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svt av1 1.2 threadripper

AMD Ryzen Threadripper 3990X 64-Core testing with a Gigabyte TRX40 AORUS PRO WIFI (F4p BIOS) and AMD Radeon RX 5700 8GB 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 (B) was 1.007x the speed of the slowest (C). A was 0.998x the speed of B, D was 0.995x the speed of A, C was 1x the speed of D.

Test Systems:

A

B

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C

D

Processor: AMD Ryzen Threadripper 3990X 64-Core @ 2.90GHz (64 Cores / 128 Threads), Motherboard: Gigabyte TRX40 AORUS PRO WIFI (F4p BIOS), Chipset: AMD Starship/Matisse, Memory: 128GB, Disk: Samsung SSD 970 EVO Plus 500GB, Graphics: AMD Radeon RX 5700 8GB (1750/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: DELL P2415Q, Network: Intel I211 + Intel Wi-Fi 6 AX200

OS: Ubuntu 22.04, Kernel: 5.19.0-051900rc7-generic (x86_64), Desktop: GNOME Shell 42.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.47), Vulkan: 1.2.204, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

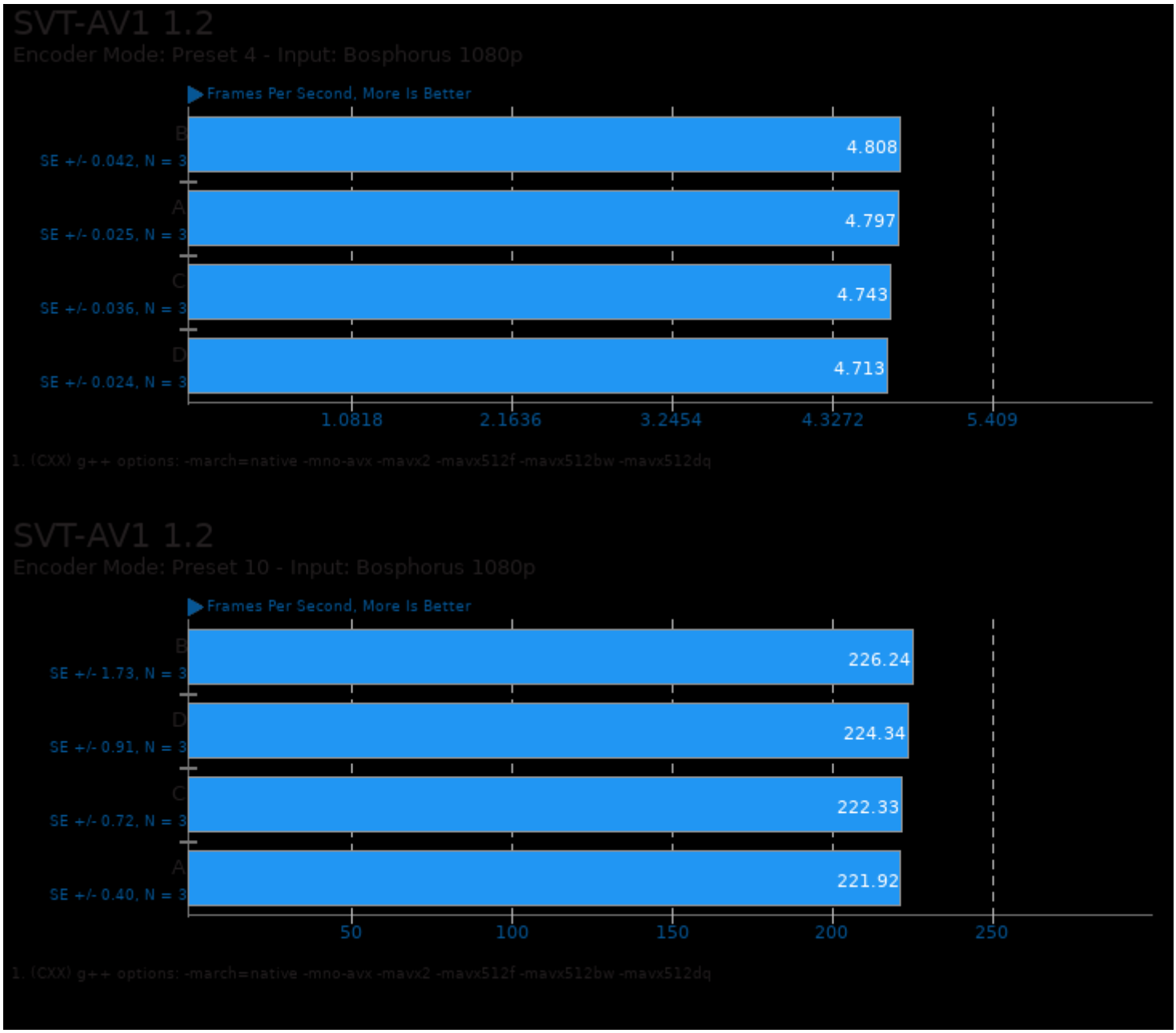
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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-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: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8301039
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Mitigation of untrained return thunk; SMT enabled with STIBP protection + 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 STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C	D
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	4.797	**4.808**	4.743	**4.713**
Normalized	99.77%	100%	98.65%	98.02%
Standard Deviation	0.9%	1.5%	1.3%	0.9%
SVT-AV1 - Preset 10 - Bosphorus 1080p (FPS)	**221.922**	**226.242**	222.328	224.344
Normalized	98.09%	100%	98.27%	99.16%
Standard Deviation	0.3%	1.3%	0.6%	0.7%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	**101.632**	101.594	**100.335**	100.525
Normalized	100%	99.96%	98.72%	98.91%
Standard Deviation	0.2%	0.7%	0.8%	0.8%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	**55.519**	55.473	**54.989**	55.229
Normalized	100%	99.92%	99.05%	99.48%
Standard Deviation	0.7%	1.6%	0.8%	0.5%
SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)	**94.047**	93.736	**93.433**	93.545
Normalized	100%	99.67%	99.35%	99.47%
Standard Deviation	0.3%	0.4%	1.1%	1.3%
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	**2.106**	2.101	**2.106**	**2.094**
Normalized	100%	99.76%	100%	99.43%
Standard Deviation	0.8%	0.1%	0.4%	0.5%

