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6850u svt-av1 1.2

AMD Ryzen 7 PRO 6850U testing with a LENOVO 21CM0001US (R22ET46W 1.16 BIOS) and AMD Rembrandt 1GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

A had the most wins, coming in first place for 62% of the tests.

Based on the geometric mean of all complete results, the fastest (A) was 1.021x the speed of the slowest (C). D was 0.998x the speed of A, B was 0.991x the speed of D, C was 0.991x the speed of B.

Test Systems:

A

B

6850u svt-av1 1.2

C

D

Processor: AMD Ryzen 7 PRO 6850U @ 4.77GHz (8 Cores / 16 Threads), Motherboard: LENOVO 21CM0001US (R22ET46W 1.16 BIOS), Chipset: AMD Device 14b5, Memory: 16GB, Disk: 512GB Micron MTFDKBA512TFK, Graphics: AMD Rembrandt 1GB, Audio: AMD Rembrandt Radeon HD Audio, Network: Qualcomm Atheros QCNFA765

OS: Ubuntu 22.04, Kernel: 5.15.0-41-generic (x86_64), Desktop: GNOME Shell 42.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.2.0-devel (git-ba461f8 2022-07-26 jammy-oibaf-ppa) (LLVM 14.0.6 DRM 3.42), Vulkan: 1.3.219, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1200

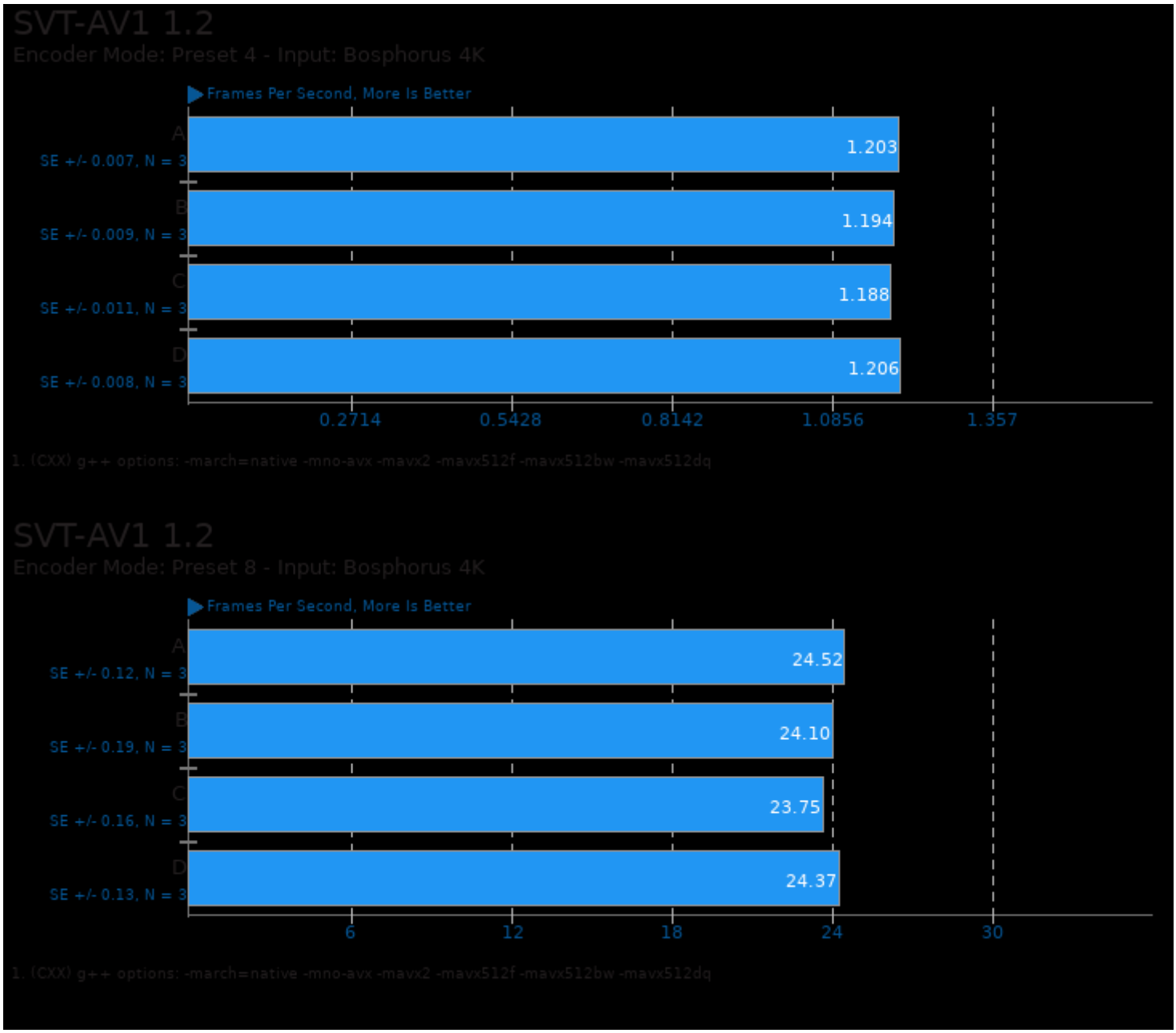
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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: amd-pstate schedutil (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa404102 - ACPI Profile: balanced
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 and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C	D
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	1.203	1.194	**1.188**	**1.206**
Normalized	99.75%	99%	98.51%	100%
Standard Deviation	0.9%	1.4%	1.6%	1.1%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	**24.524**	24.101	**23.753**	24.373
Normalized	100%	98.28%	96.86%	99.38%
Standard Deviation	0.8%	1.4%	1.1%	0.9%
SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)	**51.045**	50.085	**49.425**	50.877
Normalized	100%	98.12%	96.83%	99.67%
Standard Deviation	0.4%	0.5%	0.5%	0.5%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	**76.104**	75.156	**73.858**	75.341
Normalized	100%	98.75%	97.05%	99%
Standard Deviation	0.7%	0.8%	1.3%	0.7%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	**3.992**	3.982	**3.977**	3.990
Normalized	100%	99.75%	99.62%	99.95%
Standard Deviation	0.7%	0.5%	0.6%	0.3%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	70.646	70.249	**69.081**	**71.046**
Normalized	99.44%	98.88%	97.23%	100%
Standard Deviation	1%	1.7%	0.4%	0.7%

