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Core i5 12400 Video Encoding

Intel Core i5-12400 testing with a ASUS PRIME Z690-P WIFI D4 (0605 BIOS) and llvmpipe on Ubuntu 21.10 via the Phoronix Test Suite.

Automated Executive Summary

A had the most wins, coming in first place for 53% of the tests.

Based on the geometric mean of all complete results, the fastest (A) was 1.006x the speed of the slowest (B). C was 0.995x the speed of A and B was 0.999x the speed of C.

The results with the greatest spread from best to worst included:

SVT-VP9 (Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p) at 1.086x

SVT-VP9 (Tuning: VMAF Optimized - Input: Bosphorus 1080p) at 1.063x

FFmpeg (H.264 HD To NTSC DV) at 1.05x

VP9 libvpx Encoding (Speed: Speed 0 - Input: Bosphorus 1080p) at 1.037x

AOM AV1 (Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K) at 1.037x

x265 (Video Input: Bosphorus 1080p) at 1.033x

x265 (Video Input: Bosphorus 4K) at 1.027x

x264 (H.264 Video Encoding) at 1.026x

dav1d (Video Input: Chimera 1080p 10-bit) at 1.025x

AOM AV1 (Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p) at 1.025x.

Test Systems:

A

B

C

Processor: Intel Core i5-12400 @ 5.60GHz (6 Cores / 12 Threads), Motherboard: ASUS PRIME Z690-P WIFI D4 (0605 BIOS), Chipset: Intel Device 7aa7, Memory: 16GB, Disk: 1000GB Western Digital WDS100T1X0E-00AFY0, Graphics: llvmpipe, Audio: Realtek ALC897, Network: Realtek RTL8125 2.5GbE + Intel Device 7af0

OS: Ubuntu 21.10, Kernel: 5.15.7-051507-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13, OpenGL: 4.5 Mesa 22.0.0-devel (git-d80c7f3 2021-11-14 impish-oibaf-ppa) (LLVM 13.0.0 256 bits), Vulkan: 1.2.197, 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-multiabi --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: 0x12 - 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 and seccomp + spectre_v1: Mitigation of usercopy/swaps 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
dav1d - Chimera 1080p (FPS)	704.24	695.2	698.77
Normalized	100%	98.72%	99.22%
Standard Deviation	0.3%		
dav1d - Summer Nature 4K (FPS)	188.12	186.6	185.77
Normalized	100%	99.19%	98.75%
Standard Deviation	0.4%		
dav1d - S.N.1 (FPS)	617.95	621.61	622.57
Normalized	99.26%	99.85%	100%
Standard Deviation	0.8%		
dav1d - C.1.1.b (FPS)	560.57	552.61	546.71
Normalized	100%	98.58%	97.53%
Standard Deviation	0.1%		

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AOM AV1 - Speed 0 Two-Pass - Bosphorus	0.12 4K (FPS)	0.12	0.12
	Standard Deviation 0%		
AOM AV1 - Speed 4 Two-Pass - Bosphorus	4.15 4K (FPS)	4.12	4.15
	Normalized 100%	99.28%	100%
	Standard Deviation 0%		
AOM AV1 - Speed 6 Realtime - Bosphorus	11.12 4K (FPS)	11.25	10.85
	Normalized 98.84%	100%	96.44%
	Standard Deviation 2.4%		
AOM AV1 - Speed 6 Two-Pass - Bosphorus	8.72 4K (FPS)	8.71	8.71
	Normalized 100%	99.89%	99.89%
	Standard Deviation 0.1%		
AOM AV1 - Speed 8 Realtime - Bosphorus	43.38 4K (FPS)	43.2	43.06
	Normalized 100%	99.59%	99.26%
	Standard Deviation 0.1%		
AOM AV1 - Speed 9 Realtime - Bosphorus	59.81 4K (FPS)	59.58	59.46
	Normalized 100%	99.62%	99.41%
	Standard Deviation 0.2%		
AOM AV1 - Speed 10 Realtime - Bosphorus	66.02 4K (FPS)	65.77	65.7
	Normalized 100%	99.62%	99.52%
	Standard Deviation 0.1%		
AOM AV1 - Speed 0 Two-Pass - Bosphorus	0.31 1080p (FPS)	0.31	0.31
	Standard Deviation 0%		
AOM AV1 - Speed 4 Two-Pass - Bosphorus	9.70 1080p (FPS)	9.66	9.69
	Normalized 100%	99.59%	99.9%
	Standard Deviation 0.2%		
AOM AV1 - Speed 6 Realtime - Bosphorus	10.22 1080p (FPS)	10.14	10.39
	Normalized 98.36%	97.59%	100%
	Standard Deviation 1.2%		
AOM AV1 - Speed 6 Two-Pass - Bosphorus	25.98 1080p (FPS)	26.02	26
	Normalized 99.85%	100%	99.92%
	Standard Deviation 0.2%		
AOM AV1 - Speed 8 Realtime - Bosphorus	134.94 1080p (FPS)	135.5	135.29
	Normalized 99.59%	100%	99.85%
	Standard Deviation 0.7%		
AOM AV1 - Speed 9 Realtime - Bosphorus	170.10 1080p (FPS)	171.27	171.41
	Normalized 99.24%	99.92%	100%
	Standard Deviation 0.4%		

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AOM AV1 - Speed 10 Realtime - Bosphorus 1080p (FPS)	185.50	185.58	185.36
Normalized	99.96%	100%	99.88%
Standard Deviation	0.3%		
Kvazaar - Bosphorus 4K - Slow (FPS)	6.58	6.57	6.56
Normalized	100%	99.85%	99.7%
Standard Deviation	0.4%		
Kvazaar - Bosphorus 4K - Medium (FPS)	6.75	6.71	6.71
Normalized	100%	99.41%	99.41%
Standard Deviation	0.1%		
Kvazaar - Bosphorus 1080p - Slow (FPS)	31.32	31.22	31.27
Normalized	100%	99.68%	99.84%
Standard Deviation	0.3%		
Kvazaar - Bosphorus 1080p - Medium (FPS)	32.31	32.32	32.34
Normalized	99.91%	99.94%	100%
Standard Deviation	0.1%		
Kvazaar - Bosphorus 4K - Very Fast (FPS)	15.17	15.13	15.15
Normalized	100%	99.74%	99.87%
Standard Deviation	0.2%		
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	26.88	26.89	26.9
Normalized	99.93%	99.96%	100%
Standard Deviation	0.2%		
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	65.15	65.19	65.27
Normalized	99.82%	99.88%	100%
Standard Deviation	0.2%		
Kvazaar - Bosphorus 1080p - Ultra Fast	114.43	114.55	114.22
Normalized	99.9%	100%	99.71%
Standard Deviation	0.2%		
rav1e - 1 (FPS)	0.470	0.461	0.461
Normalized	100%	98.09%	98.09%
Standard Deviation	0.2%		
rav1e - 5 (FPS)	2.627	2.64	2.612
Normalized	99.51%	100%	98.94%
Standard Deviation	1.5%		
rav1e - 6 (FPS)	3.568	3.603	3.58
Normalized	99.03%	100%	99.36%
Standard Deviation	1.9%		
rav1e - 10 (FPS)	9.642	9.614	9.709
Normalized	99.31%	99.02%	100%
Standard Deviation	0.8%		
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	1.558	1.552	1.551
Normalized	100%	99.61%	99.55%
Standard Deviation	0.1%		
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	16.599	16.38	16.418
Normalized	100%	98.68%	98.91%
Standard Deviation	0.6%		
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	4.193	4.156	4.178
Normalized	100%	99.12%	99.64%
Standard Deviation	0.6%		
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	51.928	51.238	51.153
Normalized	100%	98.67%	98.51%
Standard Deviation	0.3%		
SVT-HEVC - 1 - Bosphorus 1080p (FPS)	7.24	7.22	7.22
Normalized	100%	99.72%	99.72%
Standard Deviation	0.1%		

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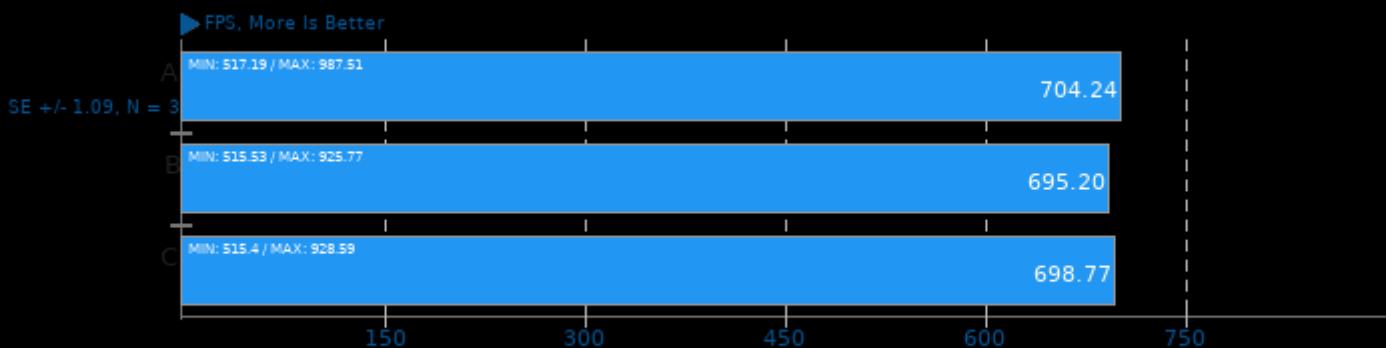
SVT-HEVC - 7 - Bosphorus 1080p (FPS)	113.19	113.36	112.97
Normalized	99.85%	100%	99.66%
Standard Deviation	0.1%		
SVT-HEVC - 10 - Bosphorus 1080p (FPS)	238.86	239.71	239.14
Normalized	99.65%	100%	99.76%
Standard Deviation	0.4%		
SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)	190.49	180.75	179.12
Normalized	100%	94.89%	94.03%
Standard Deviation	2.2%		
SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)	195.21	179.7	195.08
Normalized	100%	92.05%	99.93%
Standard Deviation	0.3%		
SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)	155.23	154.83	155.41
Normalized	99.88%	99.63%	100%
Standard Deviation	0.3%		
VP9 libvpx Encoding - Speed 0 - Bosphorus 4K (FPS)	6.32	6.34	6.35
Normalized	99.53%	99.84%	100%
Standard Deviation	0.5%		
VP9 libvpx Encoding - Speed 5 - Bosphorus 4K (FPS)	15.46	15.43	15.43
Normalized	100%	99.81%	99.81%
Standard Deviation	0.6%		
VP9 libvpx Encoding - Speed 0 - Bosphorus 1080p (FPS)	13.42	13.31	12.94
Normalized	100%	99.18%	96.42%
Standard Deviation	1.2%		
VP9 libvpx Encoding - Speed 5 - Bosphorus 1080p (FPS)	39.79	39.8	40.13
Normalized	99.15%	99.18%	100%
Standard Deviation	0%		
x264 - H.2.V.E (FPS)	88.24	86.04	86.5
Normalized	100%	97.51%	98.03%
Standard Deviation	0.4%		
x265 - Bosphorus 4K (FPS)	15.77	16.08	15.66
Normalized	98.07%	100%	97.39%
Standard Deviation	1%		
x265 - Bosphorus 1080p (FPS)	64.47	62.42	63.19
Normalized	100%	96.82%	98.01%
Standard Deviation	0.4%		
libavif avifenc - 0 (sec)	69.247	69.136	68.842
Normalized	99.42%	99.57%	100%
Standard Deviation	0.1%		
libavif avifenc - 2 (sec)	35.037	34.649	34.826
Normalized	98.89%	100%	99.49%
Standard Deviation	0.6%		
libavif avifenc - 6 (sec)	12.343	12.399	12.279
Normalized	99.48%	99.03%	100%
Standard Deviation	0.4%		
libavif avifenc - 10 (sec)	3.092	3.098	3.098
Normalized	100%	99.81%	99.81%
Standard Deviation	0.1%		
libavif avifenc - 6, Lossless (sec)	65.575	65.335	65.51

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	Normalized	99.63%	100%	99.73%
	Standard Deviation	0.2%		
libavif avifenc - 10, Lossless (sec)	5.524	5.466	5.523	
	Normalized	98.95%	100%	98.97%
	Standard Deviation	0.3%		
FFmpeg - H.2.H.T.N.D (sec)	3.652	3.836	3.801	
	Normalized	100%	95.2%	96.08%
	Standard Deviation	1.9%		

