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svt-av1 celeron

Intel Celeron G6900 testing with a ASRock B660M-HDV (3.02 BIOS) and Intel ADL-S GT0.5 3GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

C had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (C) was 1.006x the speed of the slowest (A). B was 1x the speed of C and A was 0.995x the speed of B.

Test Systems:

A

B

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C

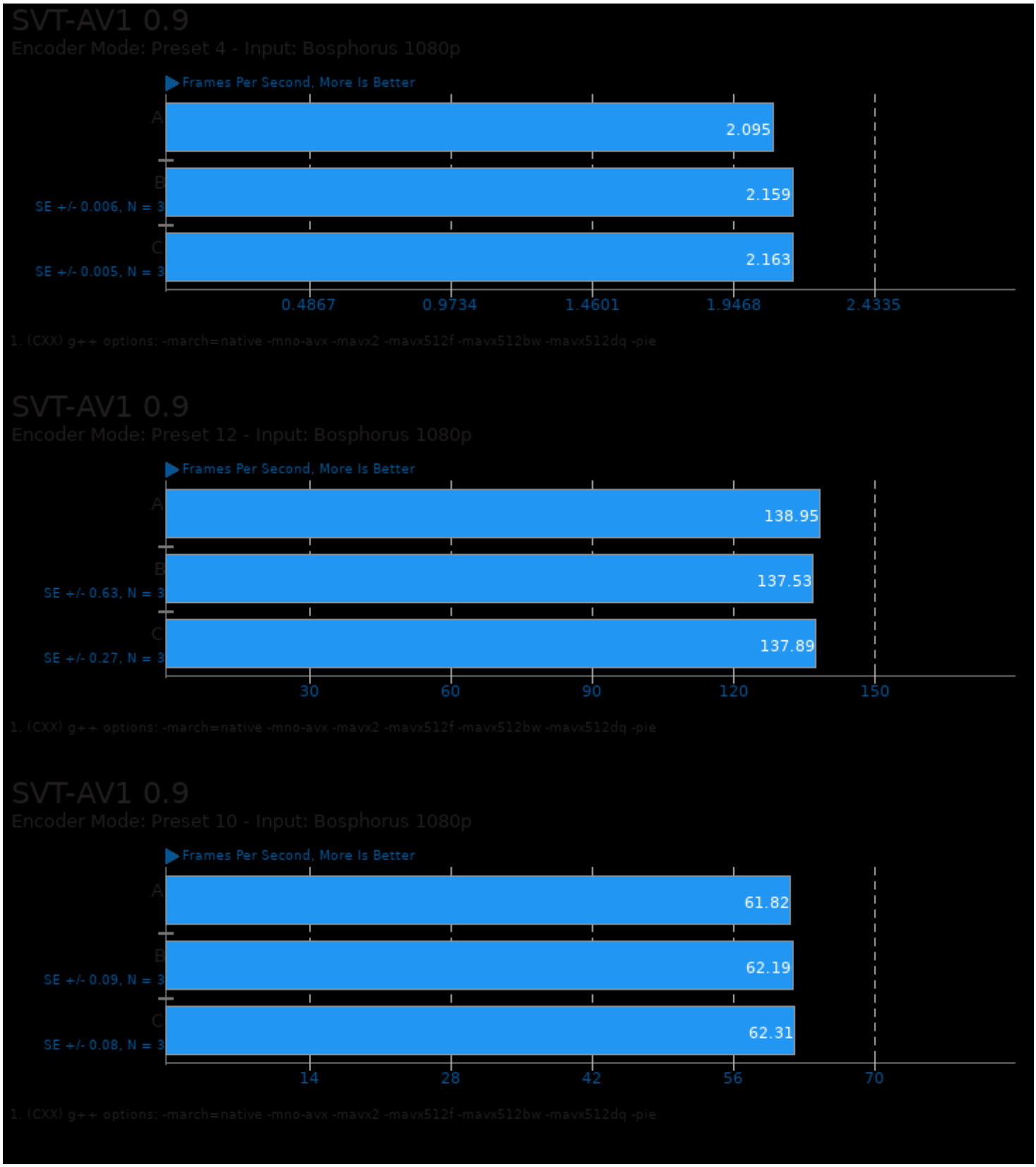
Processor: Intel Celeron G6900 @ 4.40GHz (2 Cores), Motherboard: ASRock B660M-HDV (3.02 BIOS), Chipset: Intel Device 7aa7, Memory: 16GB, Disk: 512GB Sabrent, Graphics: Intel ADL-S GT0.5 3GB (1300MHz), Audio: Realtek ALC897, Monitor: DELL S2409W, Network: Intel