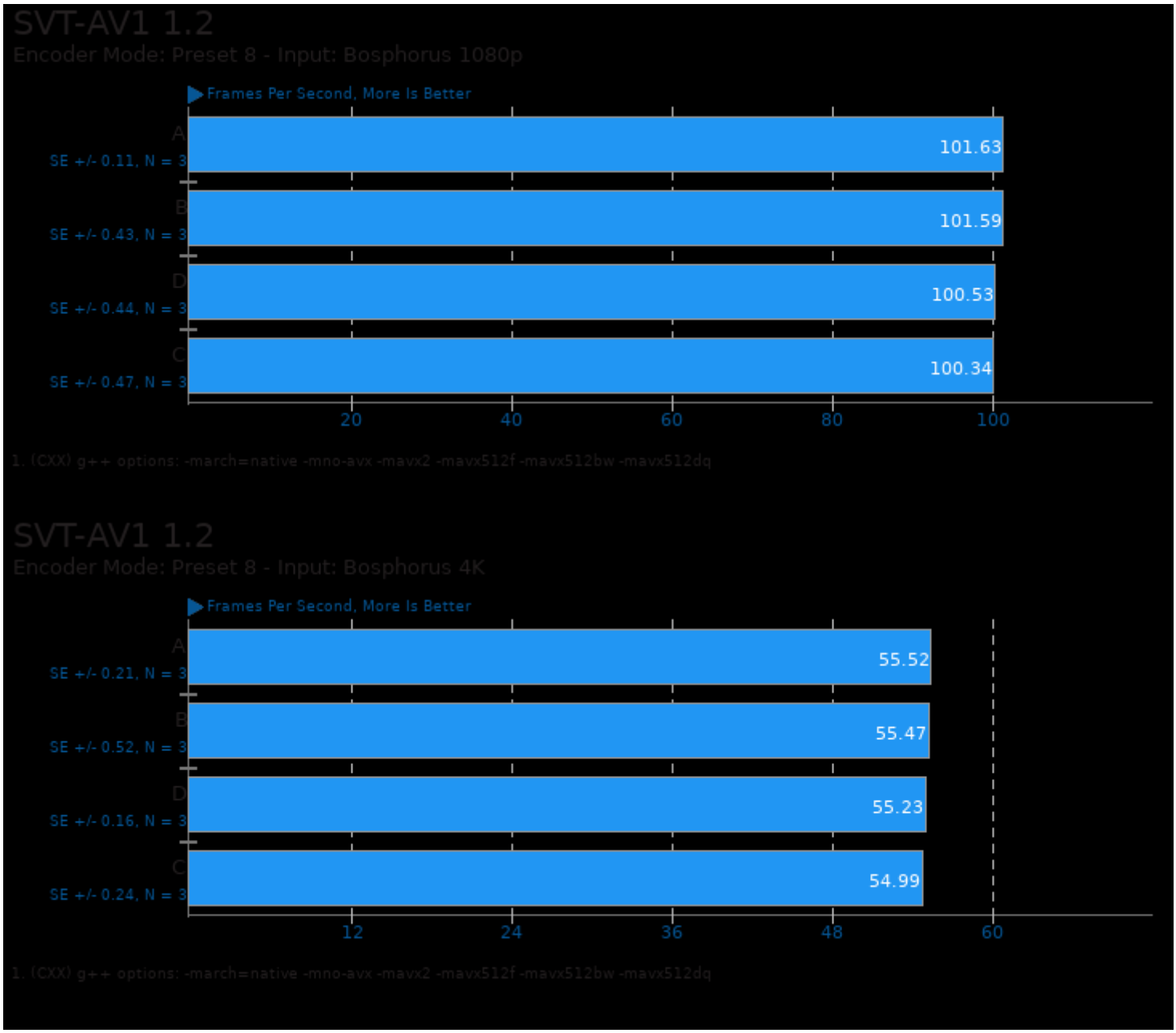
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SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	**136.817**	136.225	**136.129**	136.599
Normalized	100%	99.57%	99.5%	99.84%
Standard Deviation	0.5%	1.4%	0.6%	2%
SVT-AV1 - Preset 12 - Bosphorus 1080p (FPS)	340.332	**341.190**	340.994	**339.487**
Normalized	99.75%	100%	99.94%	99.5%
Standard Deviation	0.4%	1%	0.7%	0.5%

