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Intel Core i7-1280P testing with a MSI MS-14C6 (E14C6IMS.115 BIOS) and MSI Intel ADL GT2 15GB on Ubuntu 22.04 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 (D) was 1.018x the speed of the slowest (A). B was 0.997x the speed of D, \c was 1x the speed of B, A was 0.986x the speed of \c.

Test Systems:

A

B

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\c

D

Processor: Intel Core i7-1280P @ 4.80GHz (14 Cores / 20 Threads), Motherboard: MSI MS-14C6 (E14C6IMS.115 BIOS), Chipset: Intel Alder Lake PCH, Memory: 16GB, Disk: 1024GB Micron_3400_MTFDKBA1T0TFH, Graphics: MSI Intel ADL GT2 15GB (1450MHz), Audio: Realtek ALC274, Network: Intel Alder Lake-P PCH CNVi WiFi

OS: Ubuntu 22.04, Kernel: 5.19.0-051900rc7daily20220723-generic (x86_64), Desktop: GNOME Shell 42.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.2.0-devel (git-4ff28bd 2022-07-25 jammy-oibaf-ppa), Vulkan: 1.3.219, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

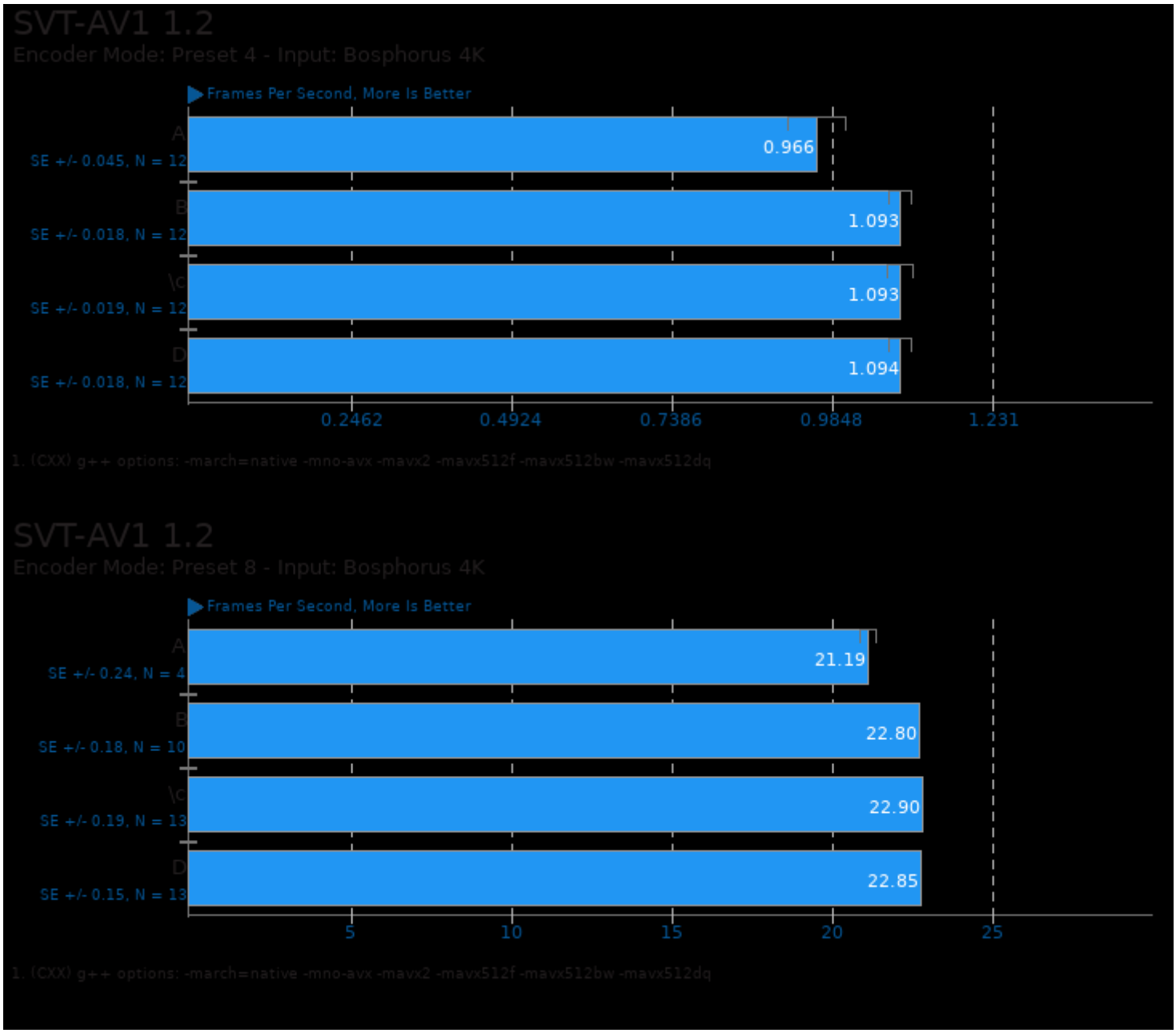
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0x41c - Thermald 2.4.9
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: 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)	**0.966**	1.093	1.093	**1.094**
Normalized	88.3%	99.91%	99.91%	100%
Standard Deviation	16.1%	5.6%	5.9%	5.8%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	**21.190**	22.802	**22.903**	22.849
Normalized	92.52%	99.56%	100%	99.76%
Standard Deviation	2.3%	2.5%	3%	2.3%
SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)	**55.544**	52.855	**52.656**	52.933
Normalized	100%	95.16%	94.8%	95.3%
Standard Deviation	6.1%	9.6%	10.6%	10.8%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	**90.410**	**87.883**	88.788	88.138
Normalized	100%	97.2%	98.21%	97.49%
Standard Deviation	10.7%	9.2%	8.9%	8.8%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	**3.489**	**3.515**	3.501	3.503
Normalized	99.26%	100%	99.6%	99.66%
Standard Deviation	1.5%	2%	2%	1.7%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	65.129	65.184	**64.986**	**65.408**
Normalized	99.57%	99.66%	99.35%	100%
Standard Deviation	9.6%	12%	10%	9.3%