OS: Ubuntu 22.04, Kernel: 5.16.0-051600-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13 + Wayland, OpenGL: 4.6 Mesa 21.2.2, Vulkan: 1.2.182, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

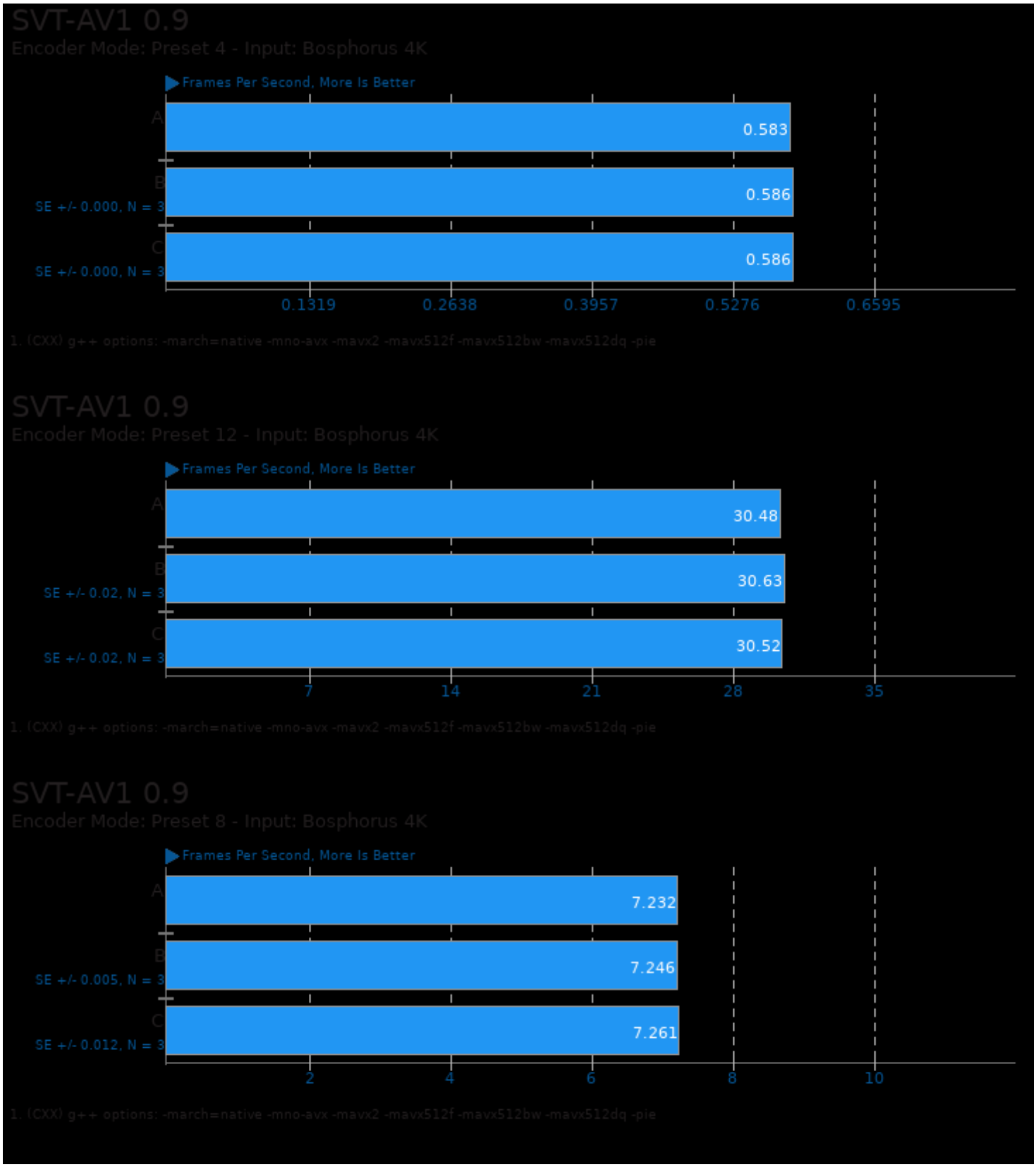
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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-iOLsLC/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-iOLsLC/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: 0x18 - Thermald 2.4.7
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: 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
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	**2.095**	2.159	**2.163**
Normalized	96.86%	99.82%	100%
Standard Deviation		0.5%	0.4%
SVT-AV1 - Preset 12 - Bosphorus 1080p	**138.95**	**137.533**	137.888
Normalized	100%	98.98%	99.24%
Standard Deviation		0.8%	0.3%
SVT-AV1 - Preset 10 - Bosphorus 1080p	**61.816**	62.186	**62.313**
Normalized	99.2%	99.8%	100%
Standard Deviation		0.3%	0.2%
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	**0.583**	**0.586**	**0.586**
Normalized	99.49%	100%	100%
Standard Deviation		0.1%	0%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	**30.479**	**30.629**	30.515
Normalized	99.51%	100%	99.63%
Standard Deviation		0.1%	0.1%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	**7.232**	7.246	**7.261**
Normalized	99.6%	99.79%	100%
Standard Deviation		0.1%	0.3%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	**27.174**	**27.266**	27.221
Normalized	99.66%	100%	99.83%
Standard Deviation		0.3%	0.6%
SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)	**15.365**	**15.365**	**15.368**
Normalized	99.98%	99.98%	100%
Standard Deviation		0.2%	0%