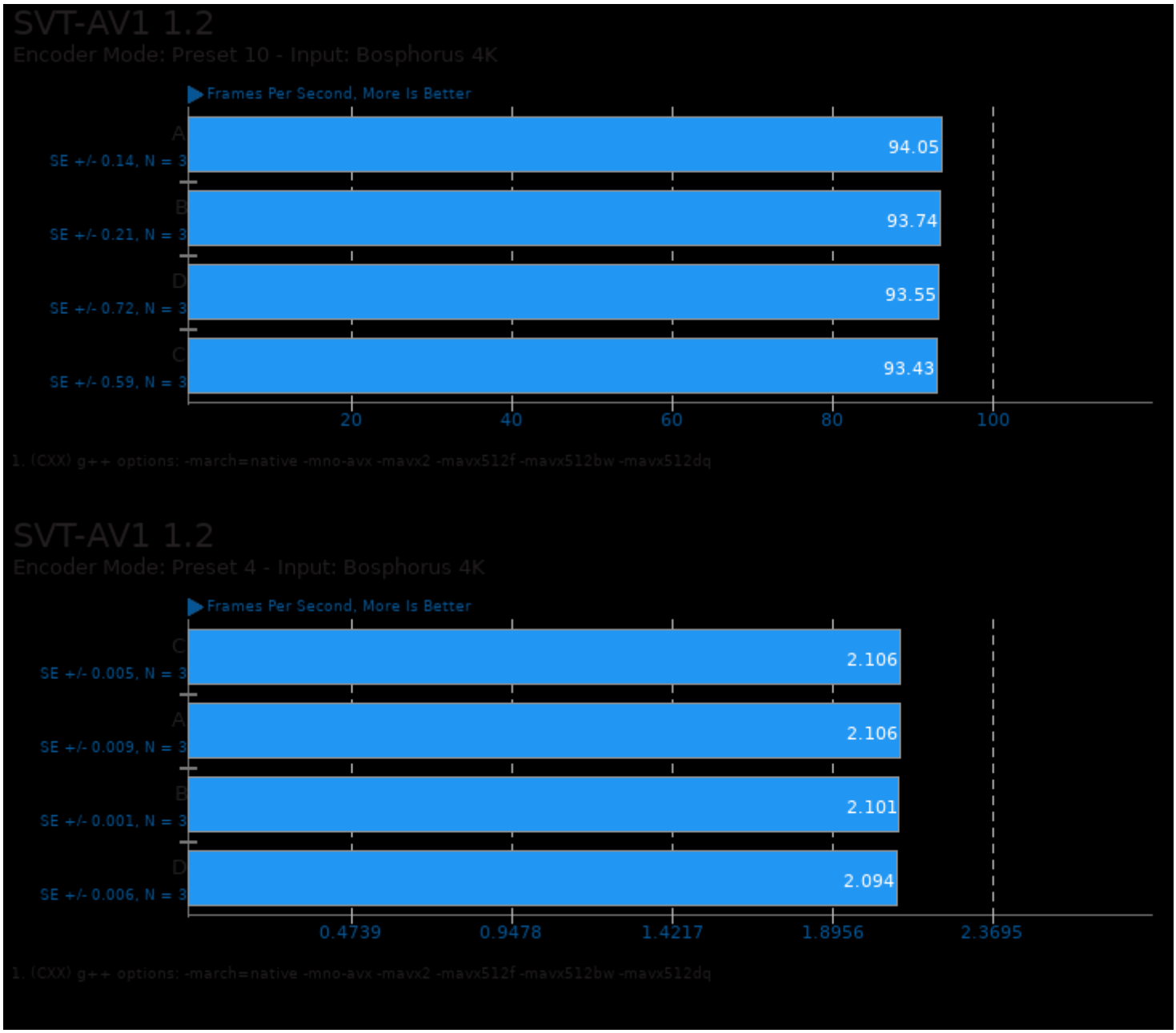
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