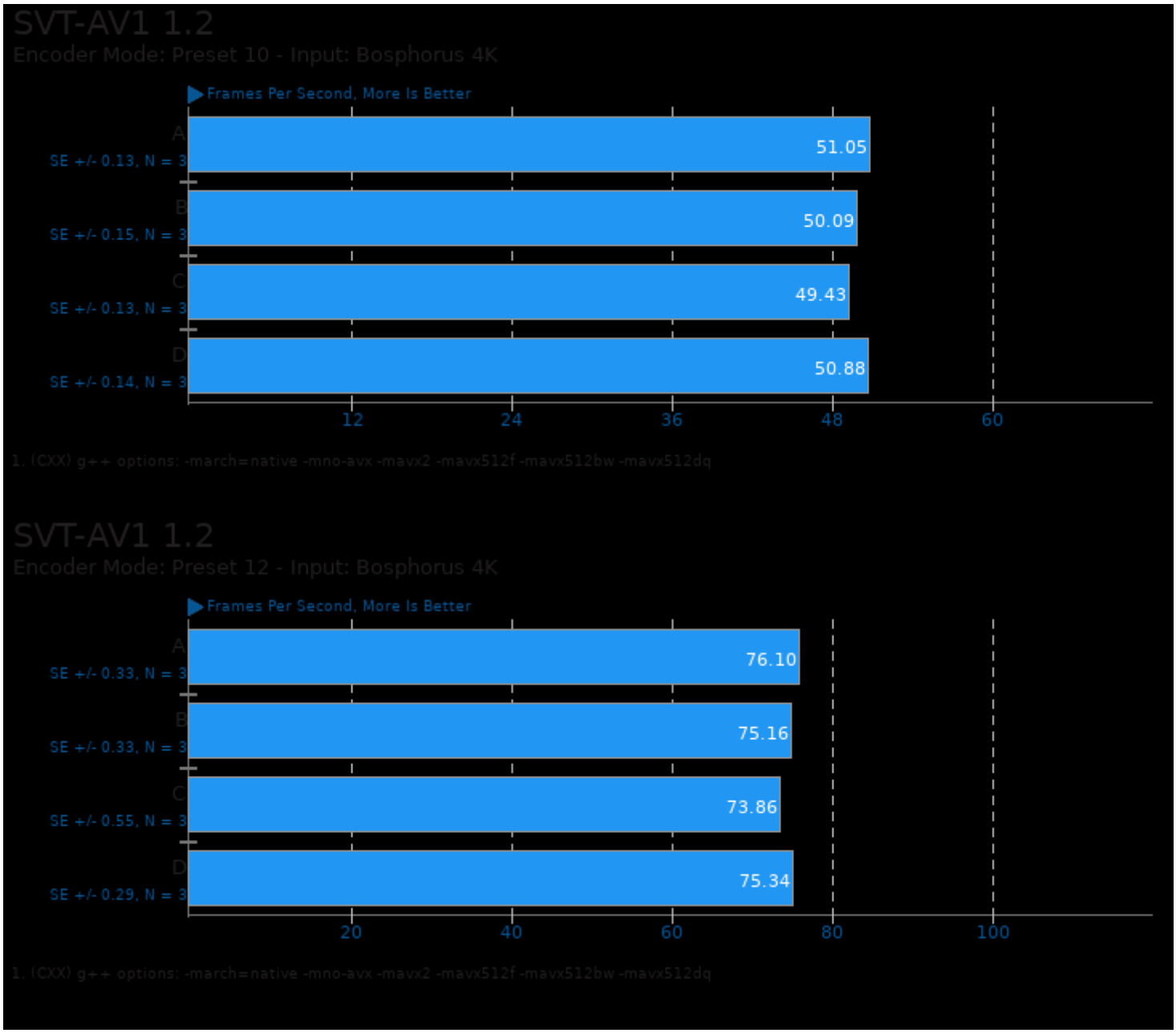
6850u svt-av1 1.2

SVT-AV1 - Preset 10 - Bosphorus 1080p (FPS)	158.118	157.779	**156.507**	**158.714**
Normalized	99.62%	99.41%	98.61%	100%
Standard Deviation	0.4%	0.9%	0.4%	0.3%
SVT-AV1 - Preset 12 - Bosphorus 1080p (FPS)	**288.901**	**281.774**	283.415	286.055
Normalized	100%	97.53%	98.1%	99.01%
Standard Deviation	0.3%	0.4%	0.9%	0.2%