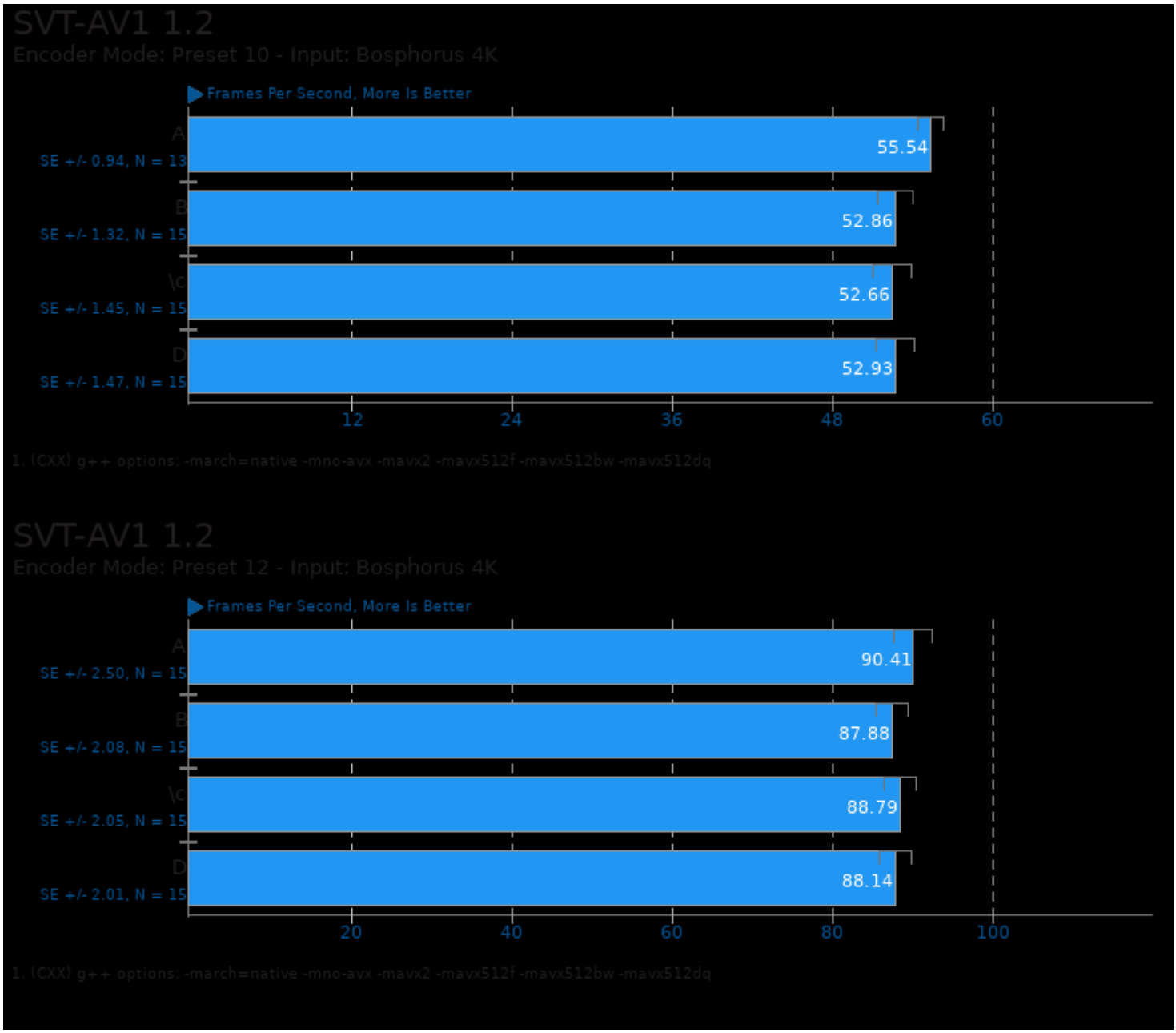
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SVT-AV1 - Preset 10 - Bosphorus 1080p (FPS)	219.741	219.653	**217.667**	**220.472**
Normalized	99.67%	99.63%	98.73%	100%
Standard Deviation	0.5%	0.2%	0.8%	1%
SVT-AV1 - Preset 12 - Bosphorus 1080p (FPS)	388.423	**383.877**	385.091	**390.131**
Normalized	99.56%	98.4%	98.71%	100%
Standard Deviation	0.6%	0.9%	0.4%	0.3%