dav1d 0.9.2

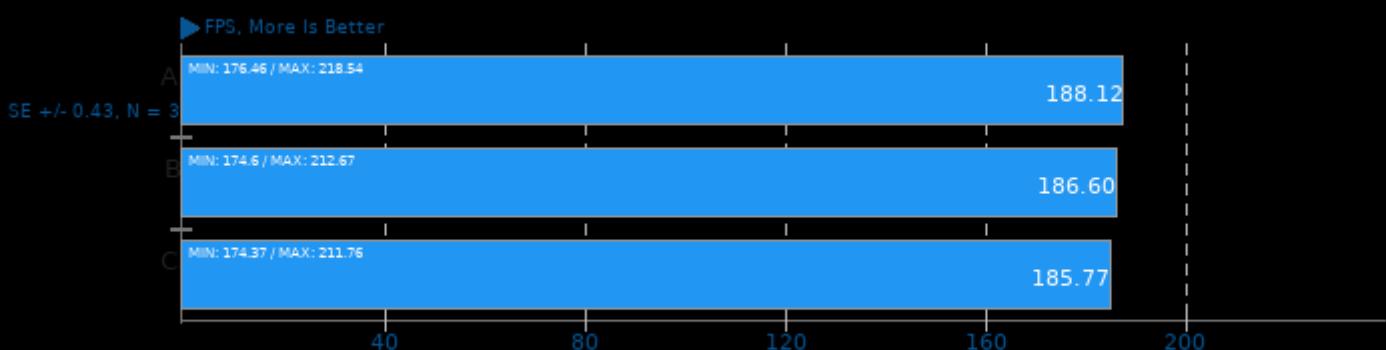
Video Input: Chimera 1080p



1. (CC) gcc options: -pthread -lm

dav1d 0.9.2

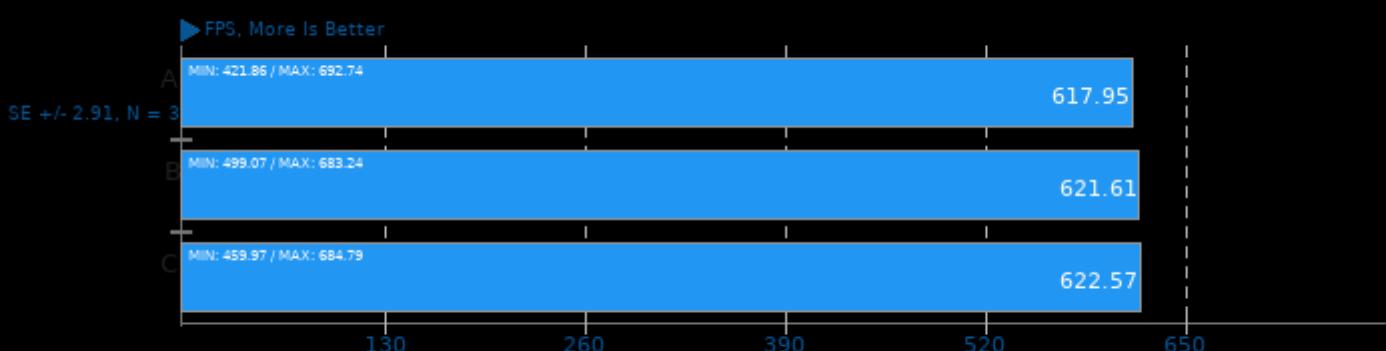
Video Input: Summer Nature 4K



1. (CC) gcc options: -pthread -lm

dav1d 0.9.2

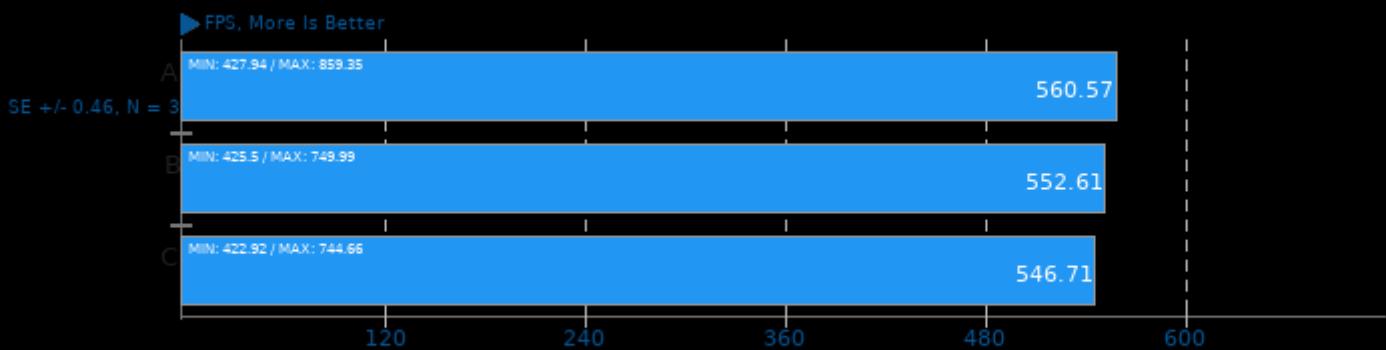
Video Input: Summer Nature 1080p



1. (CC) gcc options: -pthread -lm

dav1d 0.9.2

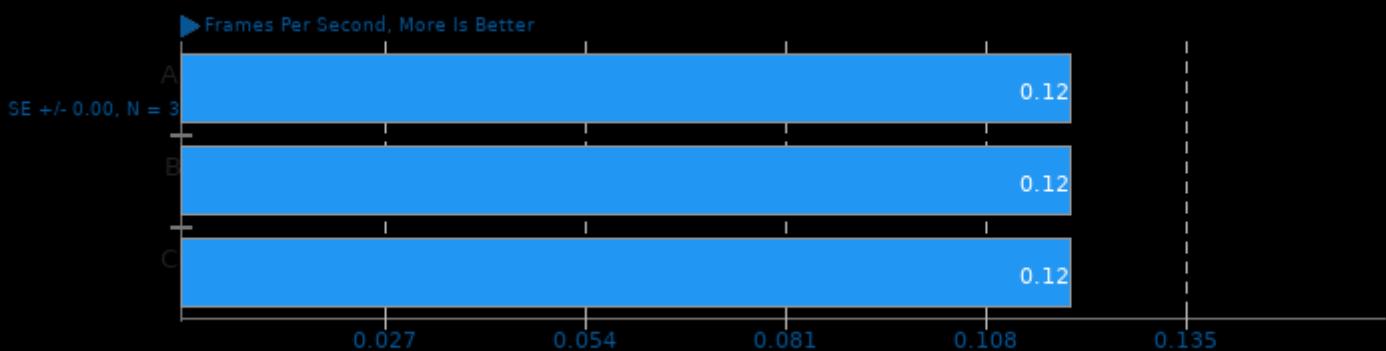
Video Input: Chimera 1080p 10-bit



1. (CC) gcc options: -pthread -lm

AOM AV1 3.2

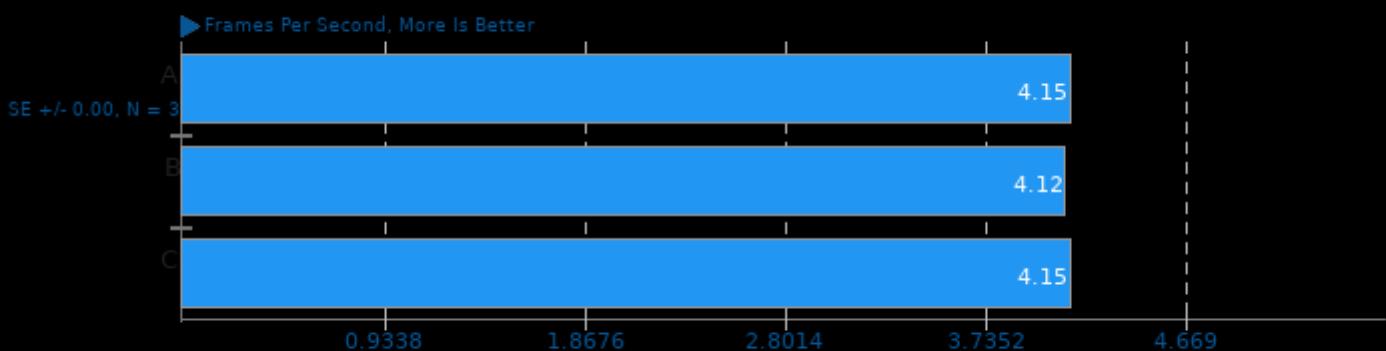
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.2

Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K

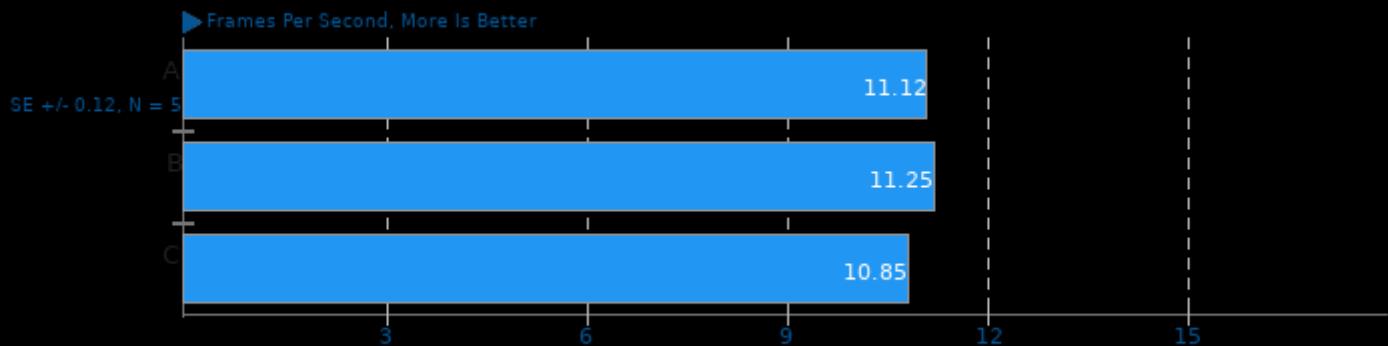


1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

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AOM AV1 3.2

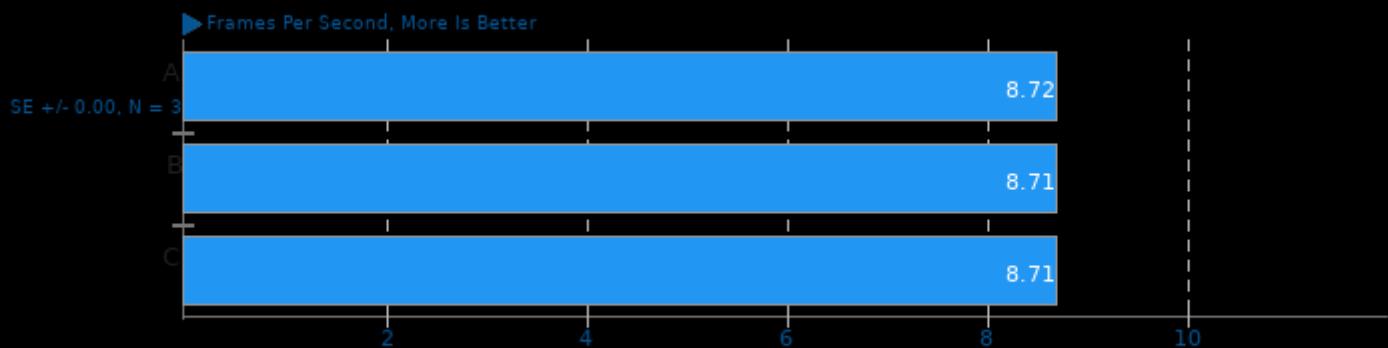
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

AOM AV1 3.2

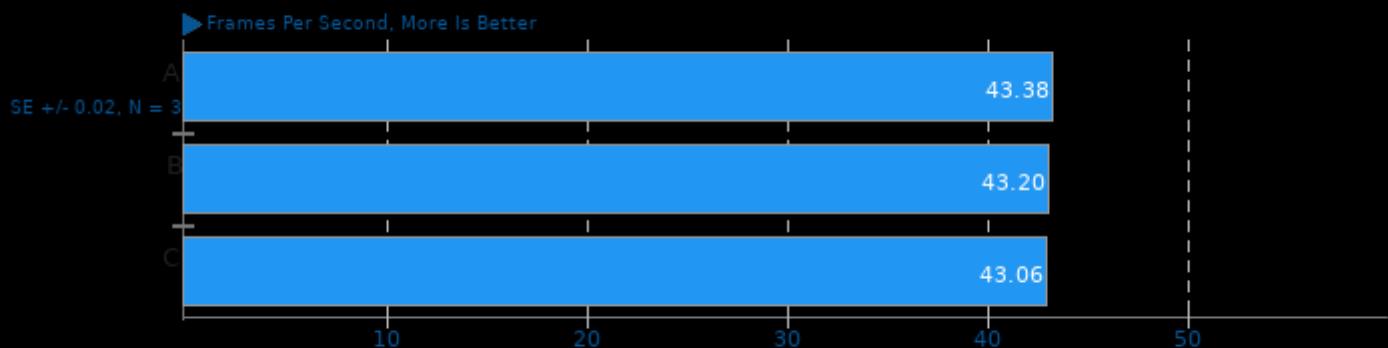
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

AOM AV1 3.2

Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K

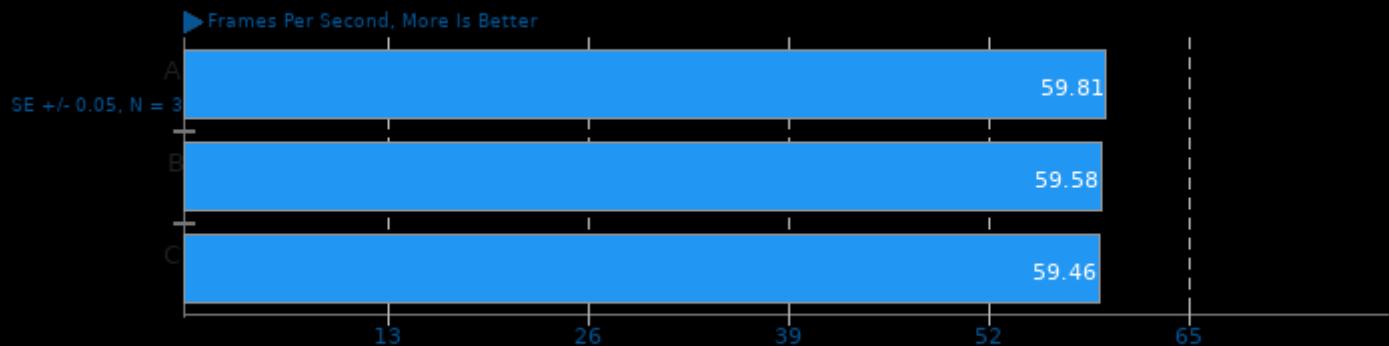


1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

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AOM AV1 3.2

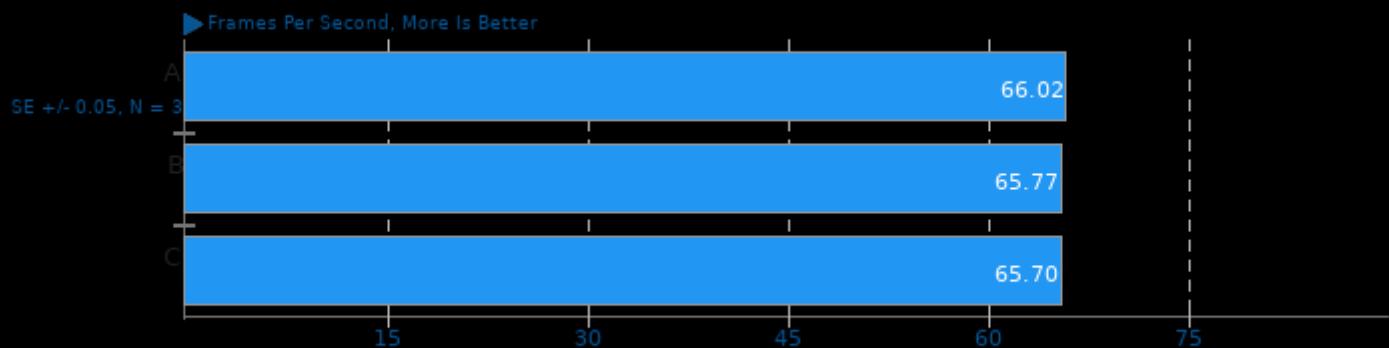
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

