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svt-av1 1.0 alder lake

Intel Core i9-12900K testing with a ASUS ROG STRIX Z690-E GAMING WIFI (1003 BIOS) and eVGA NVIDIA GeForce RTX 3060 12GB on Ubuntu 21.10 via the Phoronix Test Suite.

Automated Executive Summary

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

Based on the geometric mean of all complete results, the fastest (B) was 1.004x the speed of the slowest (C). A was 0.998x the speed of B, D was 0.999x the speed of A, C was 1x the speed of D.

Test Systems:

A

B

C

D

Processor: Intel Core i9-12900K @ 5.20GHz (16 Cores / 24 Threads), Motherboard: ASUS ROG STRIX Z690-E GAMING WIFI (1003 BIOS), Chipset: Intel Device 7aa7, Memory: 32GB, Disk: 1000GB Western Digital WDS100T1X0E-00AFY0, Graphics: eVGA NVIDIA GeForce RTX 3060 12GB, Audio: Intel Device 7ad0, Monitor: ASUS VP28U, Network: Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 21.10, Kernel: 5.17.0-051700-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13, Display Driver: NVIDIA 510.60.02, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.6.127, Vulkan: 1.3.194, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

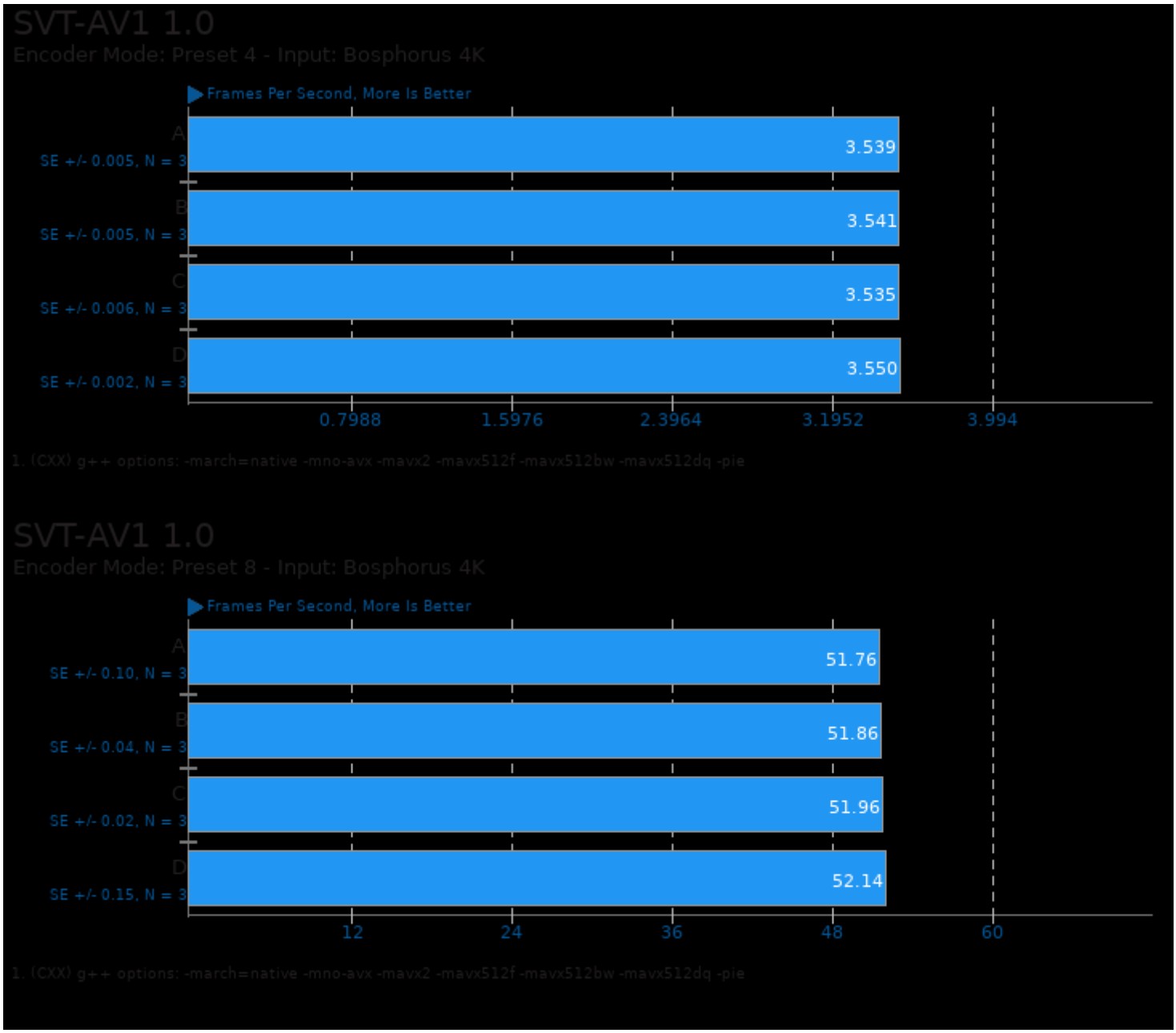
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-ZPT0kp/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 2.4.6
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	D
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	3.539	3.541	**3.535**	**3.550**
Normalized	99.69%	99.75%	99.58%	100%
Standard Deviation	0.2%	0.3%	0.3%	0.1%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	**51.758**	51.859	51.955	**52.140**
Normalized	99.27%	99.46%	99.65%	100%
Standard Deviation	0.3%	0.1%	0.1%	0.5%
SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)	129.347	129.898	**130.621**	**127.581**
Normalized	99.02%	99.45%	100%	97.67%
Standard Deviation	0.6%	0.5%	0.9%	1.5%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	177.184	176.757	**175.055**	**177.724**
Normalized	99.7%	99.46%	98.5%	100%
Standard Deviation	0.7%	1.1%	1.4%	1.7%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	9.174	**9.212**	9.210	**9.169**
Normalized	99.59%	100%	99.98%	99.53%
Standard Deviation	0.4%	0.2%	0.7%	1.3%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	169.864	**171.090**	169.545	**168.461**
Normalized	99.28%	100%	99.1%	98.46%
Standard Deviation	1.2%	1.1%	1.9%	1%