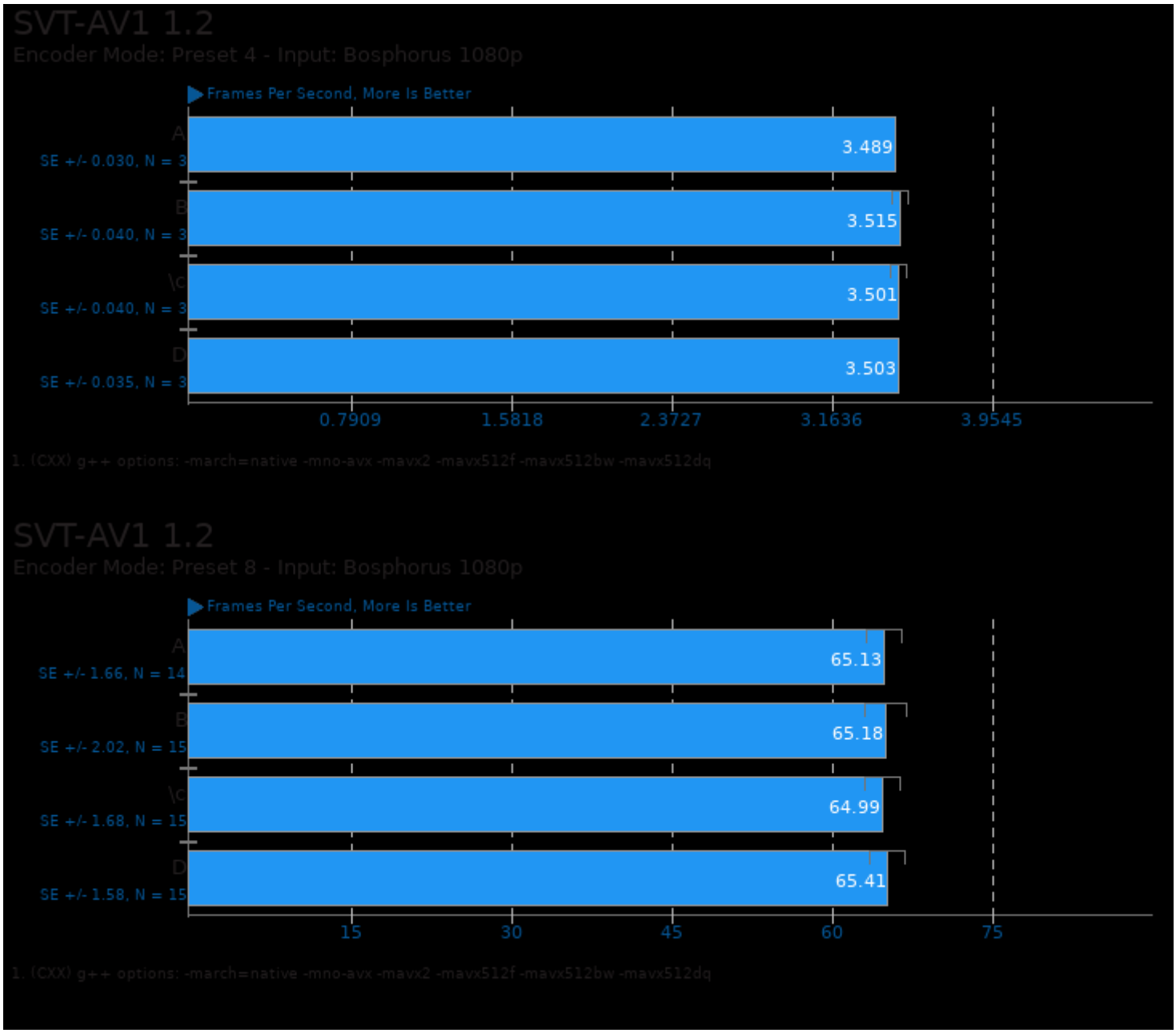
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