AOM AV1 3.2

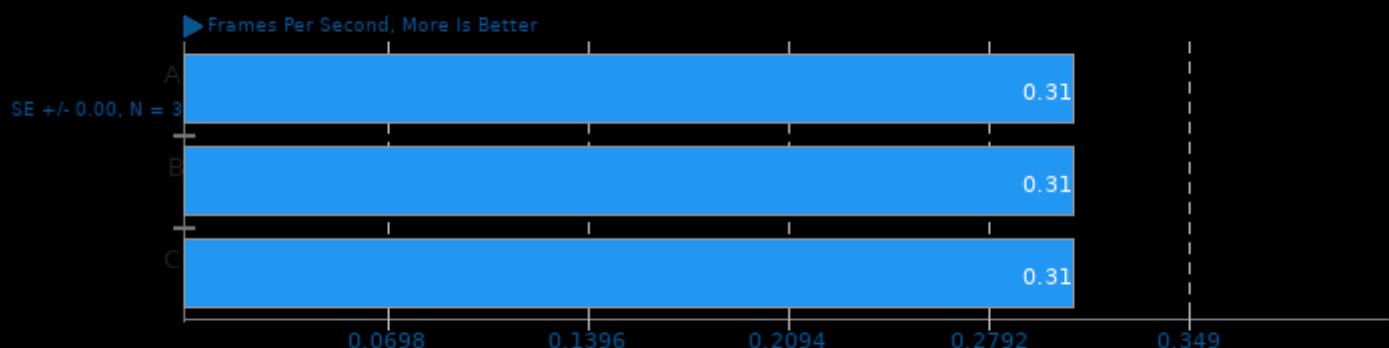
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

AOM AV1 3.2

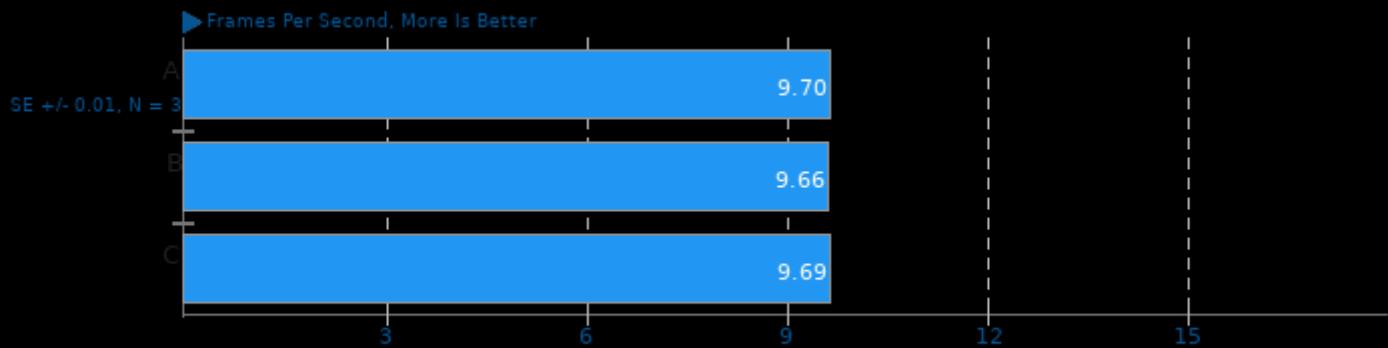
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

AOM AV1 3.2

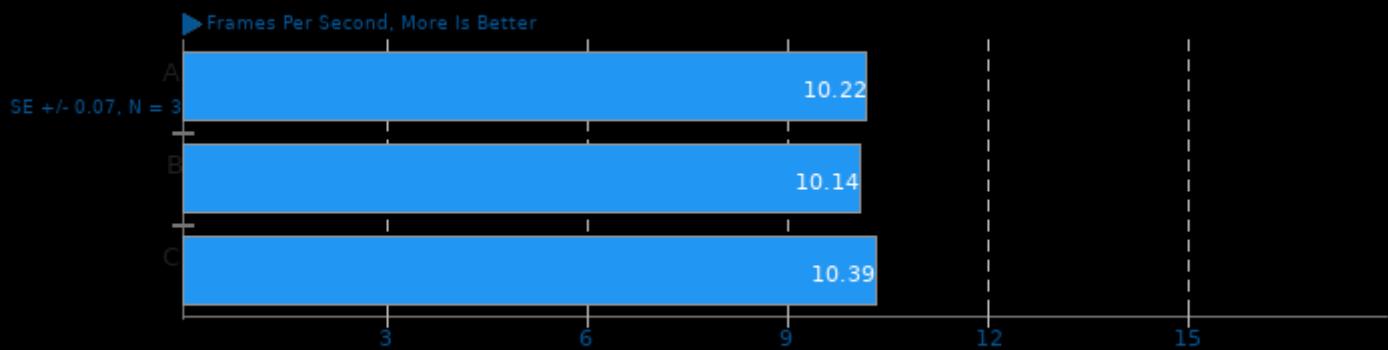
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

AOM AV1 3.2

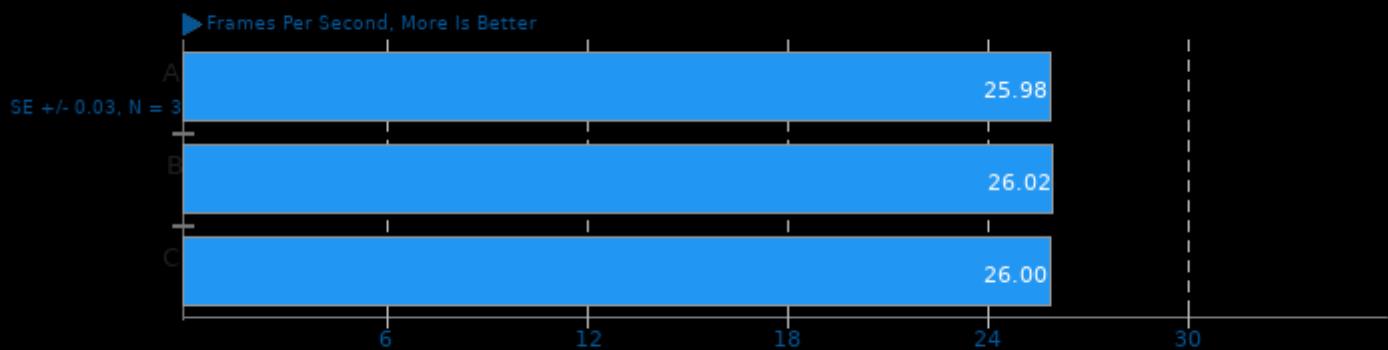
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

AOM AV1 3.2

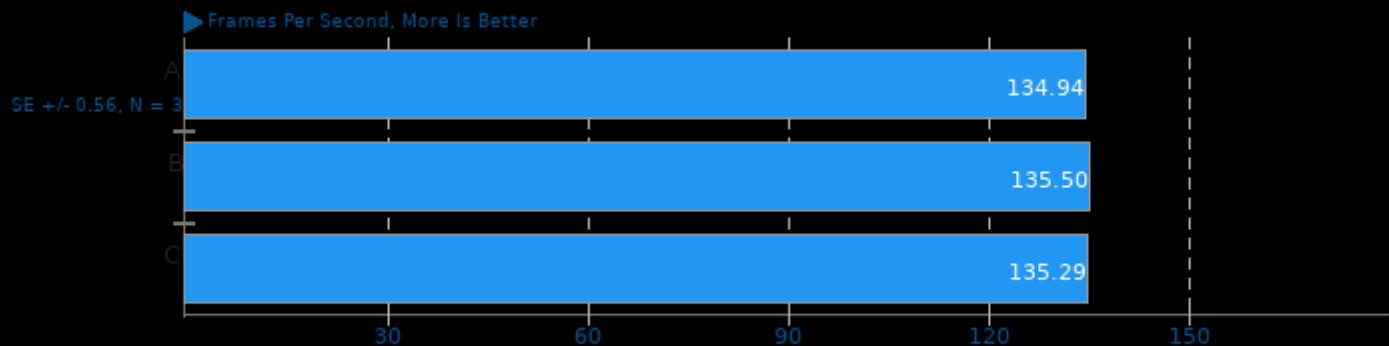
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

AOM AV1 3.2

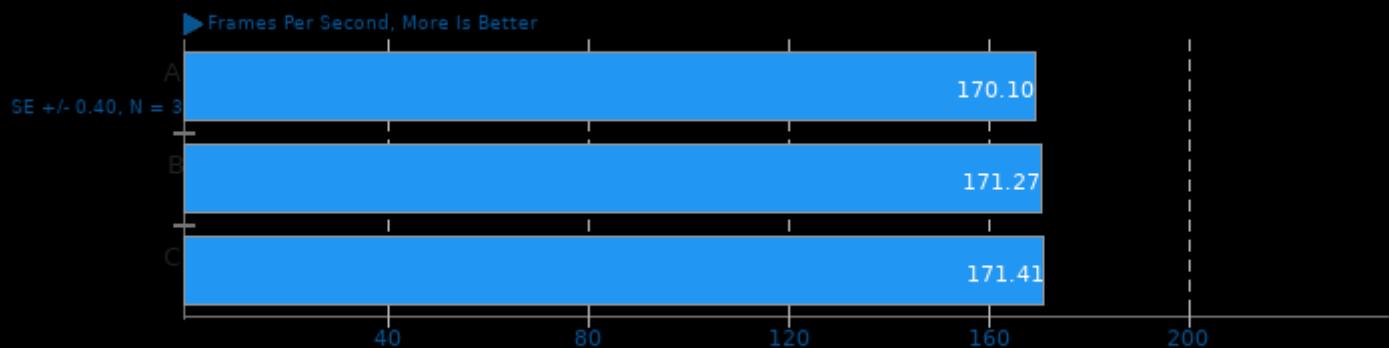
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

AOM AV1 3.2

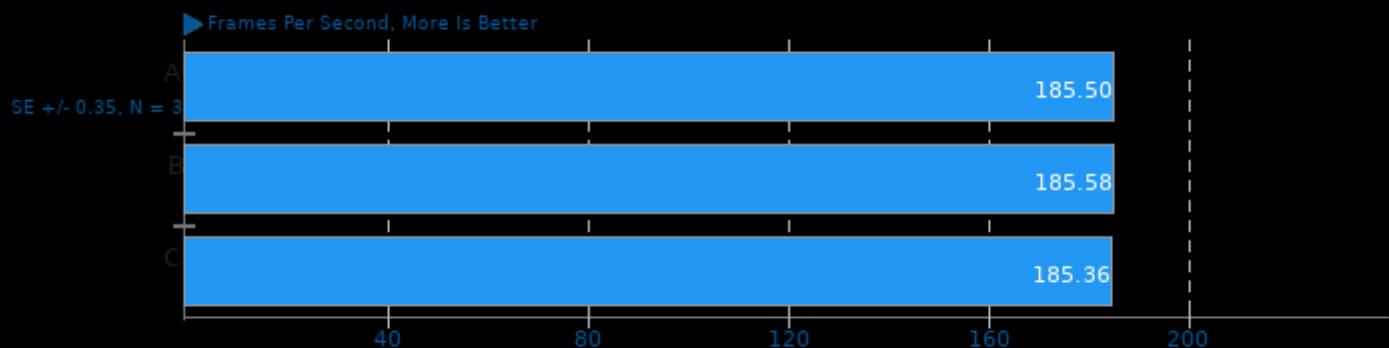
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

AOM AV1 3.2

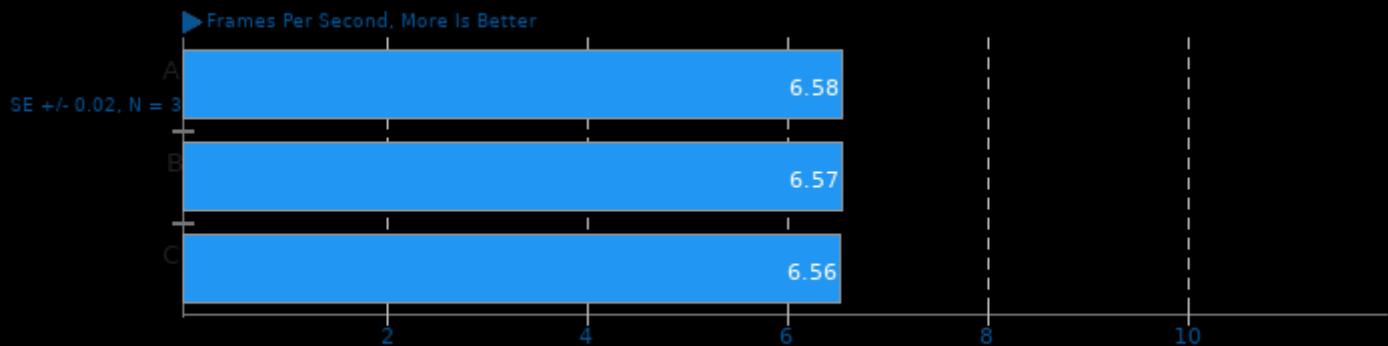
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-omit-frame-pointer

Kvazaar 2.1

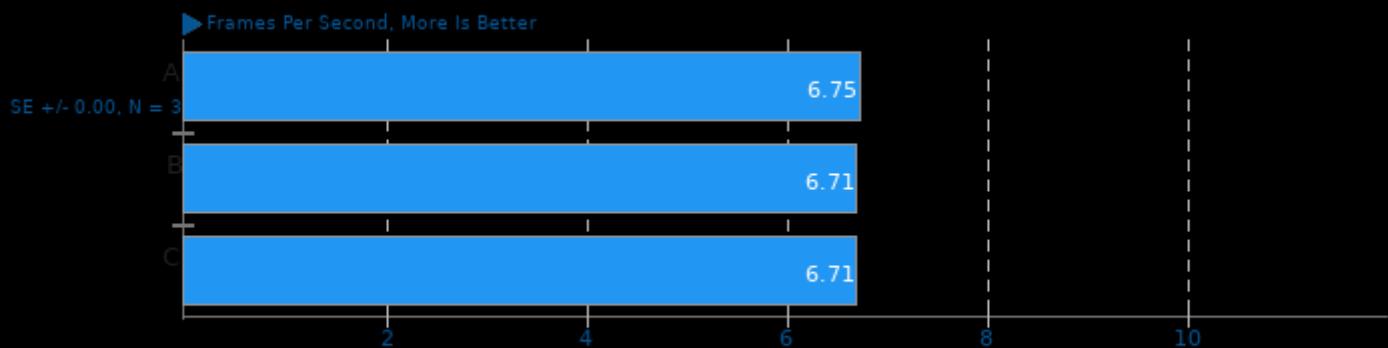
Video Input: Bosphorus 4K - Video Preset: Slow