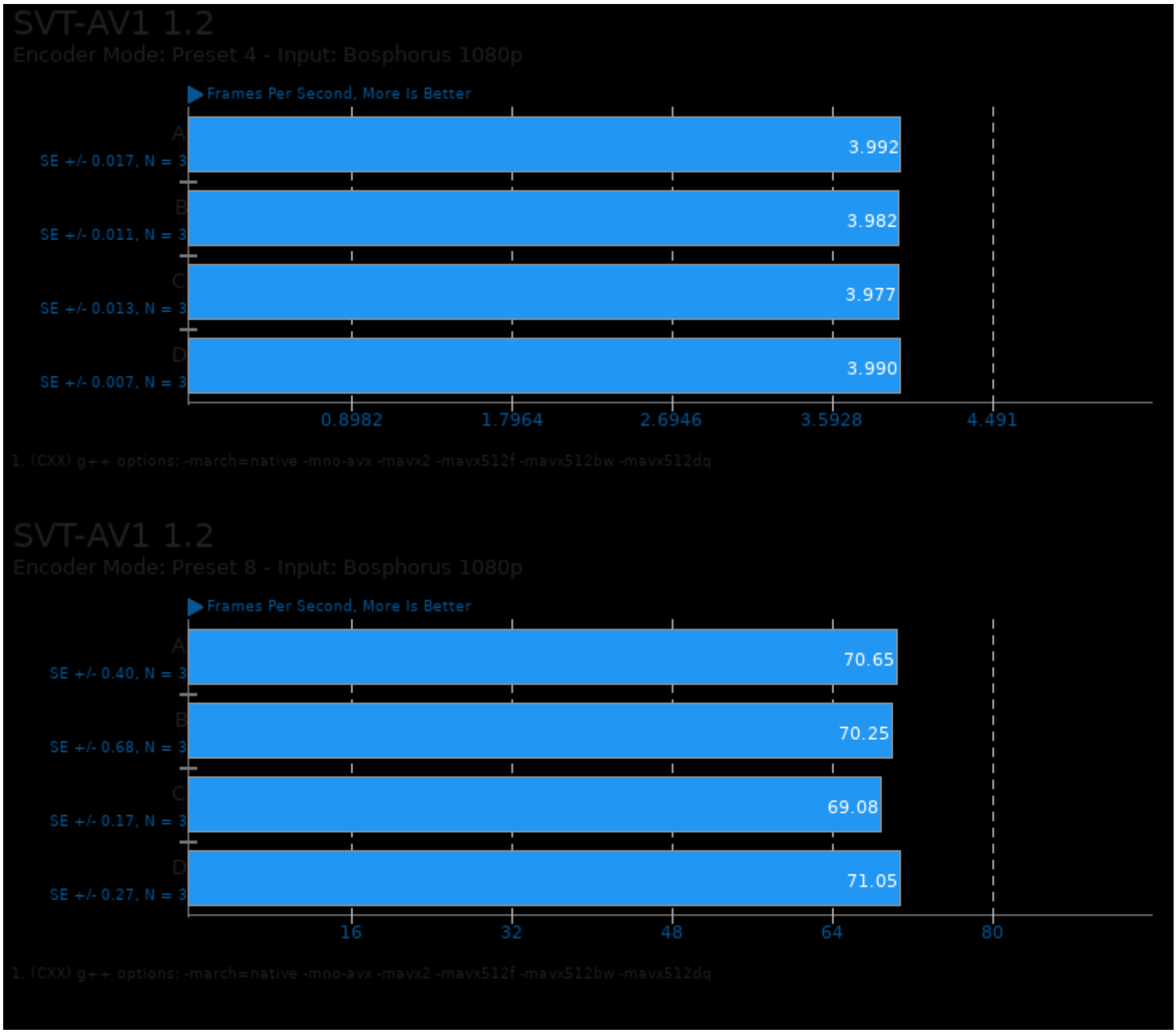
6850u svt-av1 1.2



