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svt av1 1.2

AMD Ryzen 3 3200U testing with a MOTILE PF4PU1F (N.1.03 BIOS) and AMD Radeon Vega 3 512MB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

B had the most wins, coming in first place for 87% 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 0.994x the speed of B and C was 0.999x the speed of A.

Test Systems:

A

B

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C

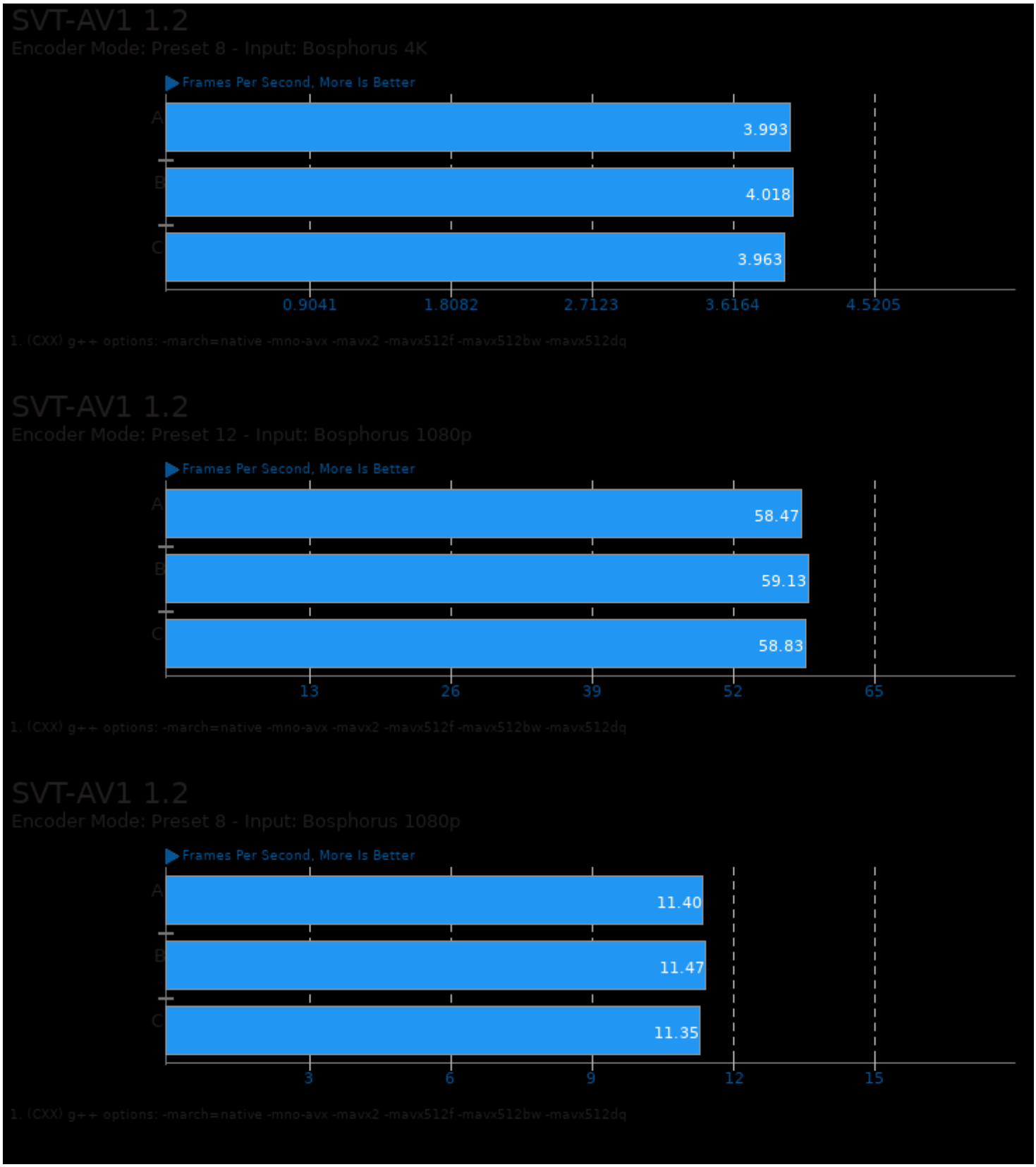
Processor: AMD Ryzen 3 3200U @ 2.60GHz (2 Cores / 4 Threads), Motherboard: MOTILE PF4PU1F (N.1.03 BIOS), Chipset: AMD Raven/Raven2, Memory: 3584MB, Disk: 128GB BIWIN SSD, Graphics: AMD Radeon Vega 3 512MB (1200/1200MHz), Audio: AMD Raven/Raven2/Fenghuang, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Ubuntu 20.04, Kernel: 5.15.0-051500-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 22.0.0-devel (git-9cb9101 2022-01-08 focal-oibaf-ppa) (LLVM 13.0.0 DRM 3.42), Compiler: GCC 9.4.0, File-System: ext4, Screen Resolution: 1920x1080