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

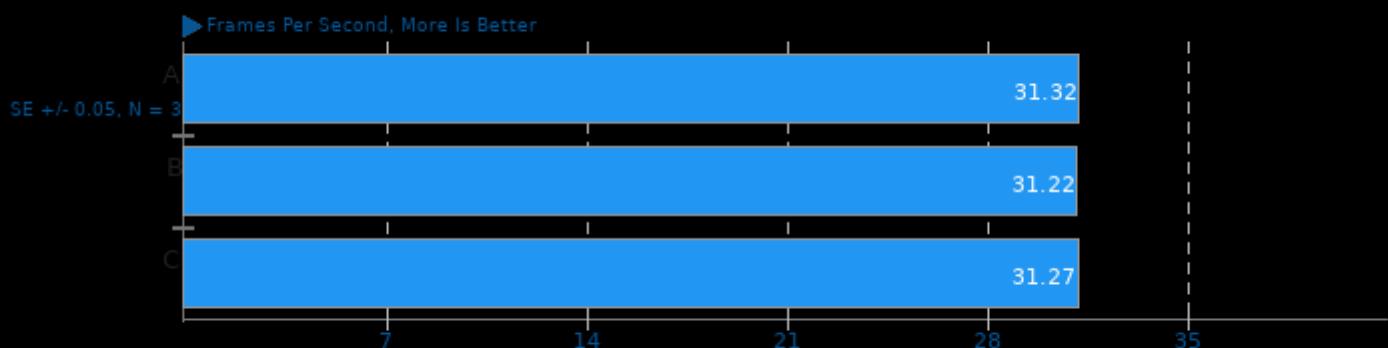
Video Input: Bosphorus 4K - Video Preset: Medium



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

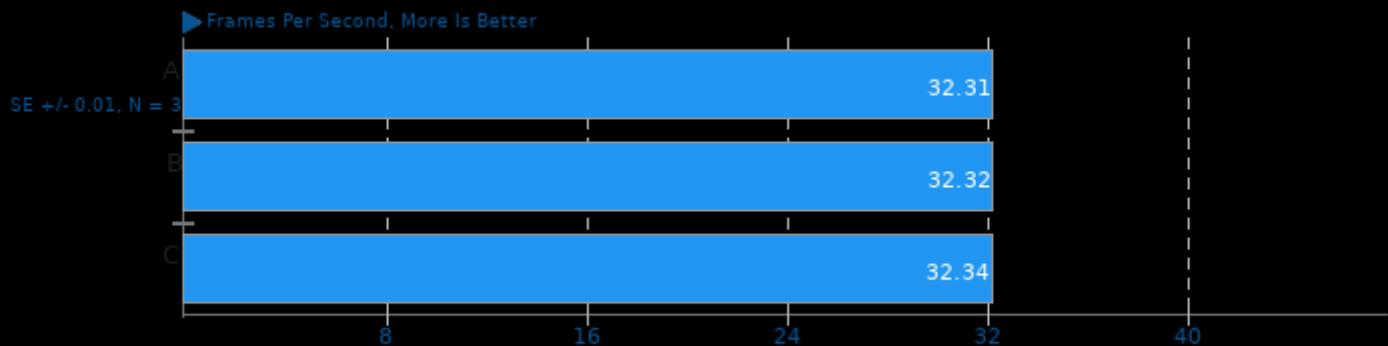
Video Input: Bosphorus 1080p - Video Preset: Slow



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

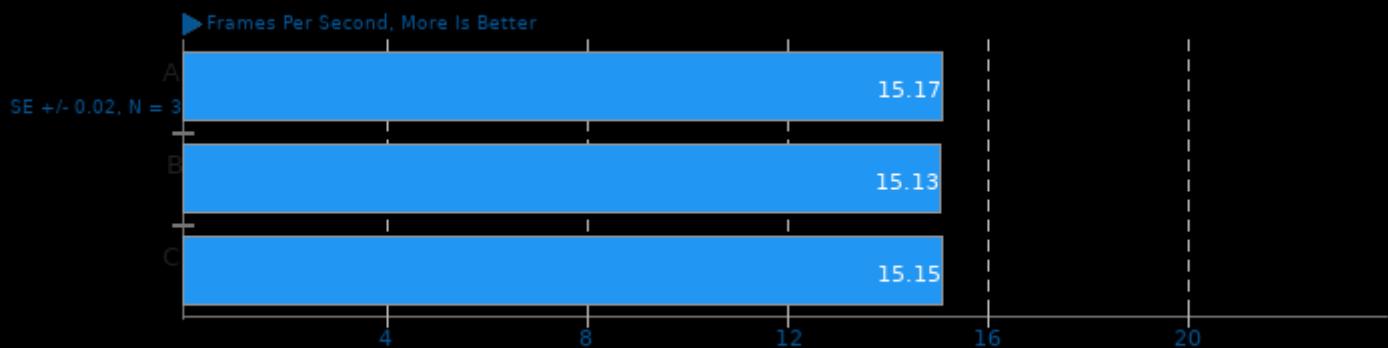
Video Input: Bosphorus 1080p - Video Preset: Medium



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

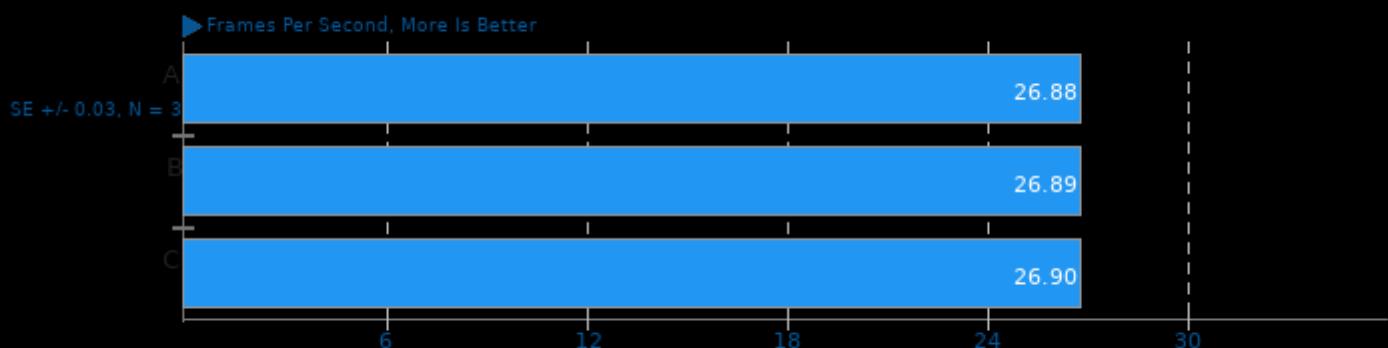
Video Input: Bosphorus 4K - Video Preset: Very Fast



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

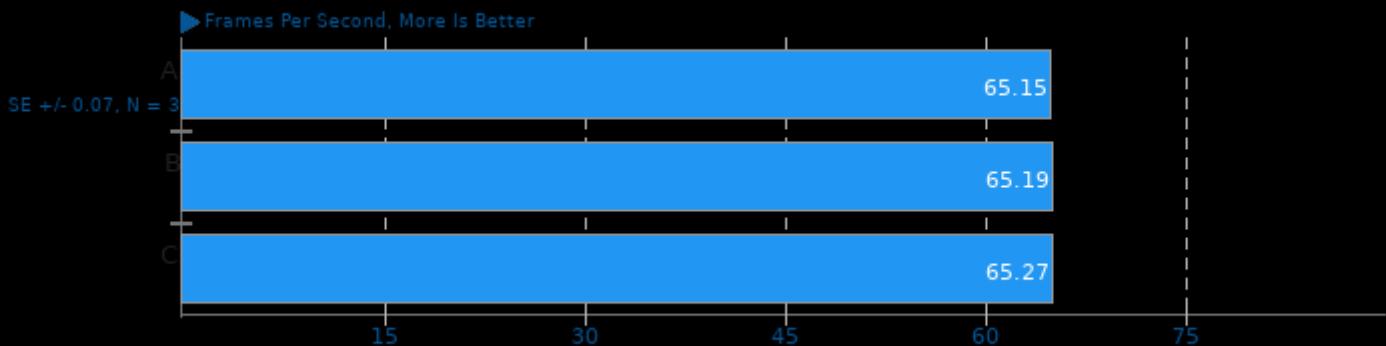
Video Input: Bosphorus 4K - Video Preset: Ultra Fast



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

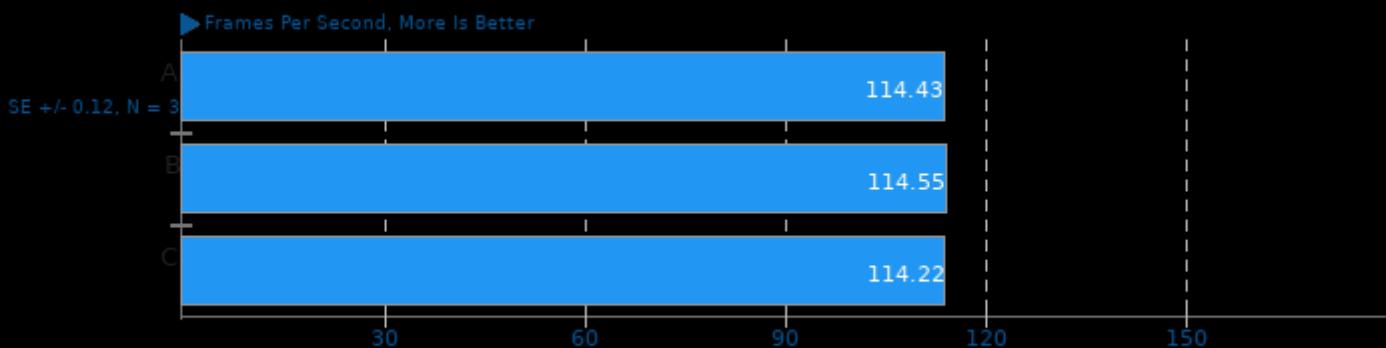
Video Input: Bosphorus 1080p - Video Preset: Very Fast



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

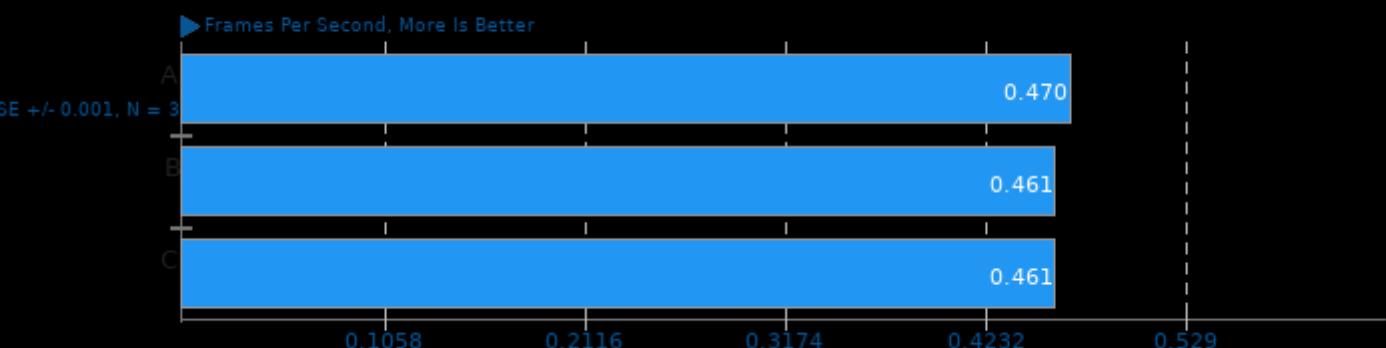
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

