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svt av1 1.2 ryzen

AMD Ryzen 7 5700G testing with a ASUS TUF GAMING B550M-PLUS (WI-FI) (2423 BIOS) and ASUS AMD Cezanne 512MB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

C had the most wins, coming in first place for 37% of the tests.

Based on the geometric mean of all complete results, the fastest (A) was 1.003x the speed of the slowest (B). C was 0.999x the speed of A and B was 0.998x the speed of C.

Test Systems:

A

B

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C

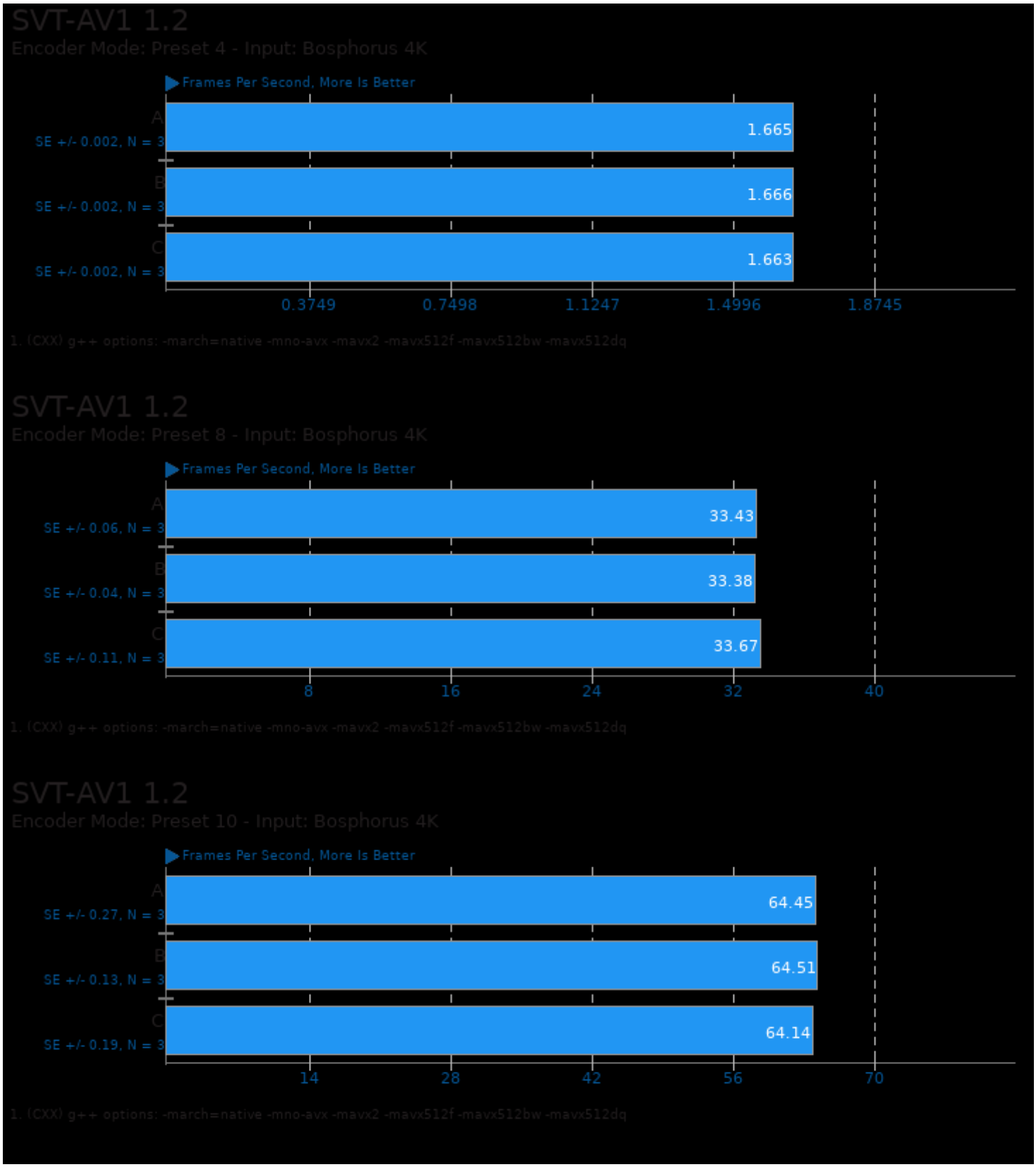
Processor: AMD Ryzen 7 5700G @ 4.67GHz (8 Cores / 16 Threads), Motherboard: ASUS TUF GAMING B550M-PLUS (WI-FI) (2423 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 16GB, Disk: 1000GB Samsung SSD 980 PRO 1TB, Graphics: ASUS AMD Cezanne 512MB (2000/1800MHz), Audio: AMD Renoir Radeon HD Audio, Monitor: MX279, Network: Realtek RTL8125 2.5GbE + Intel Wi-Fi 6 AX200