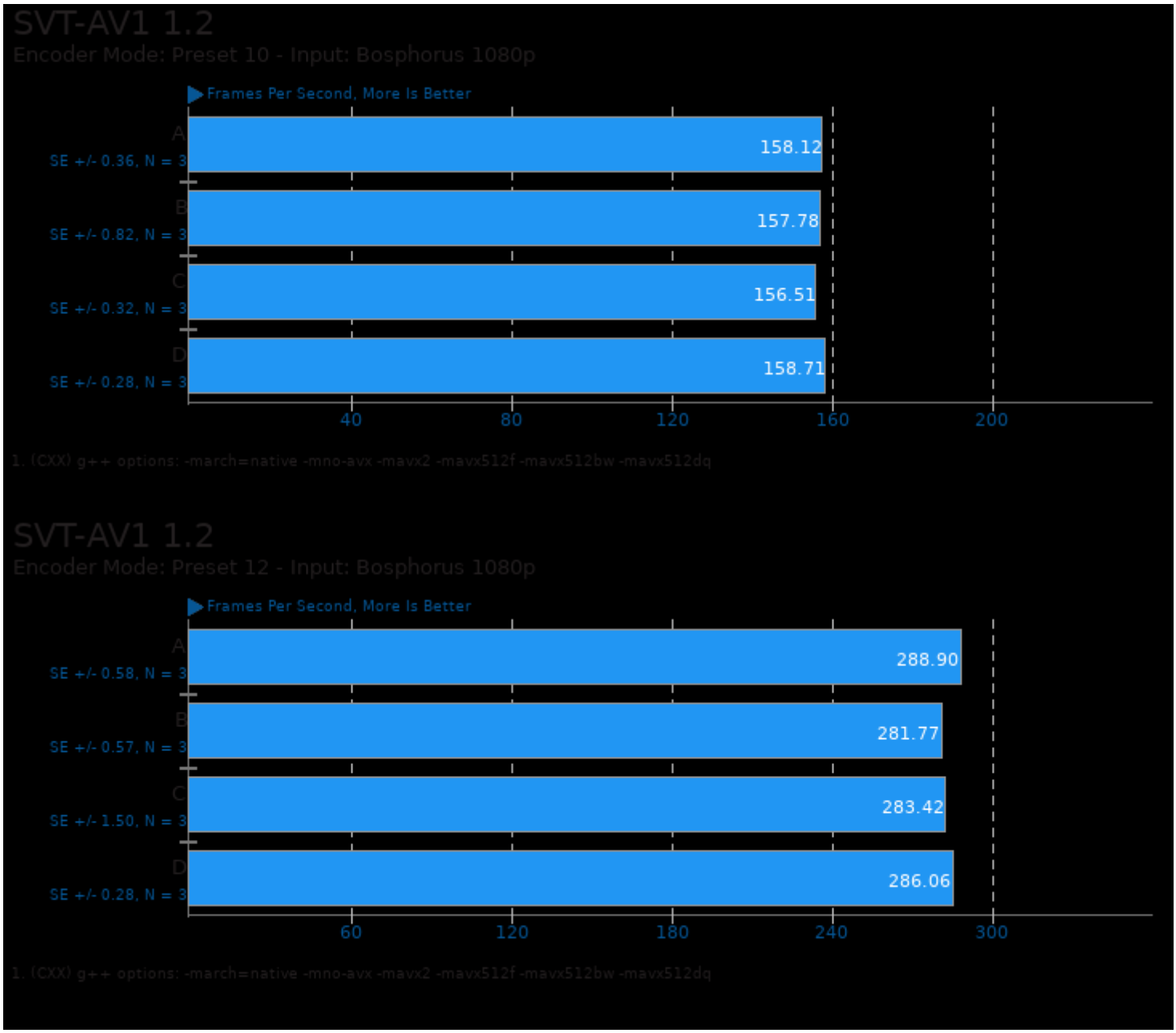
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