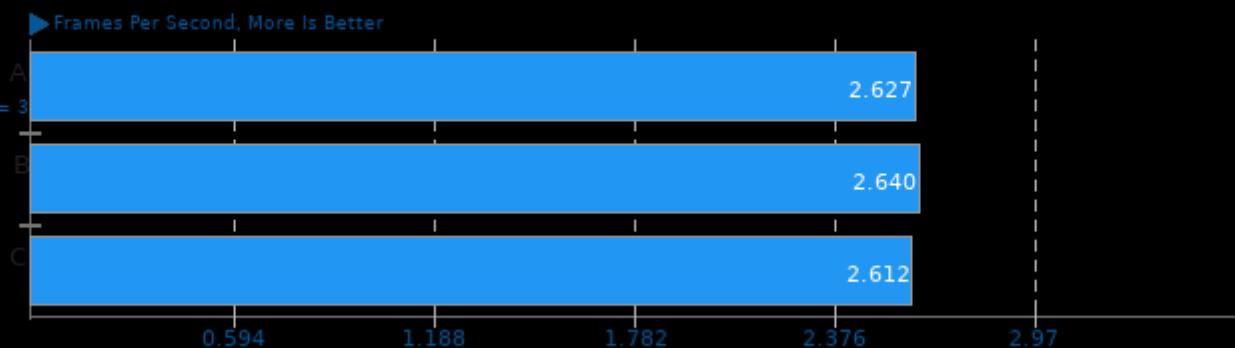
rav1e 0.5

Speed: 1

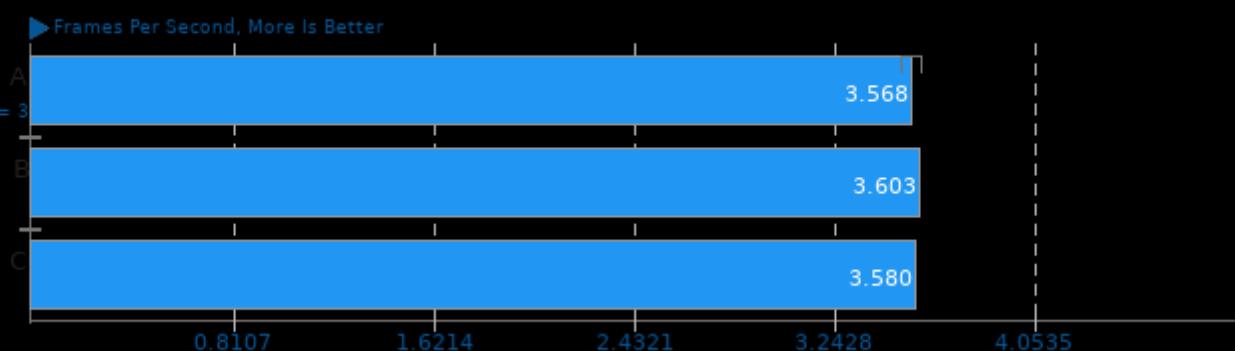


rav1e 0.5

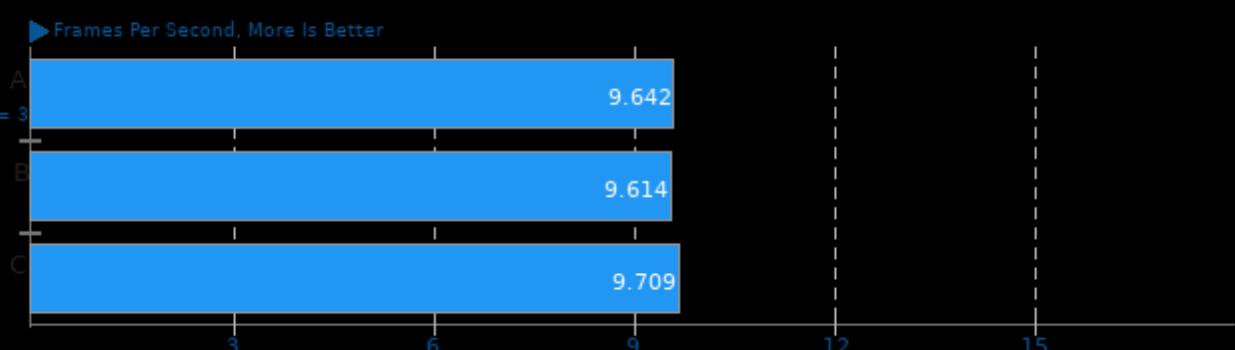
Speed: 5

**rav1e 0.5**

Speed: 6

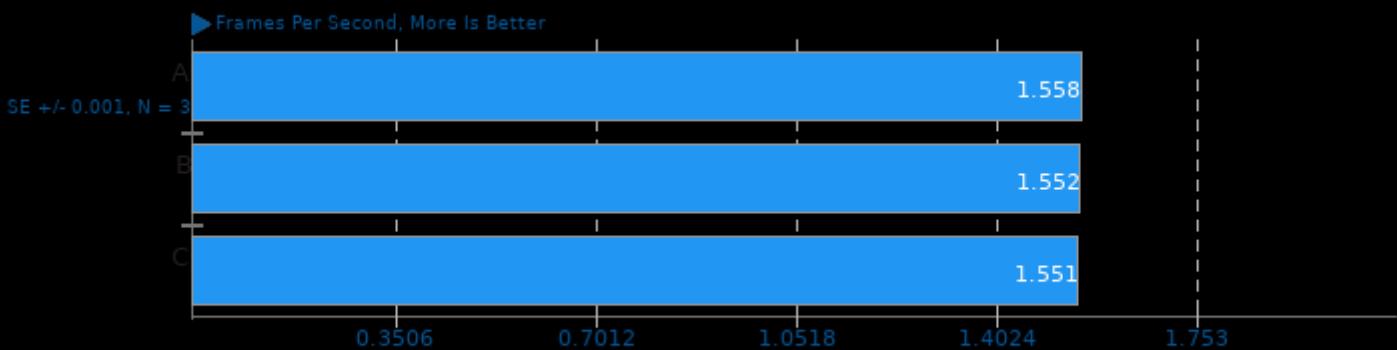
**rav1e 0.5**

Speed: 10



SVT-AV1 0.8.7

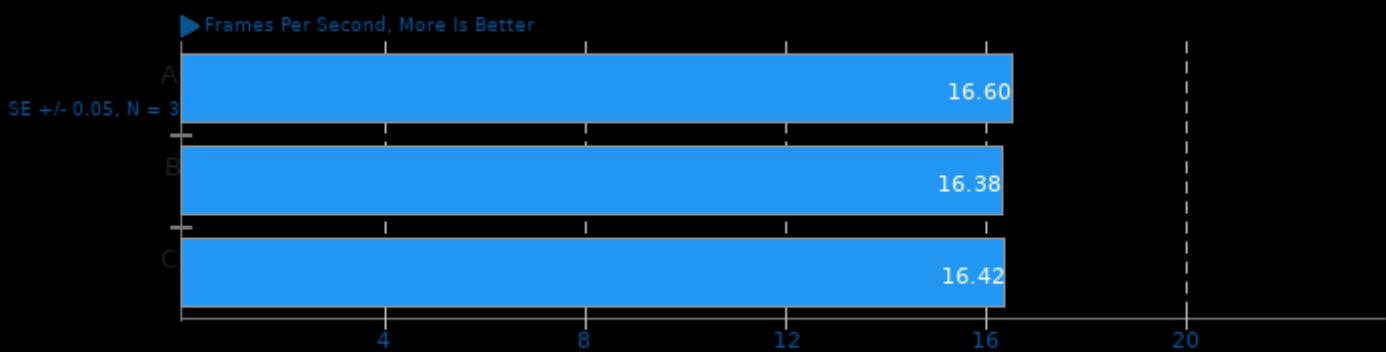
Encoder Mode: Preset 4 - Input: Bosphorus 4K



1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

SVT-AV1 0.8.7

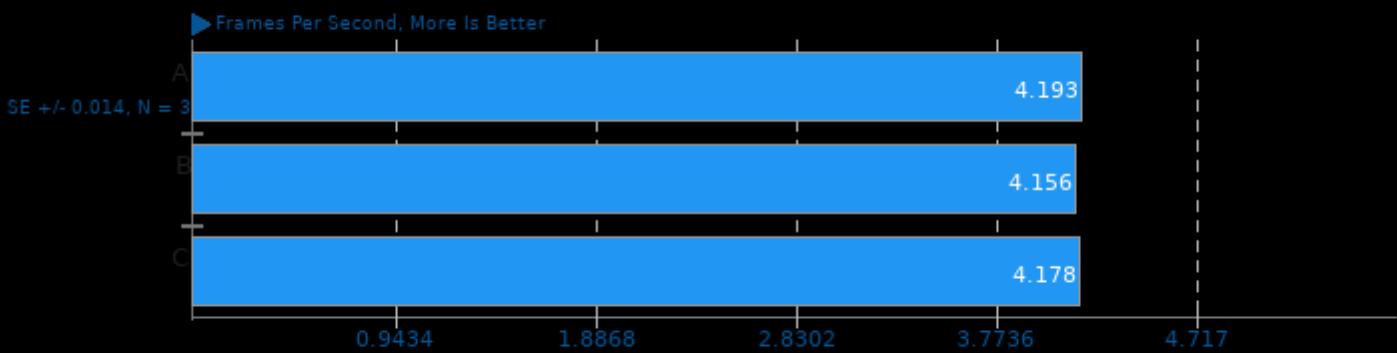
Encoder Mode: Preset 8 - Input: Bosphorus 4K



1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

SVT-AV1 0.8.7

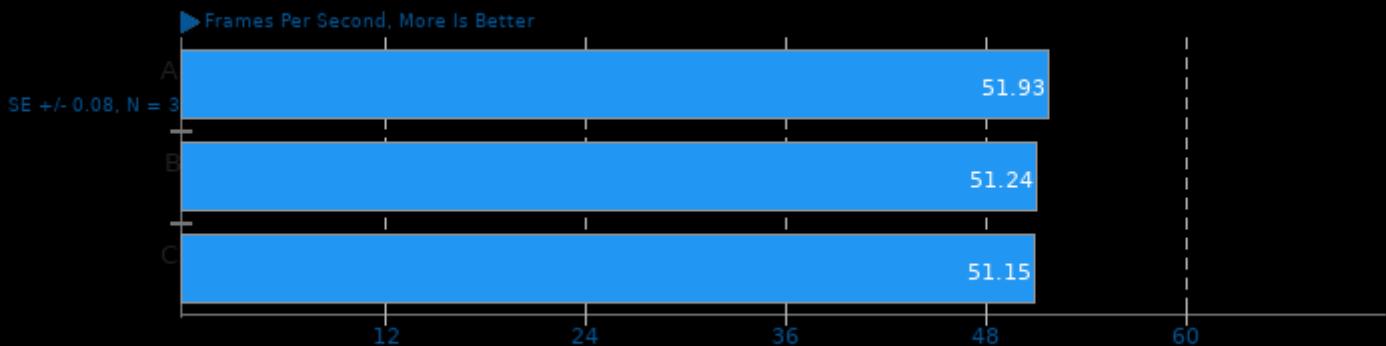
Encoder Mode: Preset 4 - Input: Bosphorus 1080p



1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

SVT-AV1 0.8.7

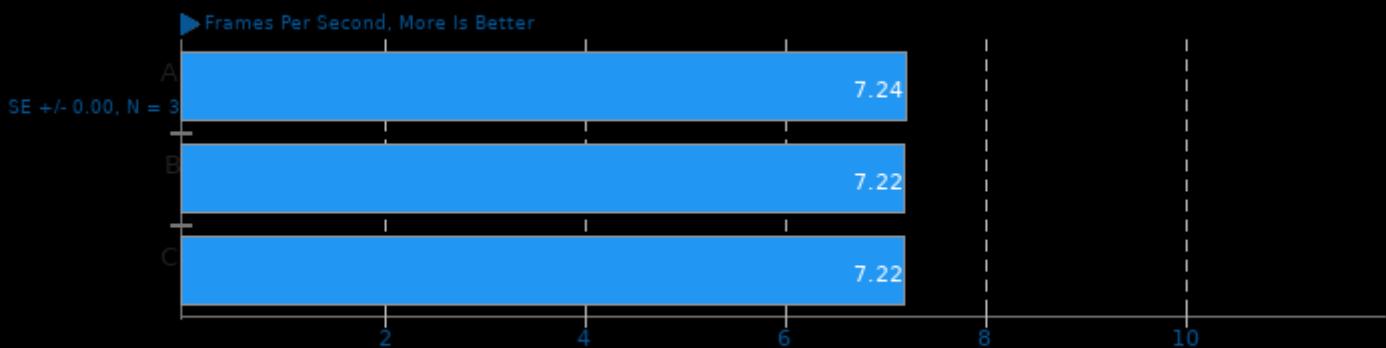
Encoder Mode: Preset 8 - Input: Bosphorus 1080p