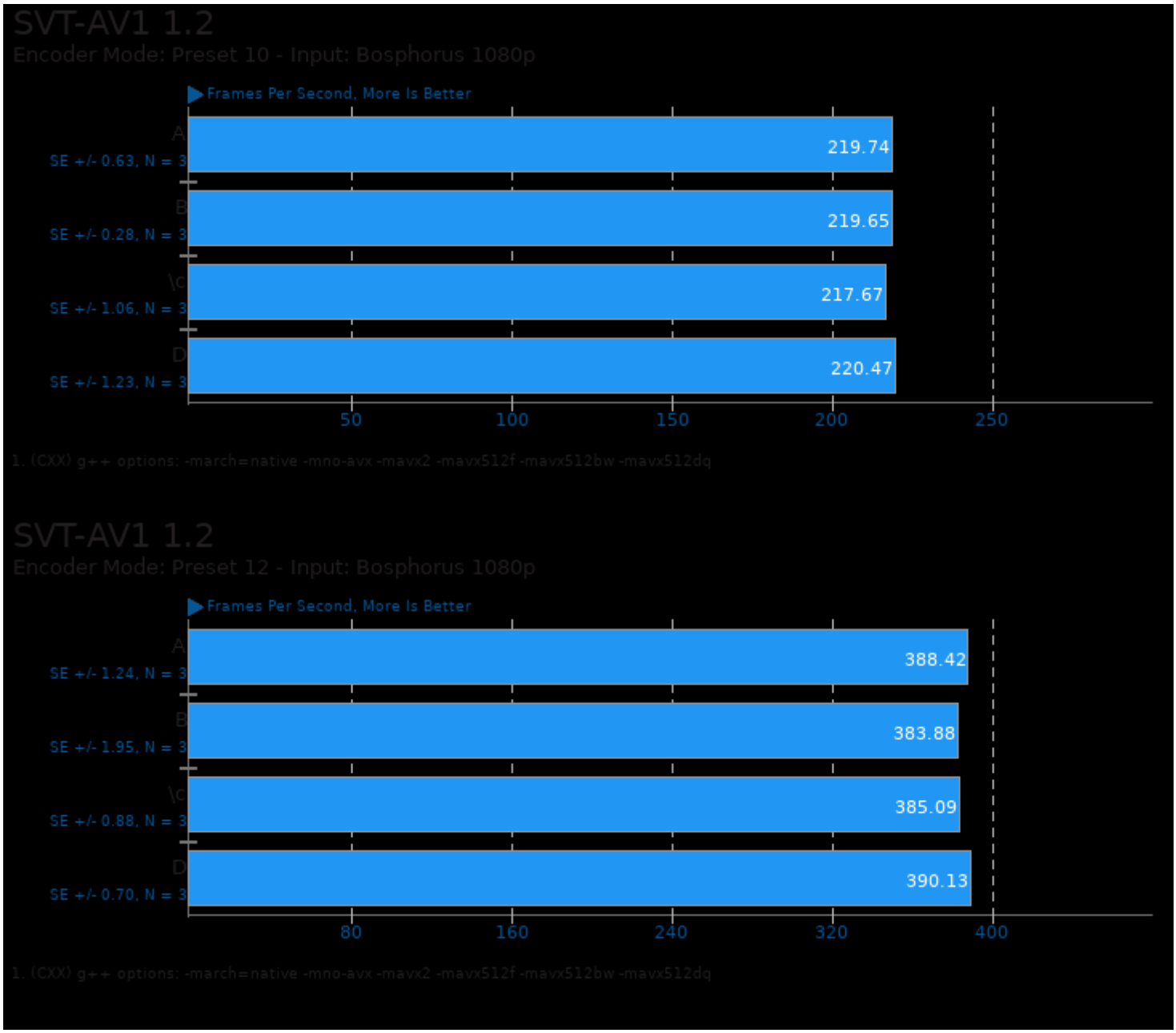
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