OS: Ubuntu 22.04, Kernel: 5.18.0-rc2-drm-intel-gt-next (x86_64), Desktop: GNOME Shell 42.2, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.2.0-devel (git-bfebf51 2022-07-20 jammy-oibaf-ppa) (LLVM 14.0.6 DRM 3.46), Vulkan: 1.3.219, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

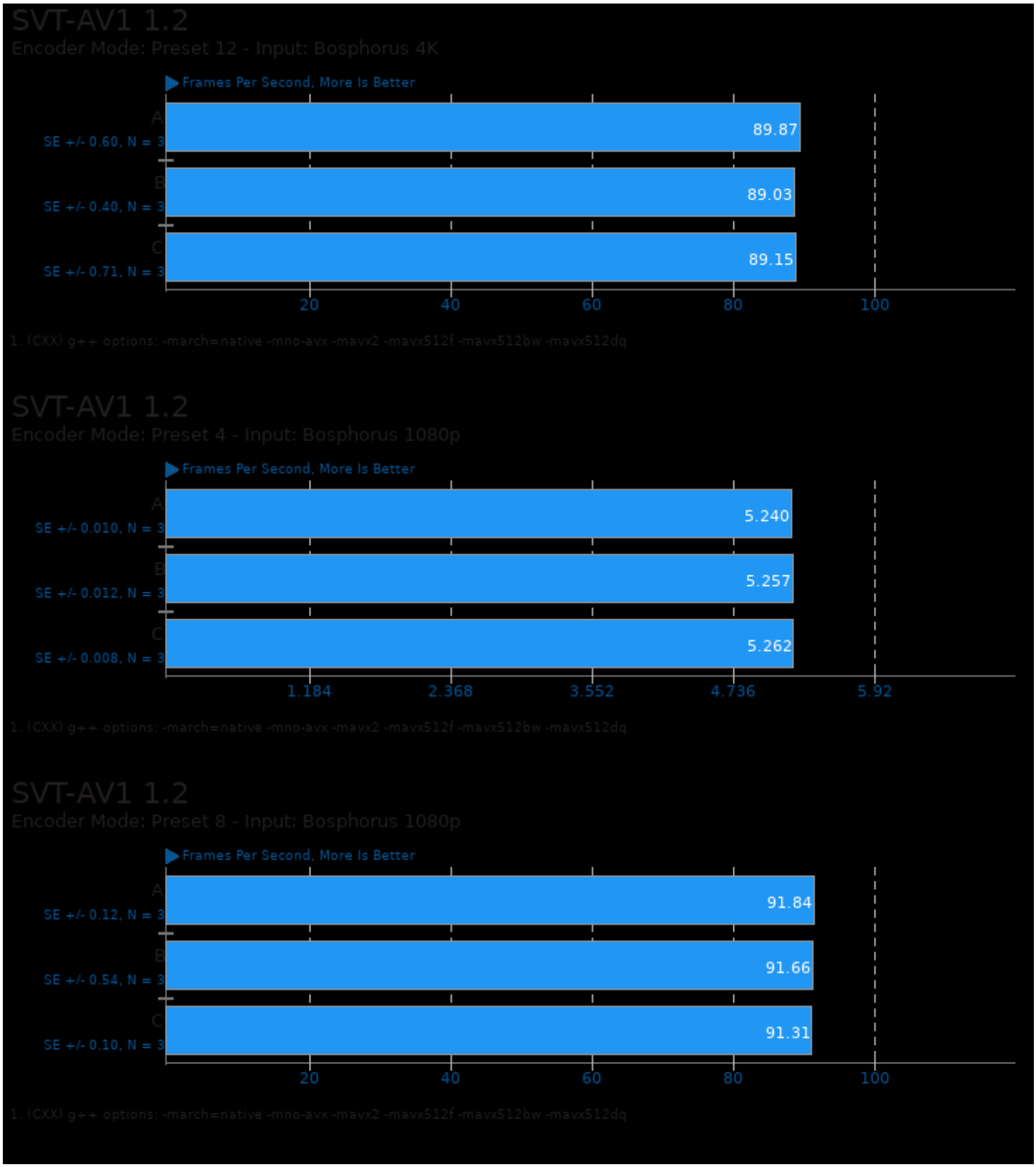
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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-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) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	1.665	**1.666**	**1.663**
Normalized	99.94%	100%	99.82%
Standard Deviation	0.2%	0.2%	0.2%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	33.425	**33.381**	**33.672**
Normalized	99.27%	99.14%	100%
Standard Deviation	0.3%	0.2%	0.5%
SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)	64.445	**64.514**	**64.136**
Normalized	99.89%	100%	99.41%
Standard Deviation	0.7%	0.3%	0.5%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	**89.873**	**89.032**	89.152
Normalized	100%	99.06%	99.2%
Standard Deviation	1.2%	0.8%	1.4%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	**5.240**	5.257	**5.262**
Normalized	99.58%	99.9%	100%
Standard Deviation	0.3%	0.4%	0.3%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	**91.844**	91.659	**91.305**
Normalized	100%	99.8%	99.41%
Standard Deviation	0.2%	1%	0.2%
SVT-AV1 - Preset 10 - Bosphorus 1080p	203.364	**203.232**	**203.773**
Normalized	99.8%	99.73%	100%
Standard Deviation	0.7%	0.2%	0.2%
SVT-AV1 - Preset 12 - Bosphorus 1080p	**339.592**	**334.792**	338.254
Normalized	100%	98.59%	99.61%
Standard Deviation	0.6%	2.5%	1.2%