1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

SVT-HEVC 1.5.0

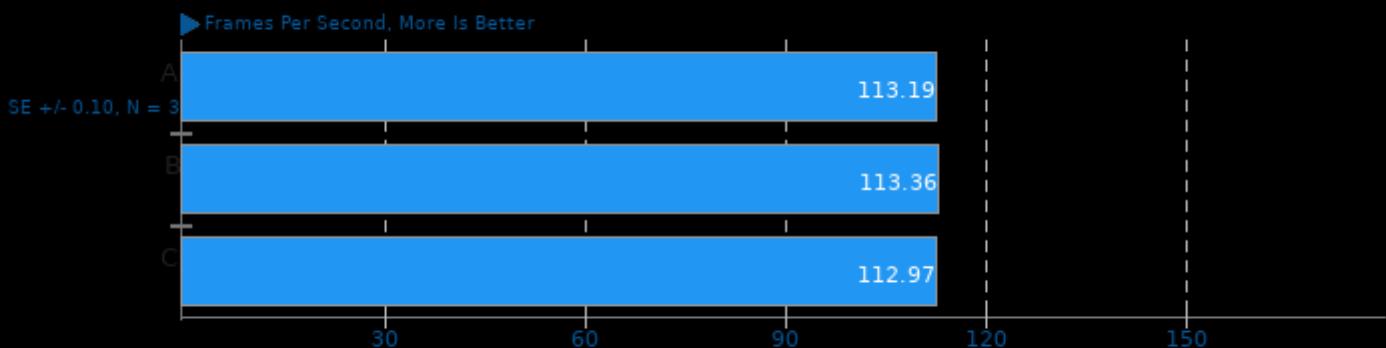
Tuning: 1 - Input: Bosphorus 1080p



1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

SVT-HEVC 1.5.0

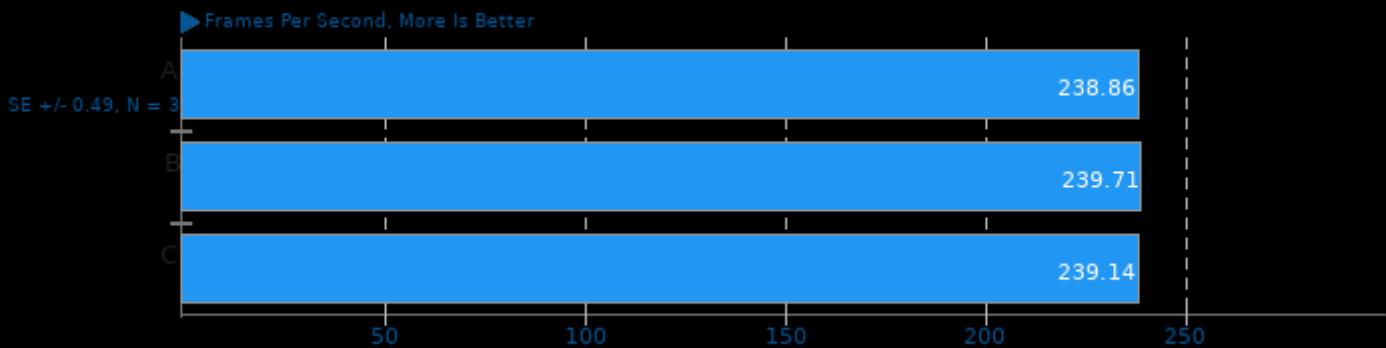
Tuning: 7 - Input: Bosphorus 1080p



1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

SVT-HEVC 1.5.0

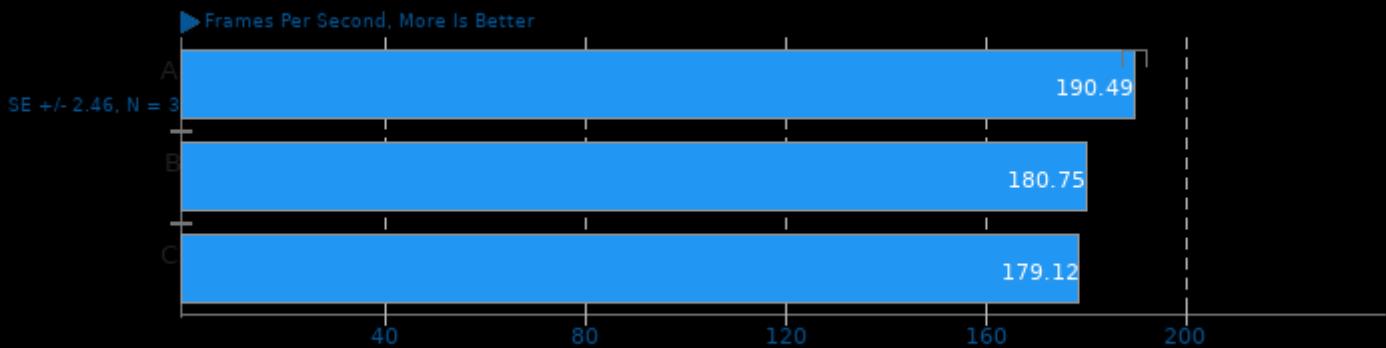
Tuning: 10 - Input: Bosphorus 1080p



1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

SVT-VP9 0.3

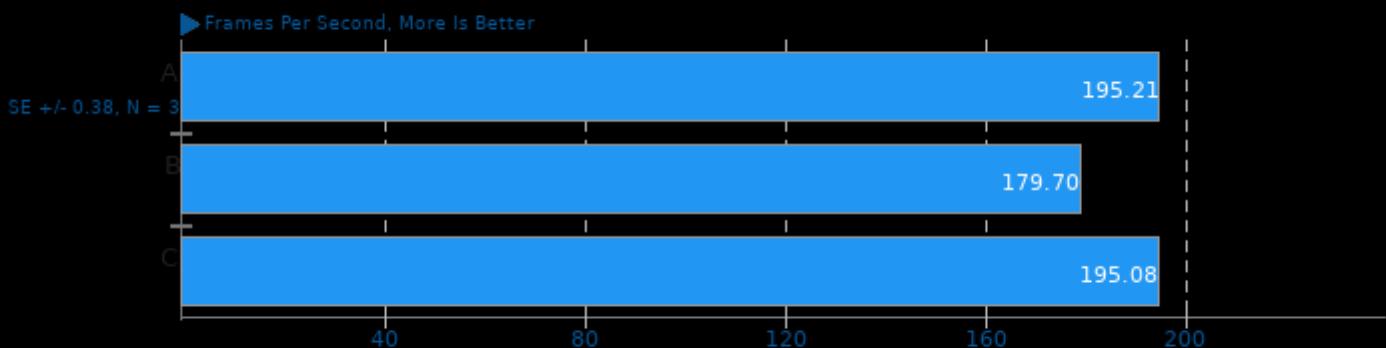
Tuning: VMAF Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

SVT-VP9 0.3

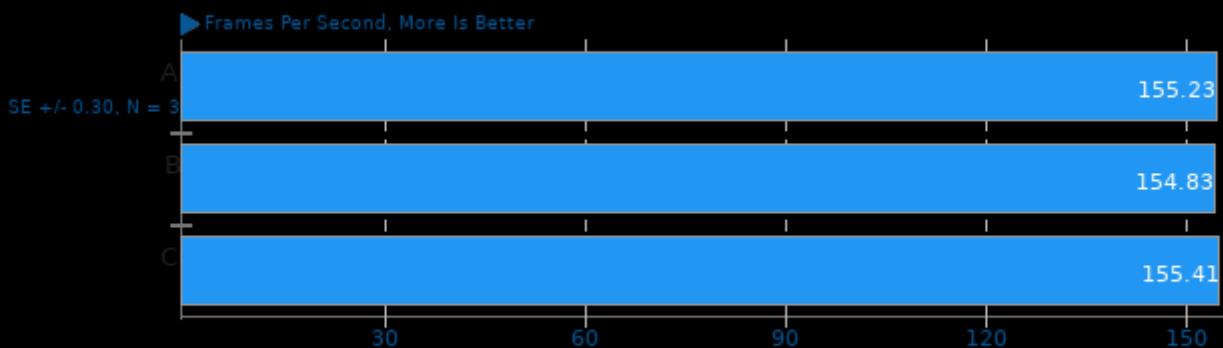
Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

SVT-VP9 0.3

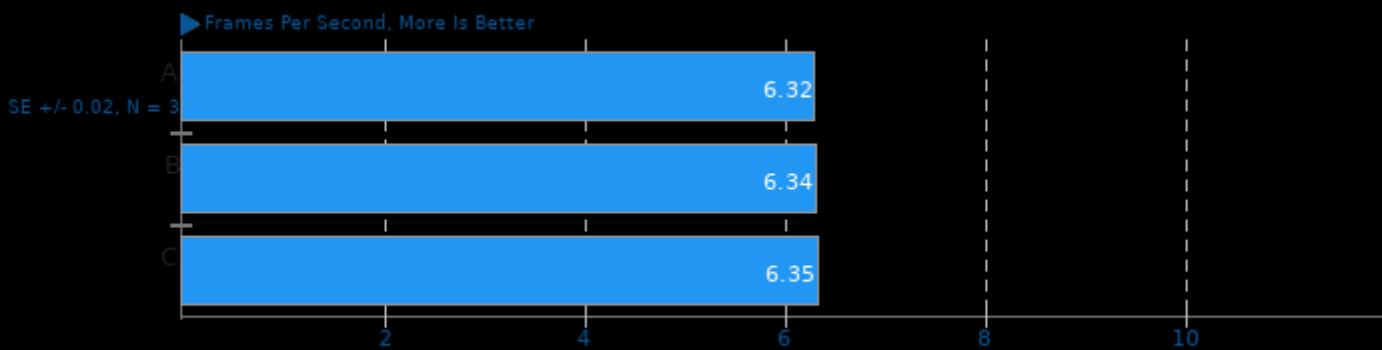
Tuning: Visual Quality Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

VP9 libvpx Encoding 1.10.0

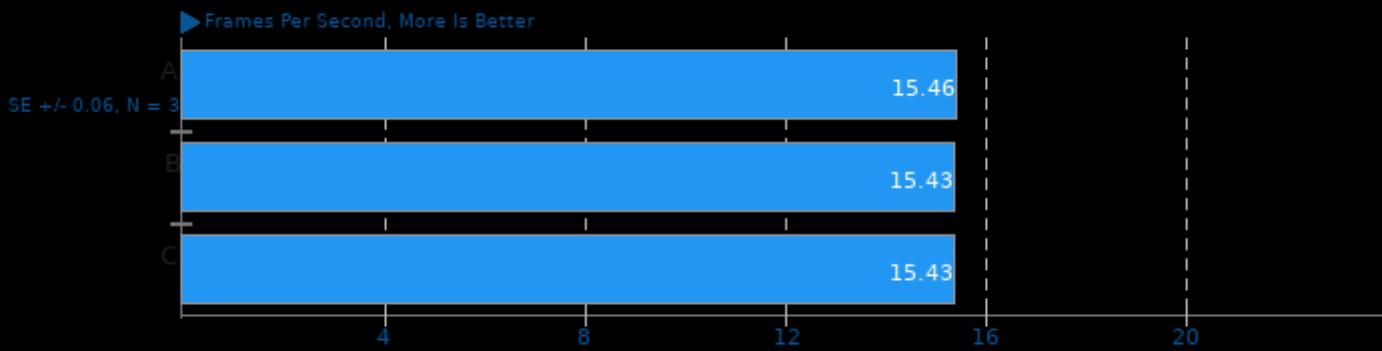
Speed: Speed 0 - Input: Bosphorus 4K



1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

VP9 libvpx Encoding 1.10.0

Speed: Speed 5 - Input: Bosphorus 4K

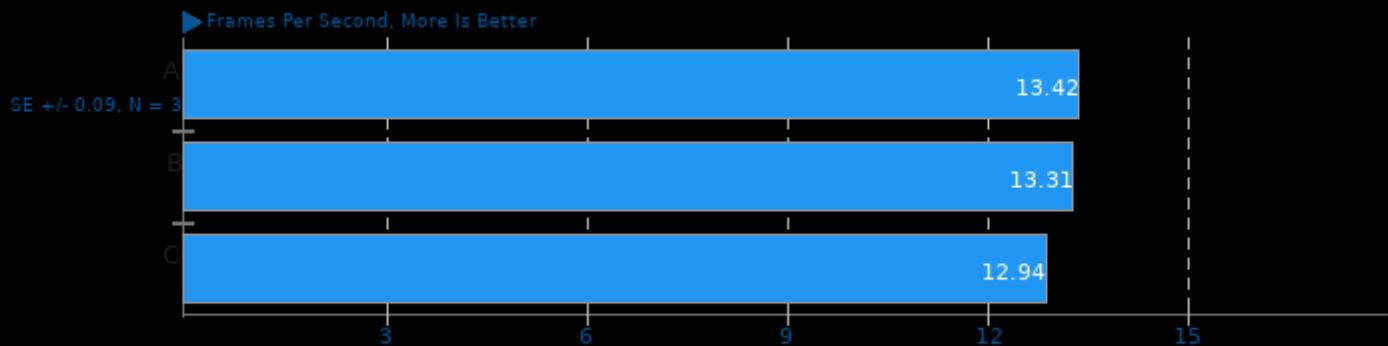


1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

Core i5 12400 Video Encoding

VP9 libvpx Encoding 1.10.0

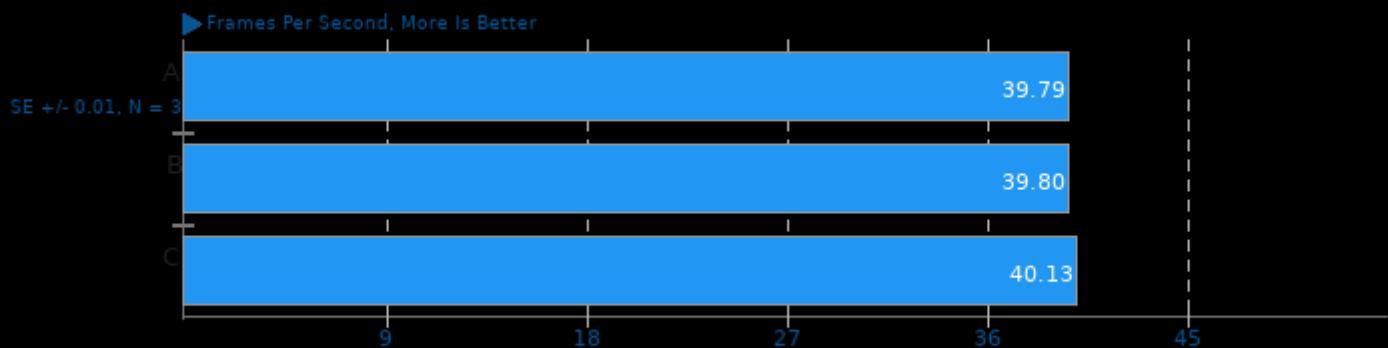
Speed: Speed 0 - Input: Bosphorus 1080p



1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

VP9 libvpx Encoding 1.10.0

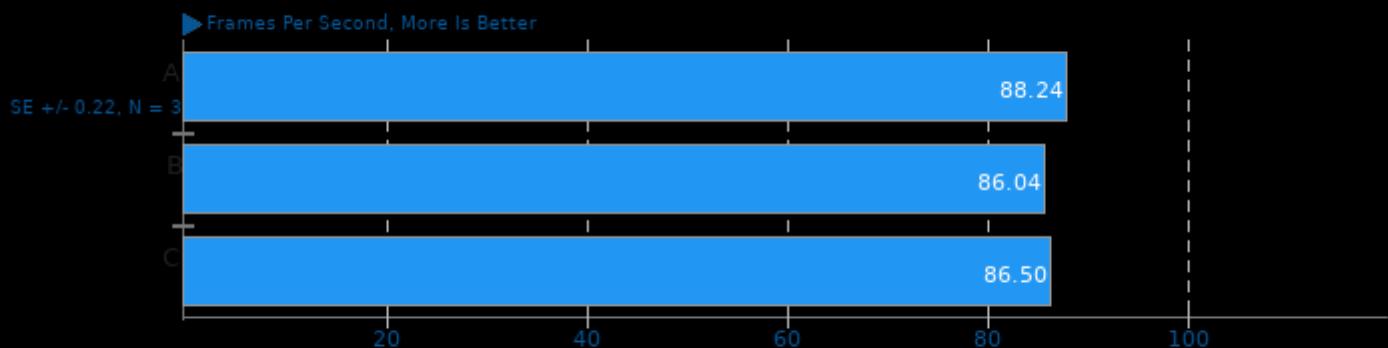
Speed: Speed 5 - Input: Bosphorus 1080p



1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

x264 2019-12-17

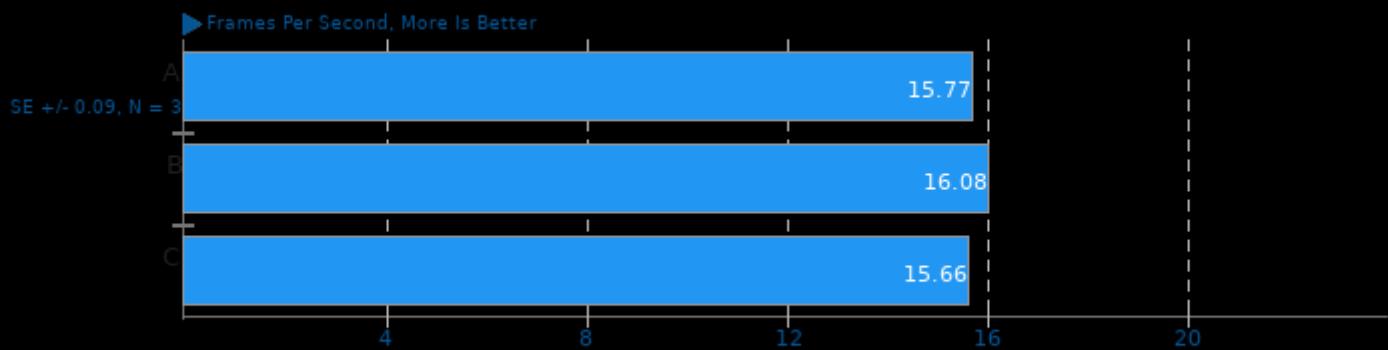
H.264 Video Encoding



1. (CC) gcc options: -ldl -lavformat -lavcodec -lavutil -lswscale -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectorize