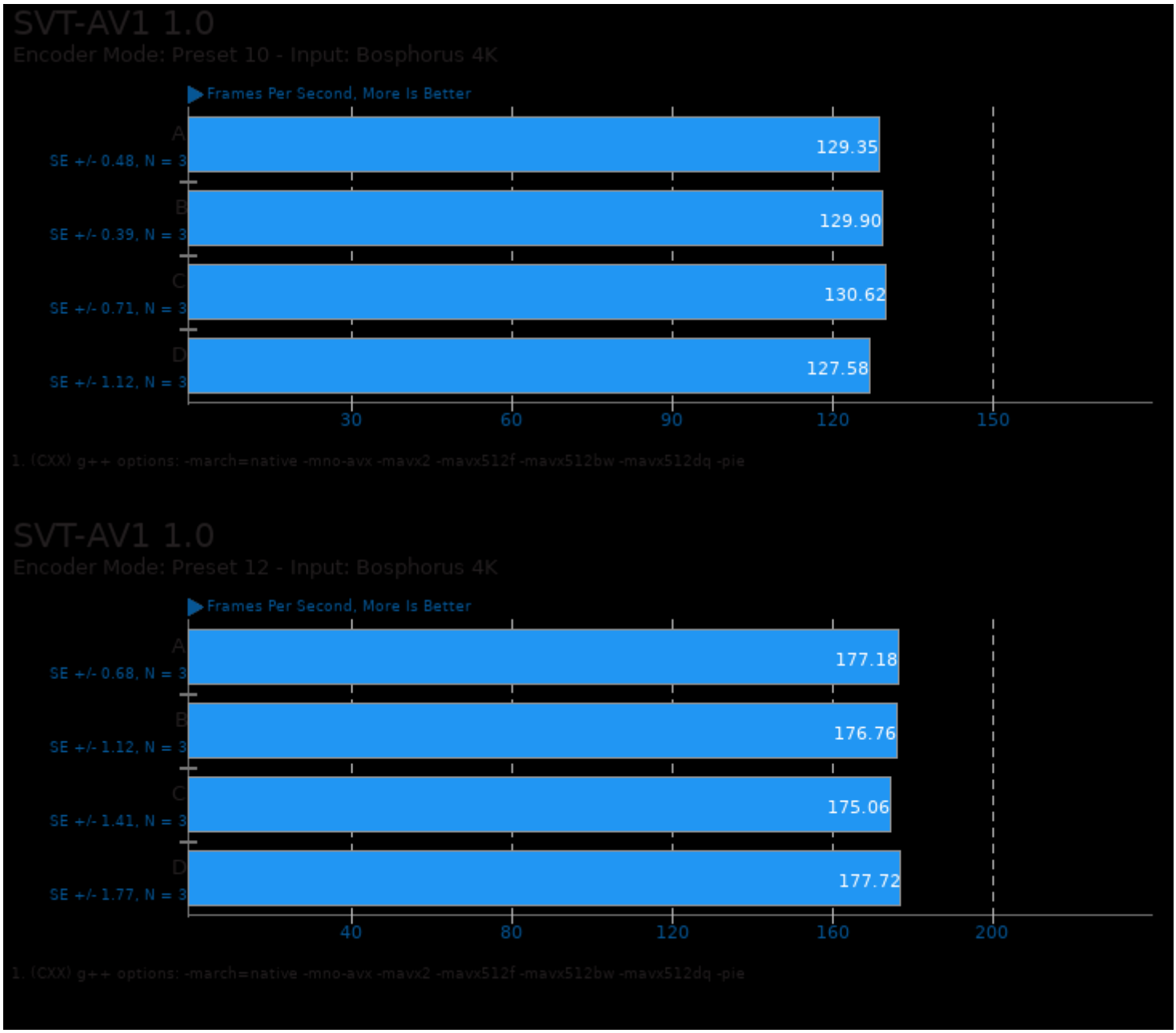
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SVT-AV1 - Preset 10 - Bosphorus 1080p (FPS)	332.493	**333.623**	**327.884**	328.679
Normalized	99.66%	100%	98.28%	98.52%
Standard Deviation	1.8%	1.3%	0.5%	1.7%
SVT-AV1 - Preset 12 - Bosphorus 1080p (FPS)	554.679	**554.149**	555.229	**560.427**
Normalized	98.97%	98.88%	99.07%	100%
Standard Deviation	1%	1.9%	1%	3.3%