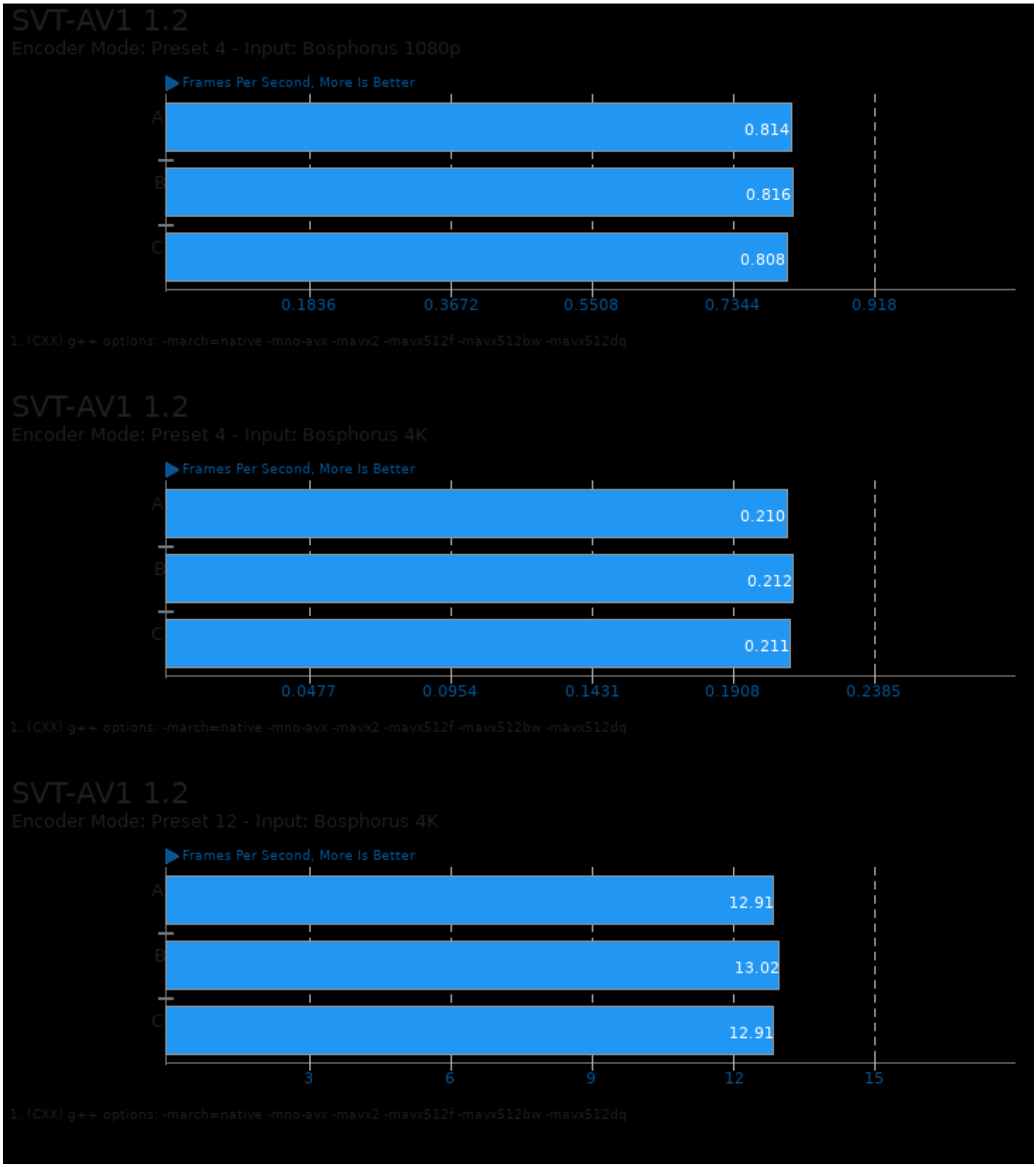
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-Av3uEd/gcc-9-9.4.0/debian/tmp-nvptx/usr,hsa --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-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 ondemand (Boost: Enabled) - CPU Microcode: 0x8108102
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: 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 Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	3.993	**4.018**	**3.963**
Normalized	99.38%	100%	98.63%
SVT-AV1 - Preset 12 - Bosphorus 1080p	**58.474**	**59.126**	58.831
Normalized	98.9%	100%	99.5%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	11.397	**11.471**	**11.352**
Normalized	99.35%	100%	98.96%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	0.814	**0.816**	**0.808**
Normalized	99.75%	100%	99.02%
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	**0.21**	**0.212**	0.211
Normalized	99.06%	100%	99.53%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	**12.906**	**13.015**	12.914
Normalized	99.16%	100%	99.22%
SVT-AV1 - Preset 10 - Bosphorus 1080p	27.853	**27.913**	**27.711**
Normalized	99.79%	100%	99.28%
SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)	8.757	**8.752**	**8.784**
Normalized	99.69%	99.64%	100%