x265 3.4

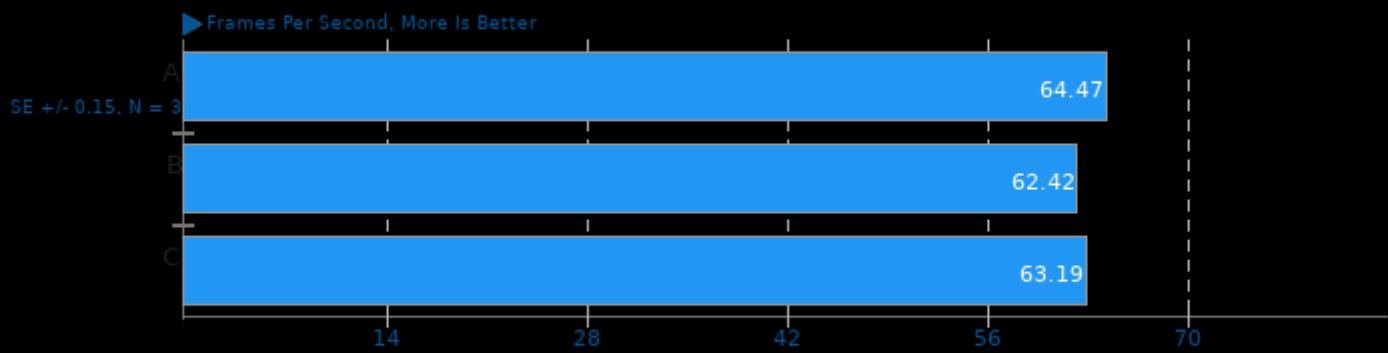
Video Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl -lnuma

x265 3.4

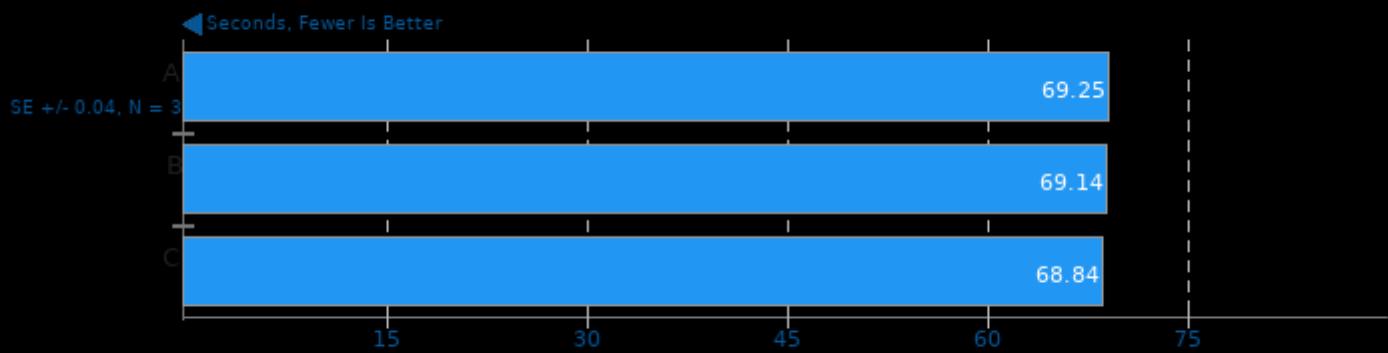
Video Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl -lnuma