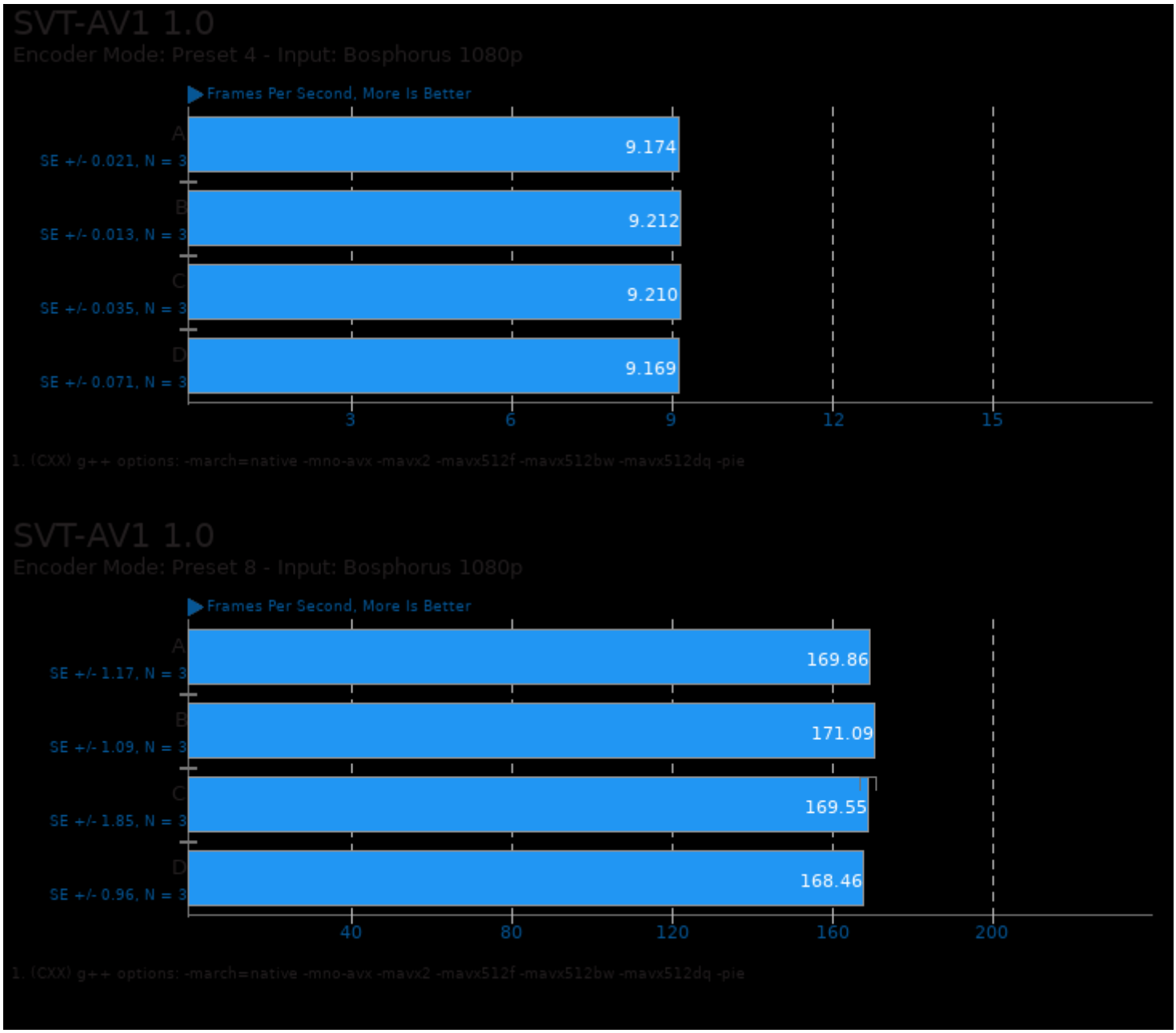
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