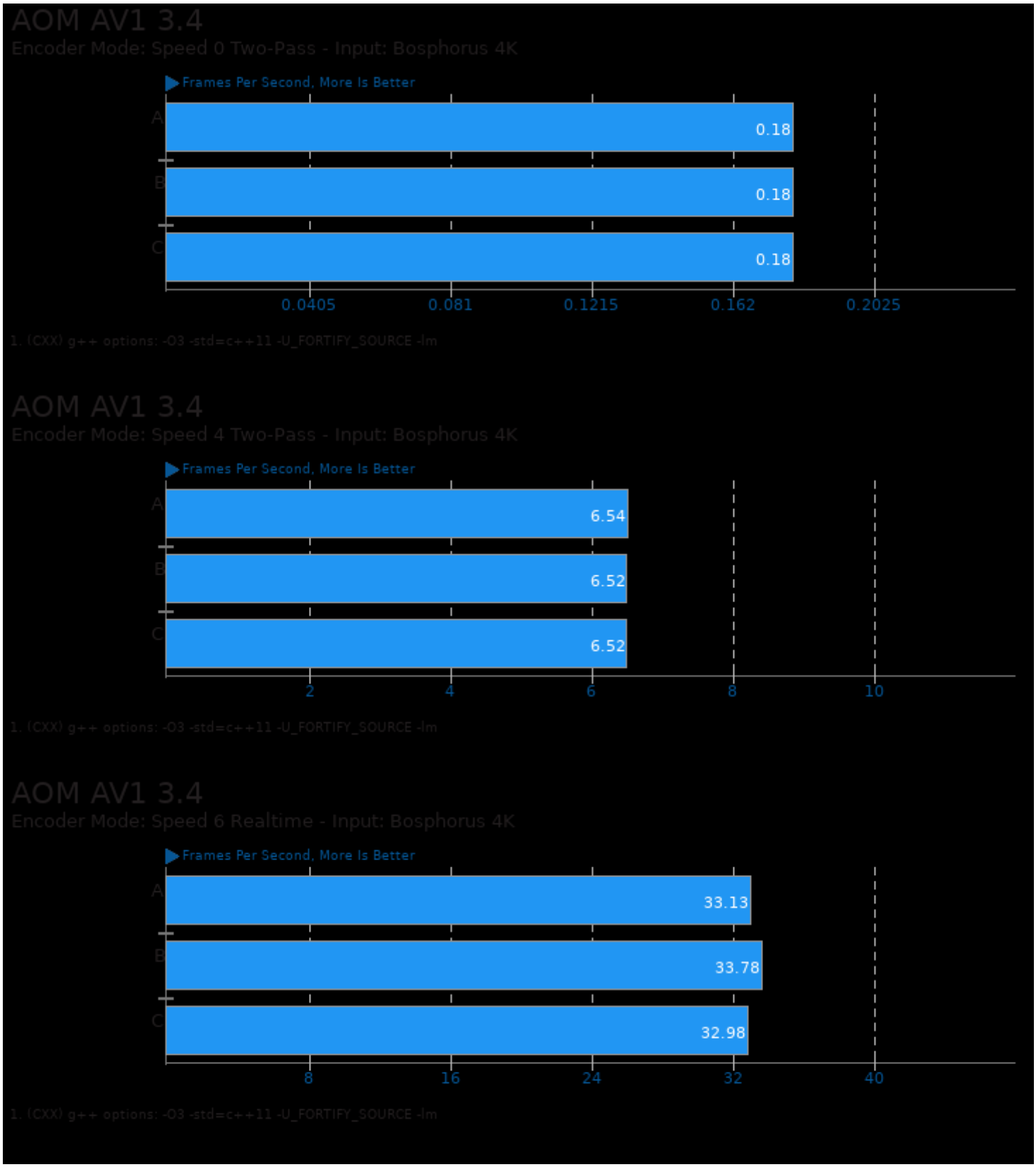
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-gcn/usr --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-build-config=bootstrap-lto-lean --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: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0x12 - Thermald 2.4.9
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + 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

	A	B	C