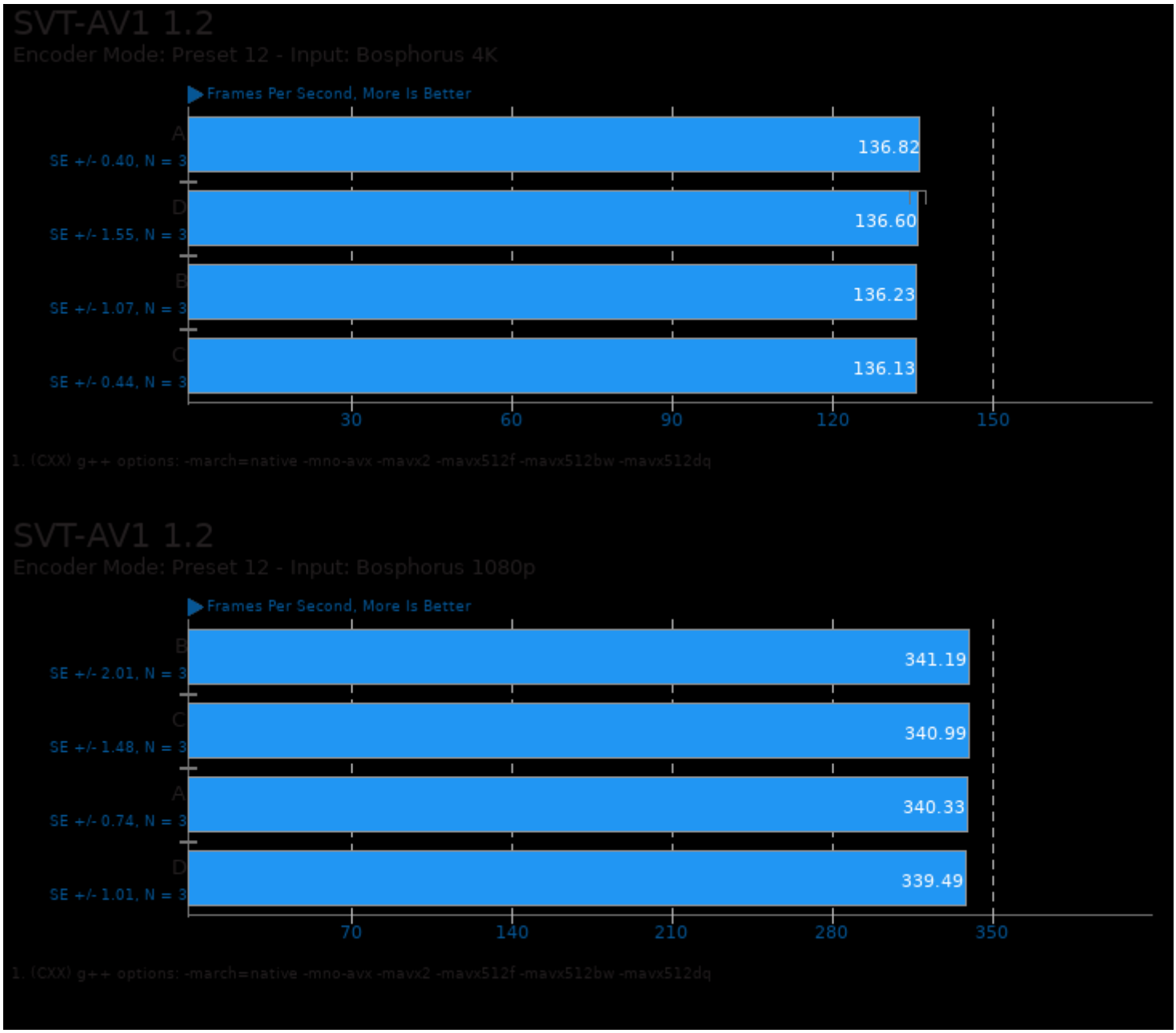
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