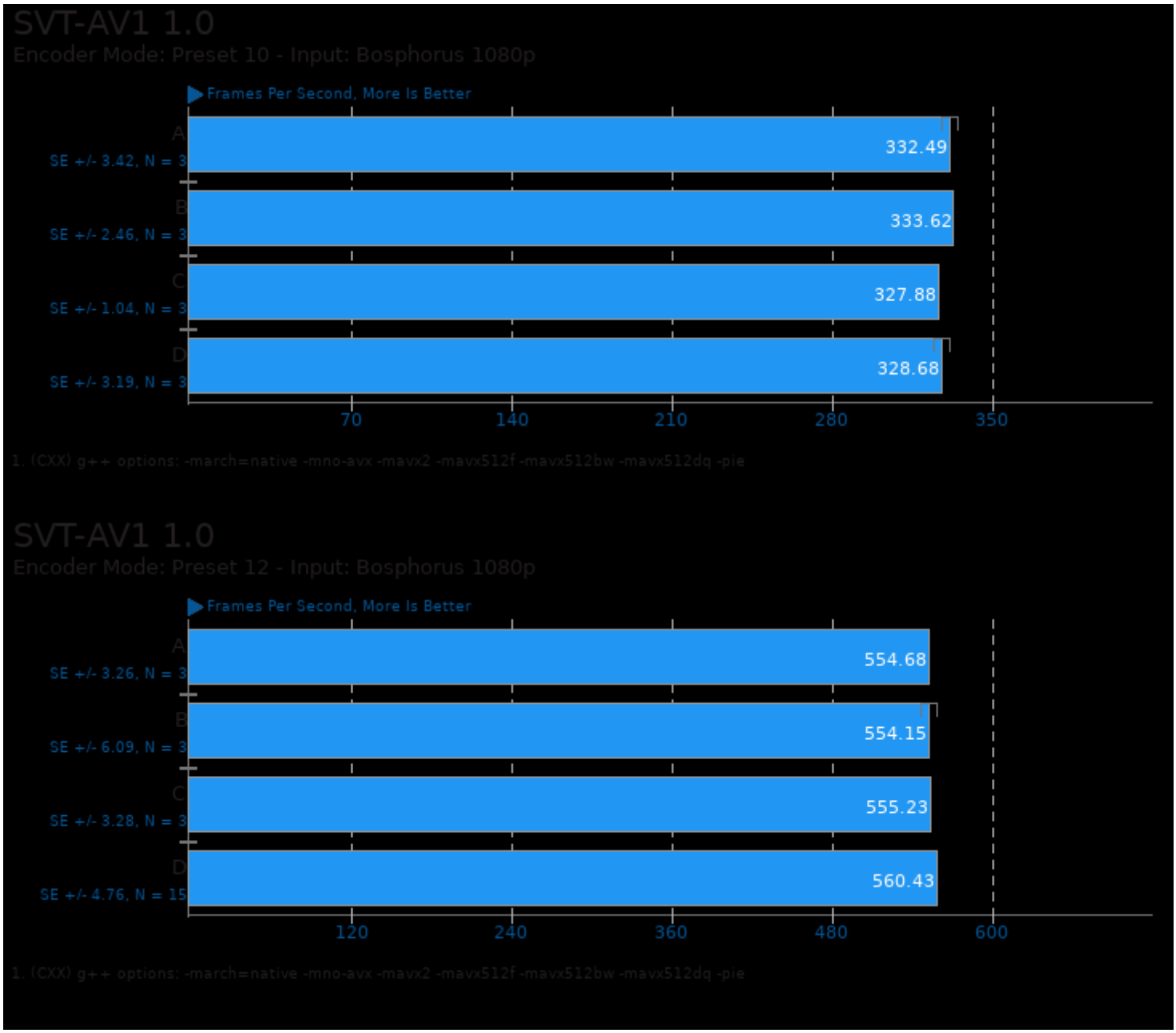
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