AOM AV1 - Speed 0 Two-Pass - Bosphorus 4K (FPS)	0.18	0.18	0.18
AOM AV1 - Speed 4 Two-Pass - Bosphorus 4K (FPS)	**6.54**	**6.52**	**6.52**
Normalized	100%	99.69%	99.69%
AOM AV1 - Speed 6 Realtime - Bosphorus 4K (FPS)	33.13	**33.78**	**32.98**
Normalized	98.08%	100%	97.63%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)	**11.88**	**11.86**	**11.86**
Normalized	100%	99.83%	99.83%
AOM AV1 - Speed 8 Realtime - Bosphorus 4K (FPS)	**49.17**	**50.98**	50.8
Normalized	96.45%	100%	99.65%
AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)	**80.18**	80.4	**81**
Normalized	98.99%	99.26%	100%
AOM AV1 - Speed 10 Realtime - Bosphorus 4K (FPS)	80.23	**80.34**	**78.9**
Normalized	99.86%	100%	98.21%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 1080p (FPS)	0.55	0.55	0.55
AOM AV1 - Speed 4 Two-Pass - Bosphorus 1080p (FPS)	**12.67**	**12.52**	12.6
Normalized	100%	98.82%	99.45%

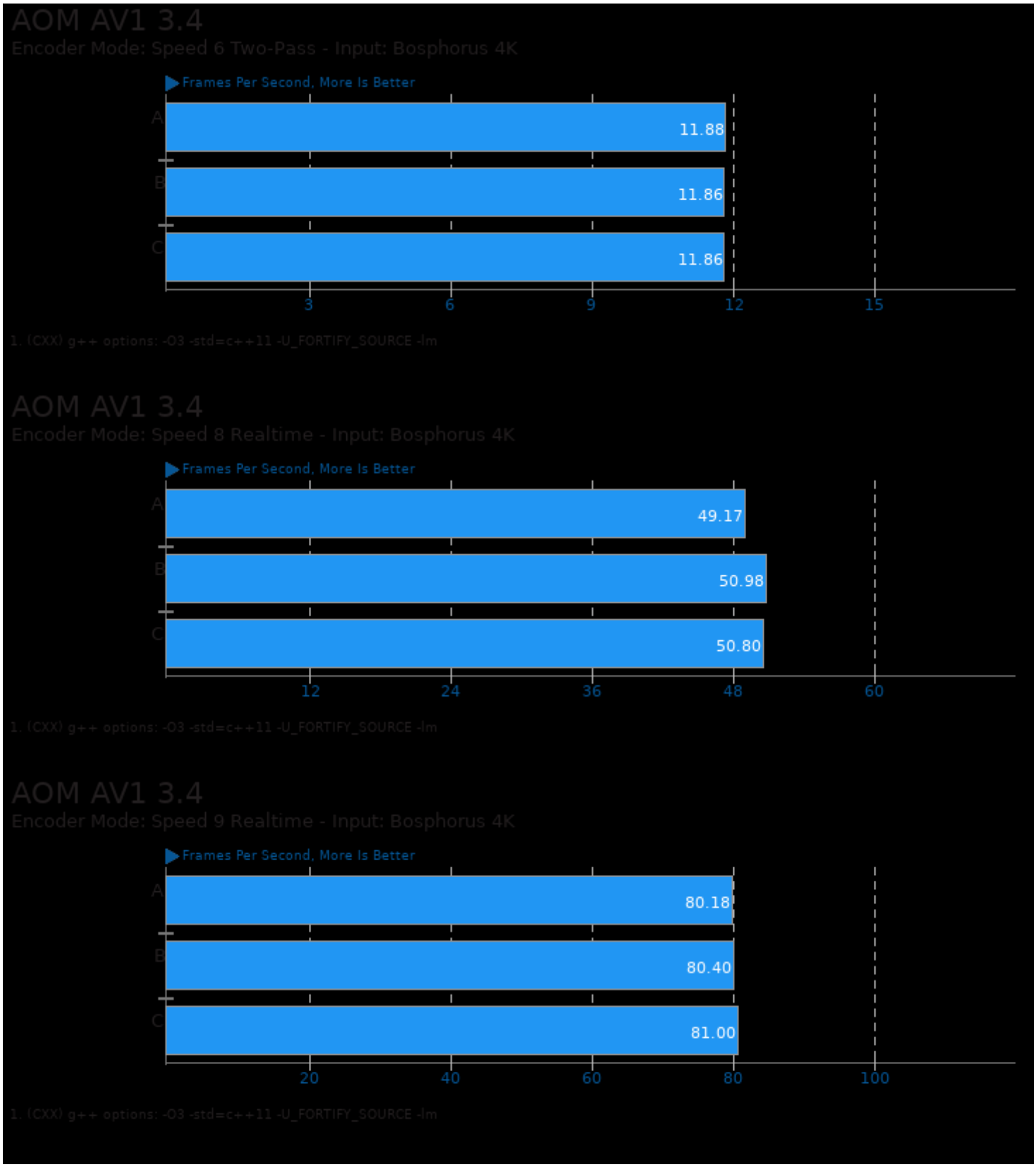