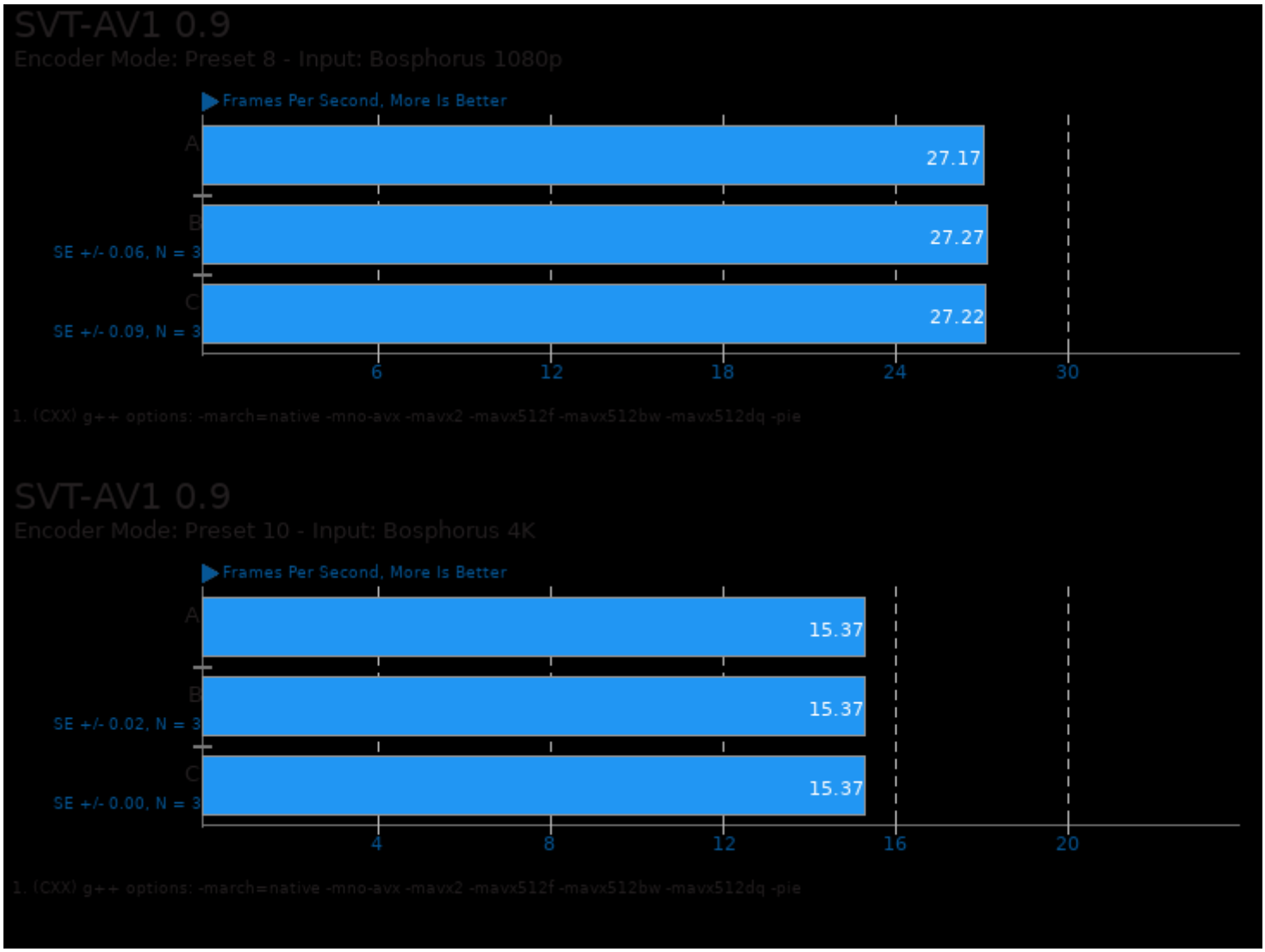
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