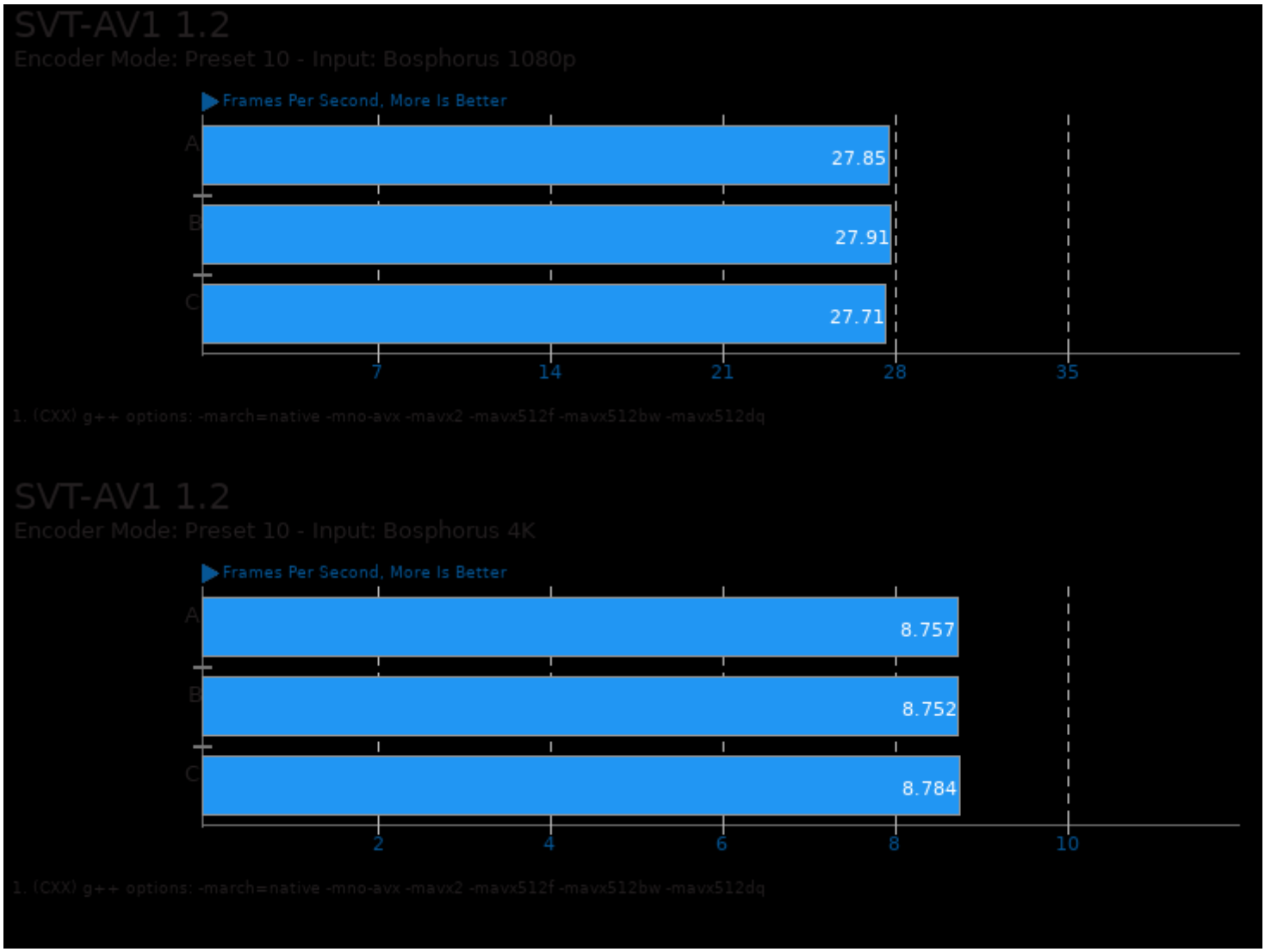
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SVT-AV1 1.2
Encoder Mode: Preset 8 - Input: Bosphorus 4K
Frames Per Second, More Is Better
A
B
C
3.993
4.018
3.963
0.9041
1.8082
2.7123
3.6164
4.5205
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq
SVT-AV1 1.2
Encoder Mode: Preset 12 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
A
B
C
58.47
59.13
58.83
13
26
39
52
65
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq
SVT-AV1 1.2
Encoder Mode: Preset 8 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
A
B
C
11.40
11.47
11.35
3
6
9
12
15
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

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SVT-AV1 1.2
Encoder Mode: Preset 4 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
A
B
C
0.814
0.816
0.808
0.1836
0.3672
0.5508
0.7344
0.918
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq
SVT-AV1 1.2
Encoder Mode: Preset 4 - Input: Bosphorus 4K
Frames Per Second, More Is Better
A
B
C
0.210
0.212
0.211
0.0477
0.0954
0.1431
0.1908
0.2385
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq
SVT-AV1 1.2
Encoder Mode: Preset 12 - Input: Bosphorus 4K
Frames Per Second, More Is Better
A
B
C
12.91
13.02
12.91
3
6
9
12
15
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 06:39.