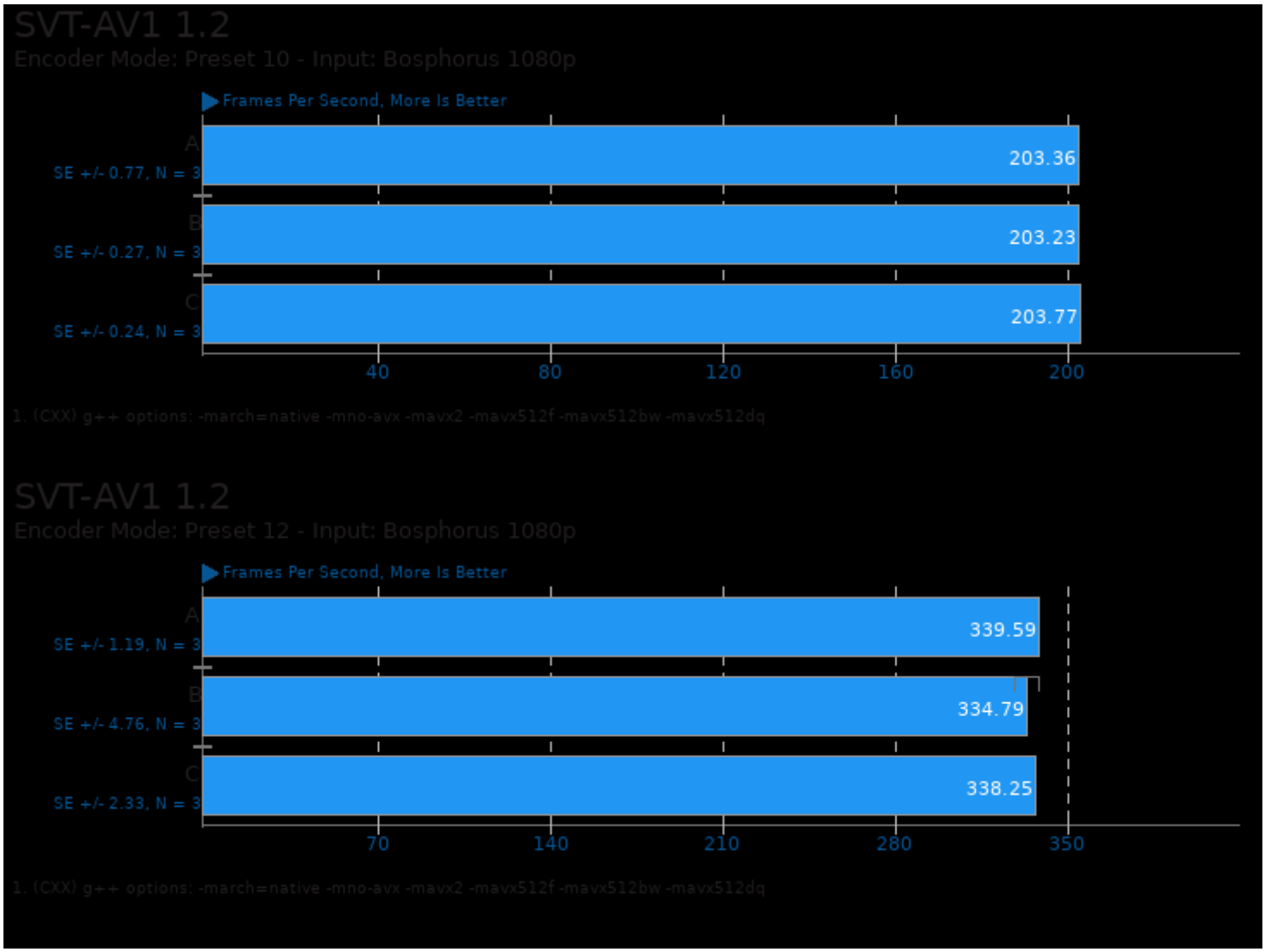
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