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AOM AV1 - Speed 6 Realtime - Bosphorus 1080p (FPS)	40.21	**39.23**	**41.35**
Normalized	97.24%	94.87%	100%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 1080p (FPS)	**32.3**	32.4	**32.86**
Normalized	98.3%	98.6%	100%
AOM AV1 - Speed 8 Realtime - Bosphorus 1080p (FPS)	148.66	**145.77**	**155.21**
Normalized	95.78%	93.92%	100%
AOM AV1 - Speed 9 Realtime - Bosphorus 1080p (FPS)	186.54	**189.15**	**184.26**
Normalized	98.62%	100%	97.41%
AOM AV1 - Speed 10 Realtime - Bosphorus 1080p (FPS)	**208.52**	**198.01**	201.17
Normalized	100%	94.96%	96.48%

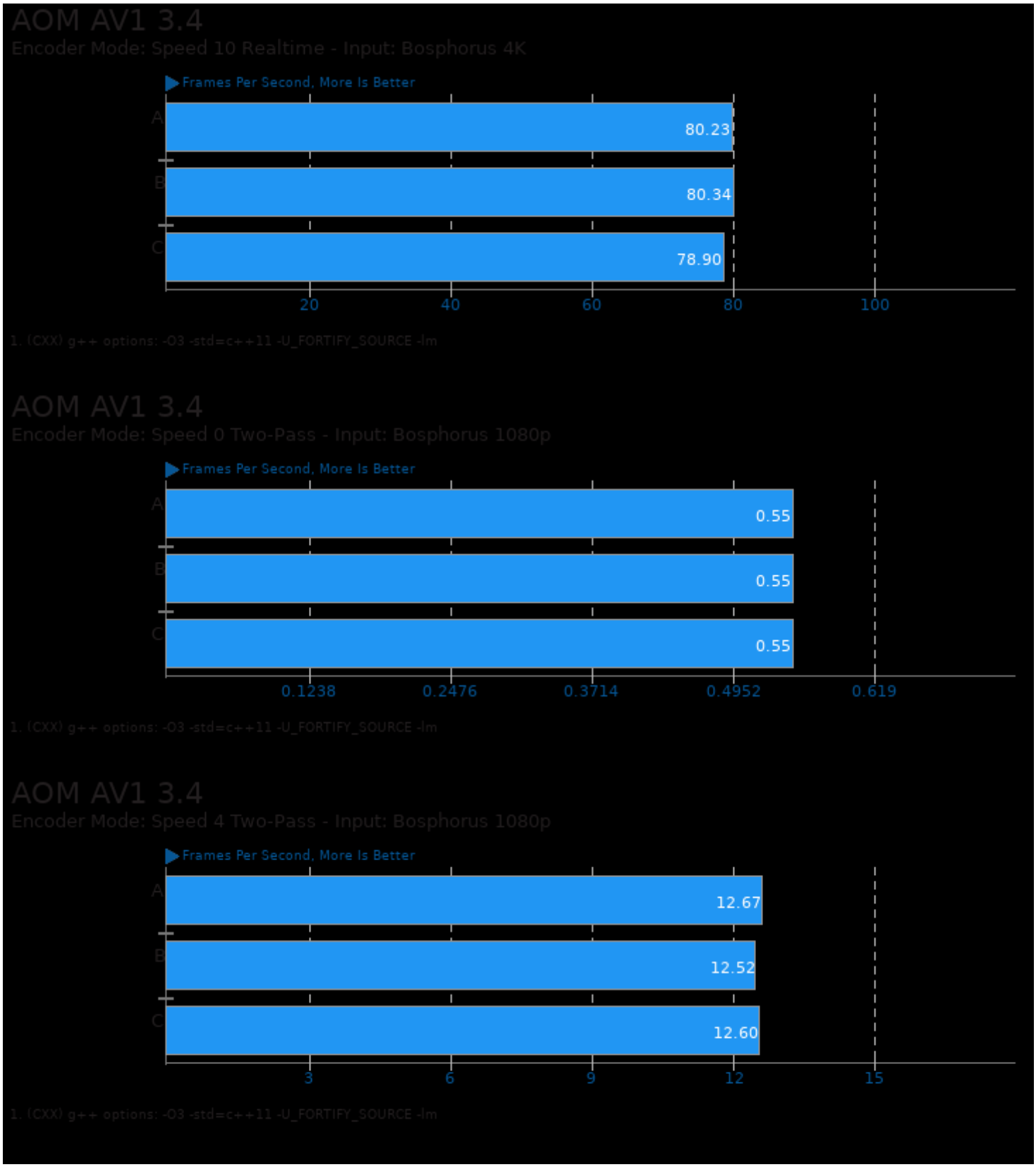
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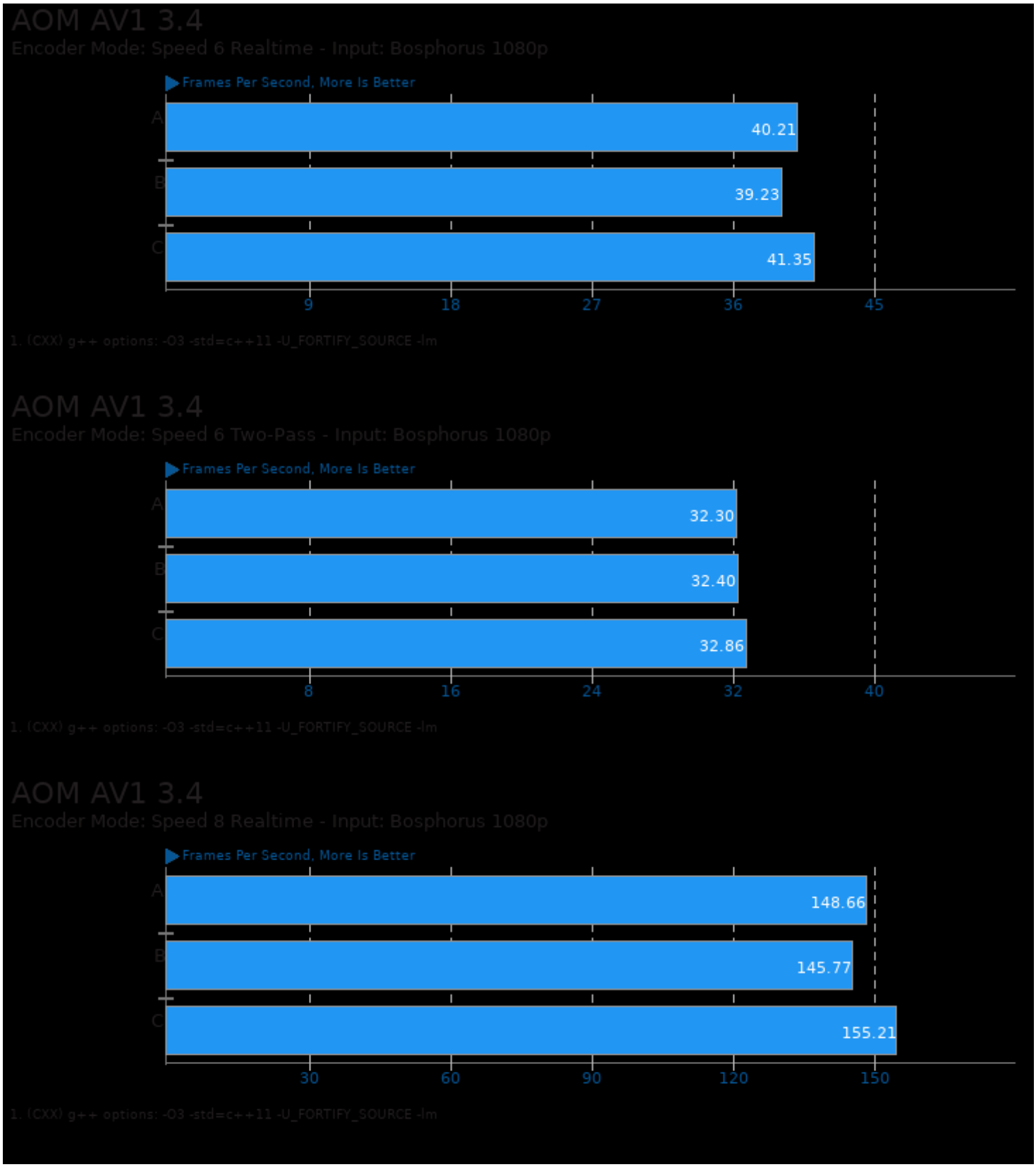
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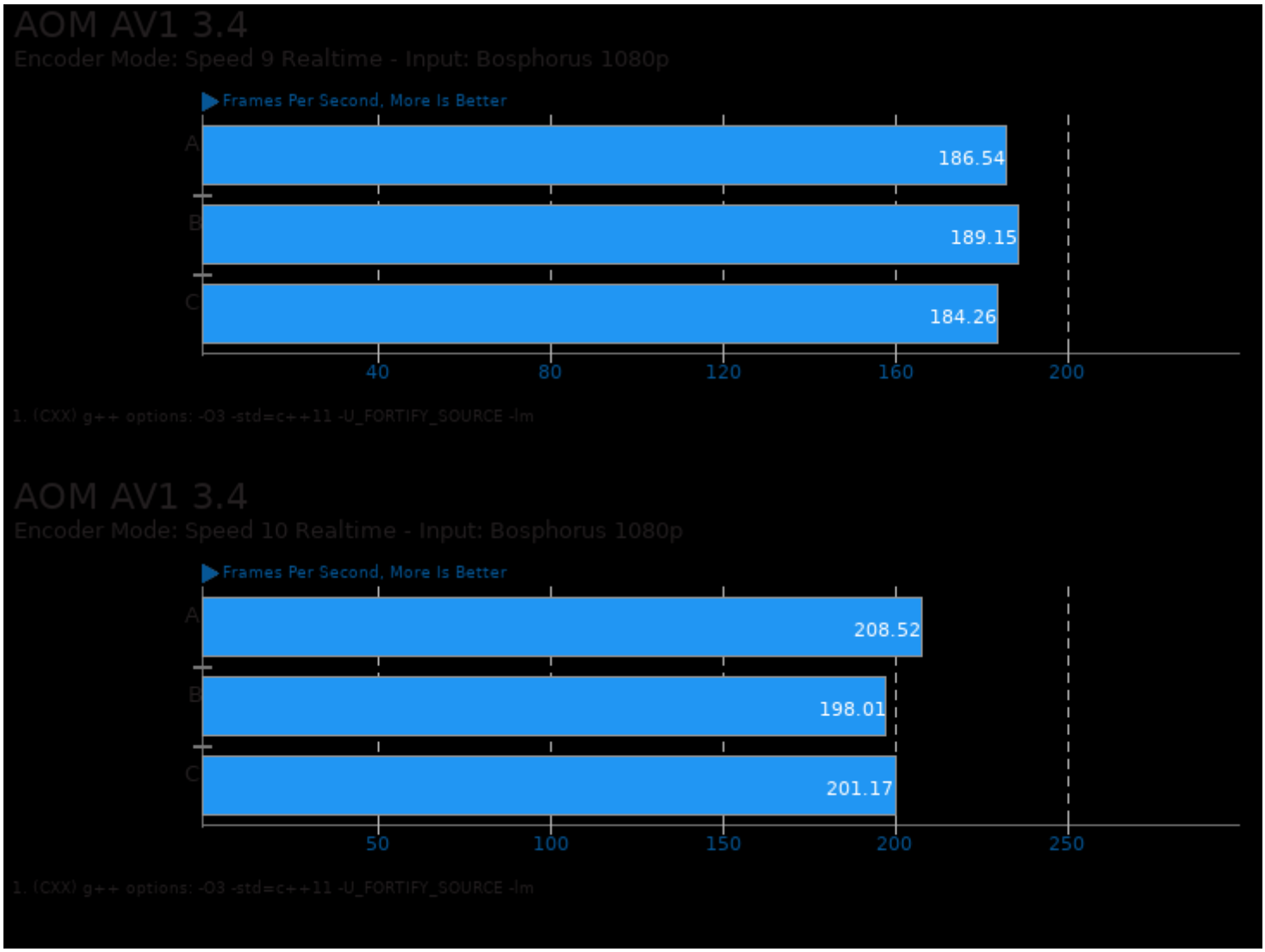
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