libavif avifenc 0.9.0

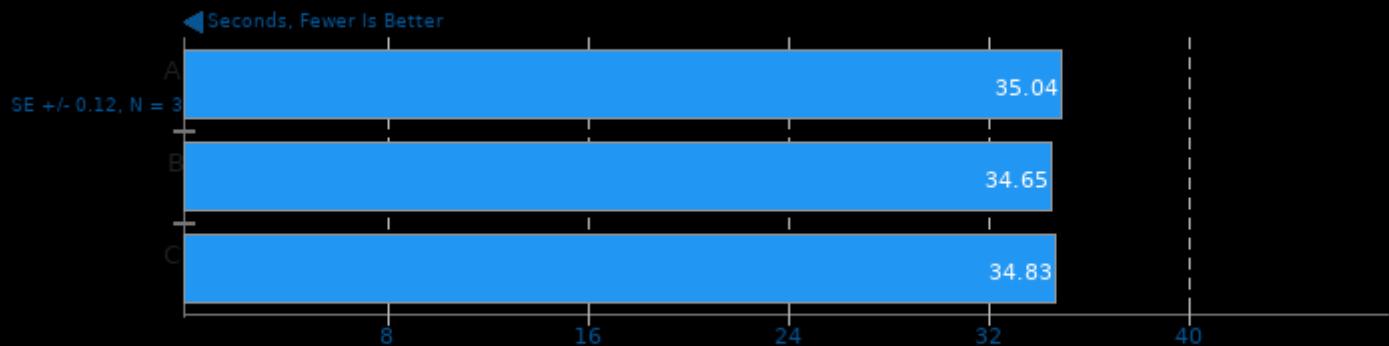
Encoder Speed: 0



1. (CXX) g++ options: -O3 -fPIC -lm

libavif avifenc 0.9.0

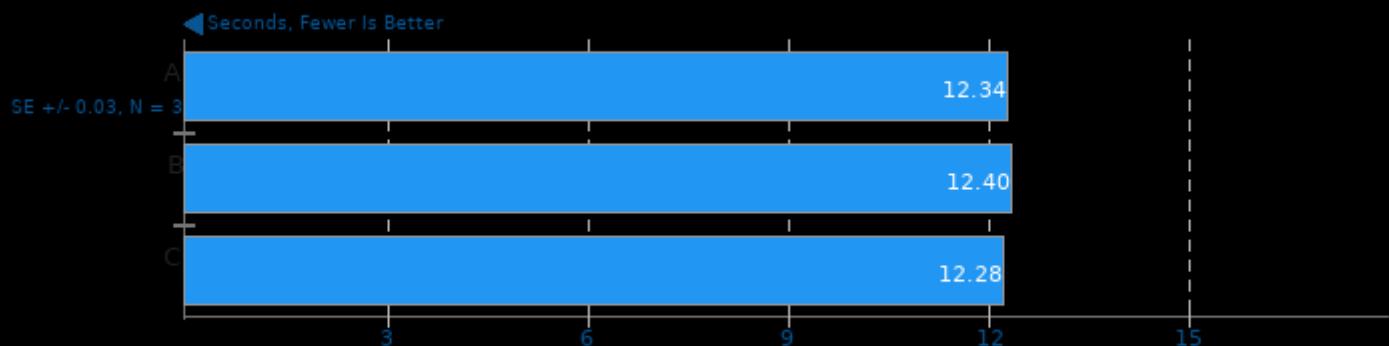
Encoder Speed: 2



1. (CXX) g++ options: -O3 -fPIC -lm

libavif avifenc 0.9.0

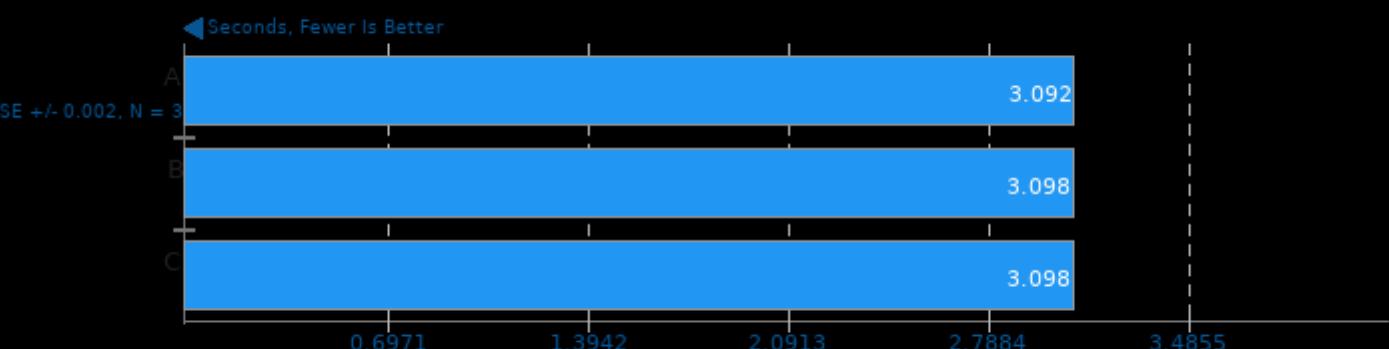
Encoder Speed: 6



1. (CXX) g++ options: -O3 -fPIC -lm

libavif avifenc 0.9.0

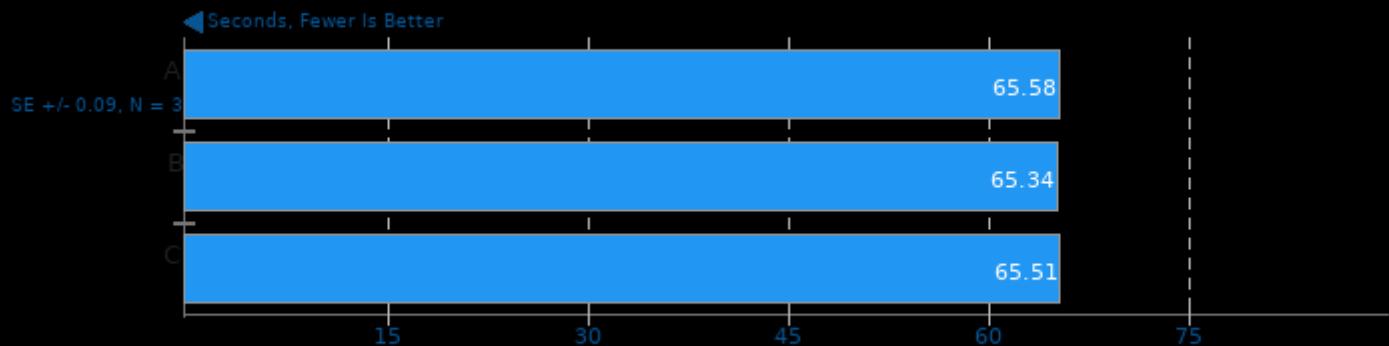
Encoder Speed: 10



1. (CXX) g++ options: -O3 -fPIC -lm

libavif avifenc 0.9.0

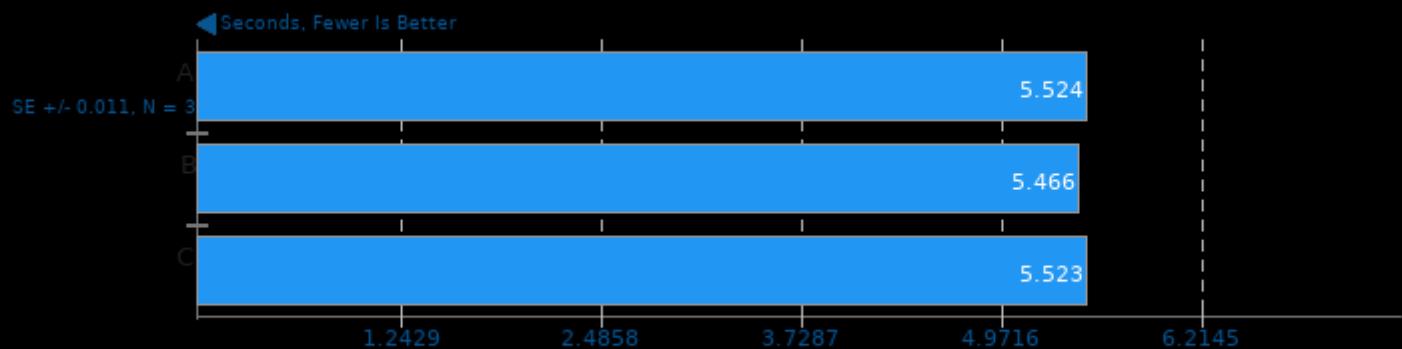
Encoder Speed: 6, Lossless



1. (CXX) g++ options: -O3 -fPIC -lm

libavif avifenc 0.9.0

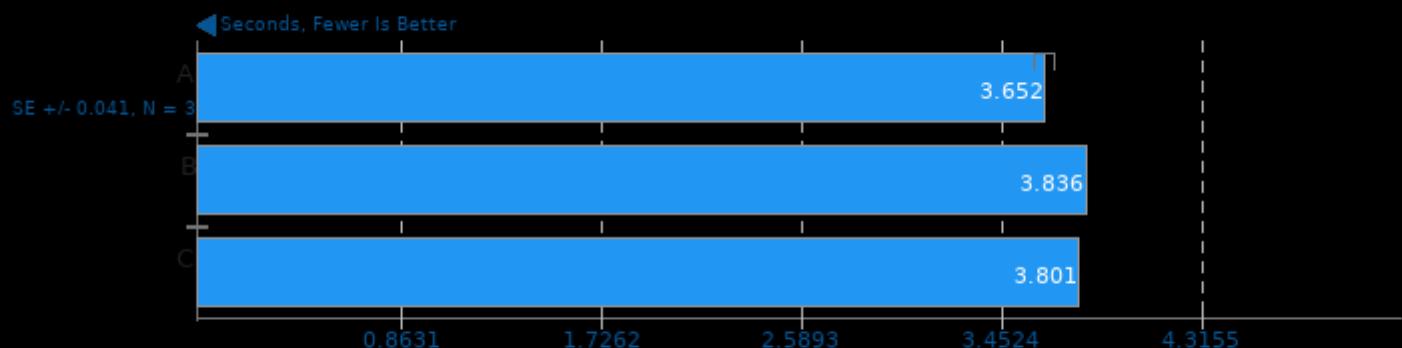
Encoder Speed: 10, Lossless



1. (CXX) g++ options: -O3 -fPIC -lm

FFmpeg 4.0.2

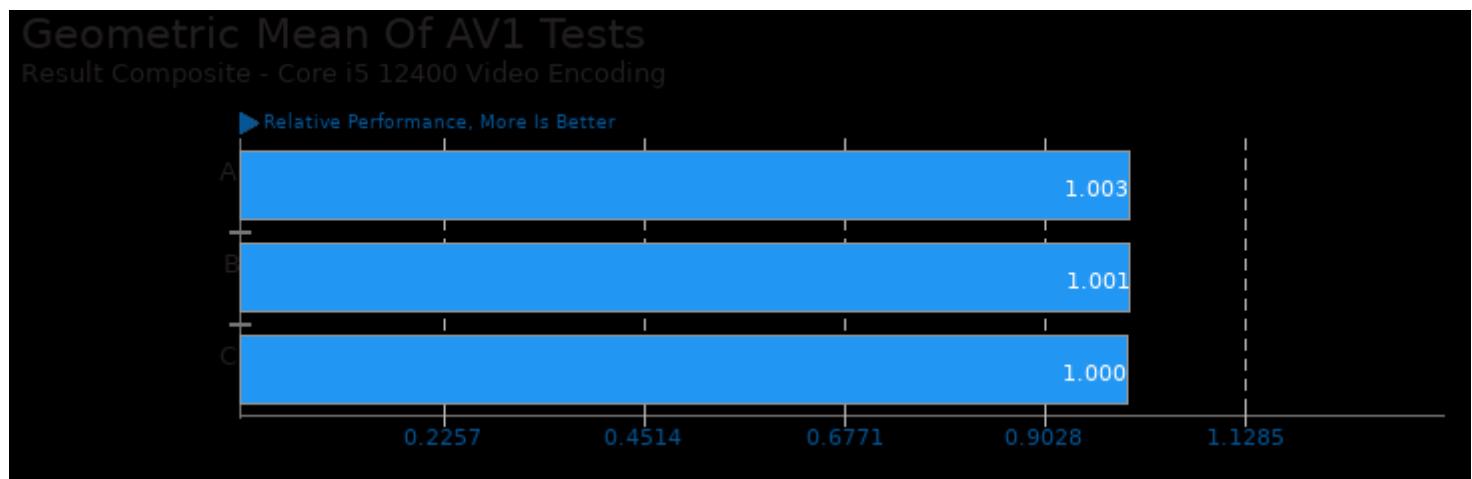
H.264 HD To NTSC DV



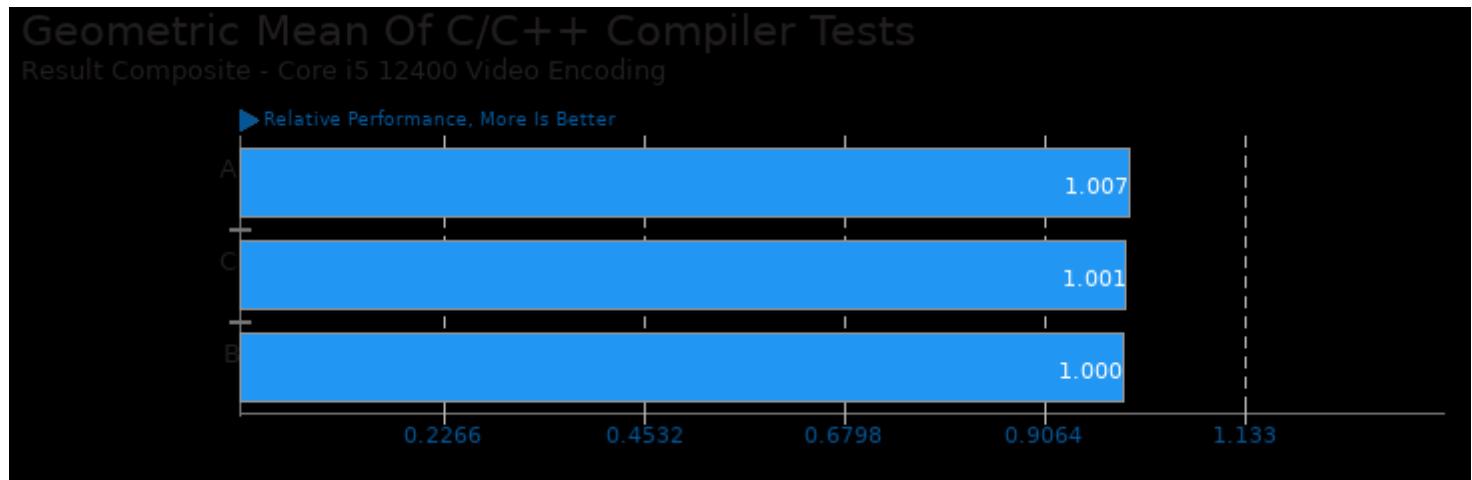
1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lXv -lX11 -lXext -lm -lxcb -lasound -lSDL2 -lstdc++ -pthread -lv

Core i5 12400 Video Encoding

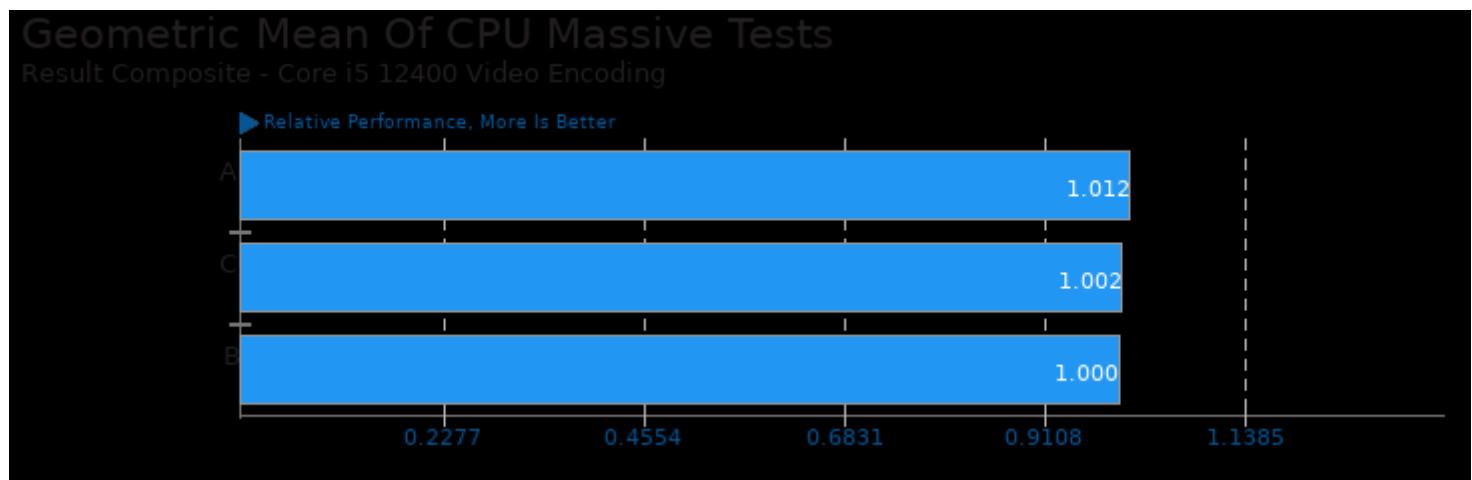
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/dav1d, pts/aom-av1, pts/svt-av1, pts/libgav1, pts/rav1e and pts/avifenc



Geometric mean based upon tests: pts/vpxenc, pts/libgav1, pts/dav1d, pts/x264, pts/x265, pts/kvazaar, pts/aom-av1, pts/svt-av1 and pts/svt-vp9

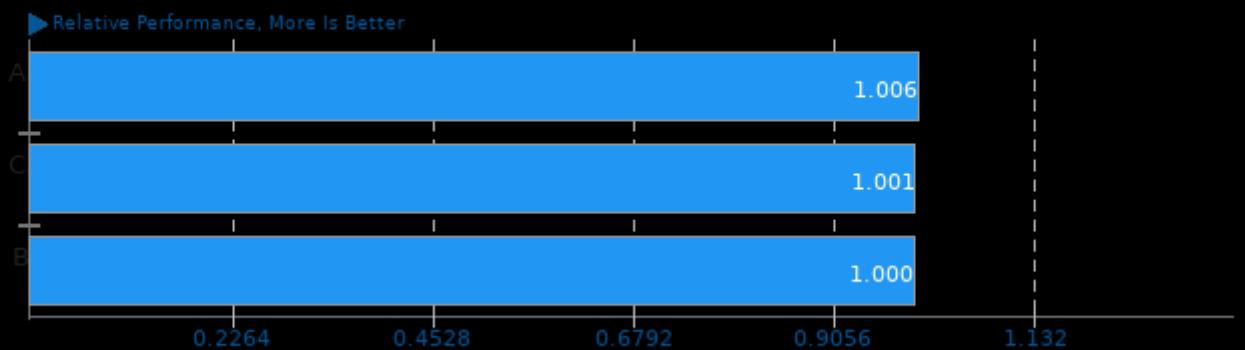


Geometric mean based upon tests: pts/dav1d, pts/svt-av1, pts/svt-hevc, pts/svt-vp9, pts/vpxenc, pts/x264 and pts/x265

Core i5 12400 Video Encoding

Geometric Mean Of Creator Workloads Tests

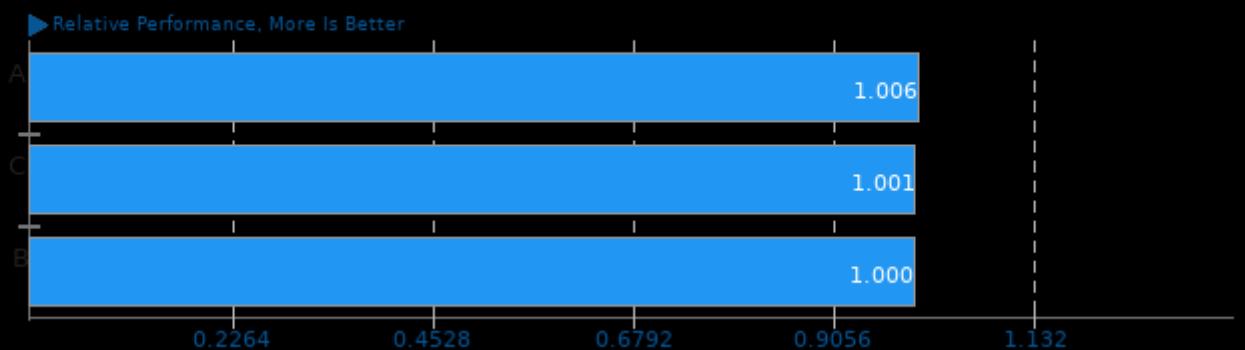
Result Composite - Core i5 12400 Video Encoding



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/x264, pts/x265, pts/kvazaar, pts/ffmpeg, pts/vpxenc, pts/dav1d, pts/aom-av1, pts/svt-av1, pts/libgav1, pts/rav1e and pts/avifenc

Geometric Mean Of Encoding Tests

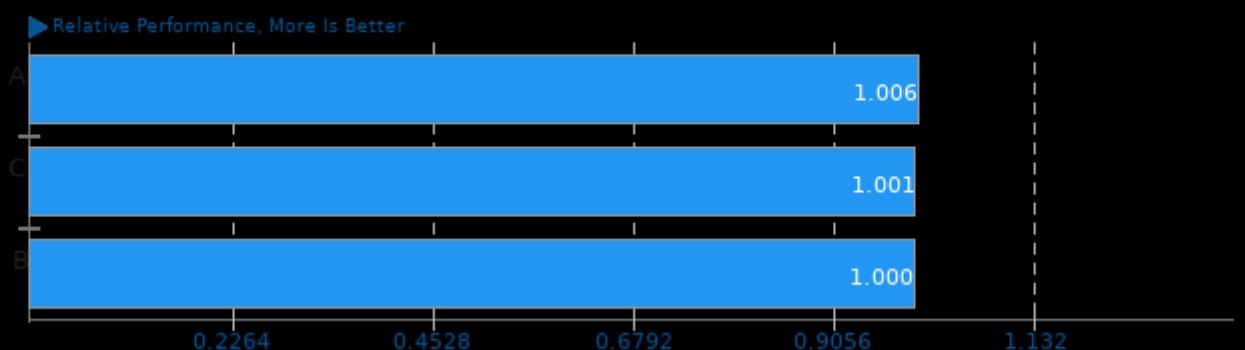
Result Composite - Core i5 12400 Video Encoding



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/x264, pts/x265, pts/kvazaar, pts/ffmpeg, pts/vpxenc, pts/dav1d, pts/aom-av1, pts/svt-av1, pts/libgav1, pts/rav1e and pts/avifenc

Geometric Mean Of Multi-Core Tests

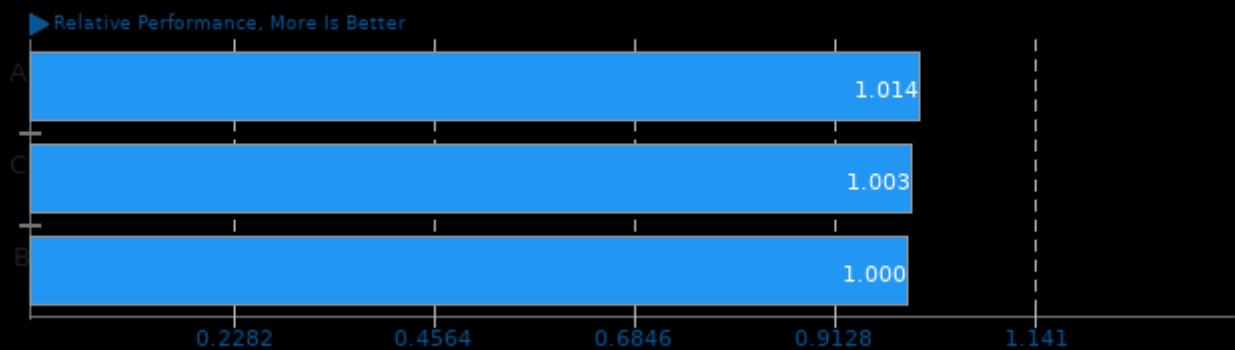
Result Composite - Core i5 12400 Video Encoding



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/x264, pts/x265, pts/kvazaar, pts/ffmpeg, pts/vpxenc, pts/dav1d, pts/aom-av1, pts/svt-av1, pts/libgav1, pts/rav1e and pts/avifenc

Geometric Mean Of Server CPU Tests

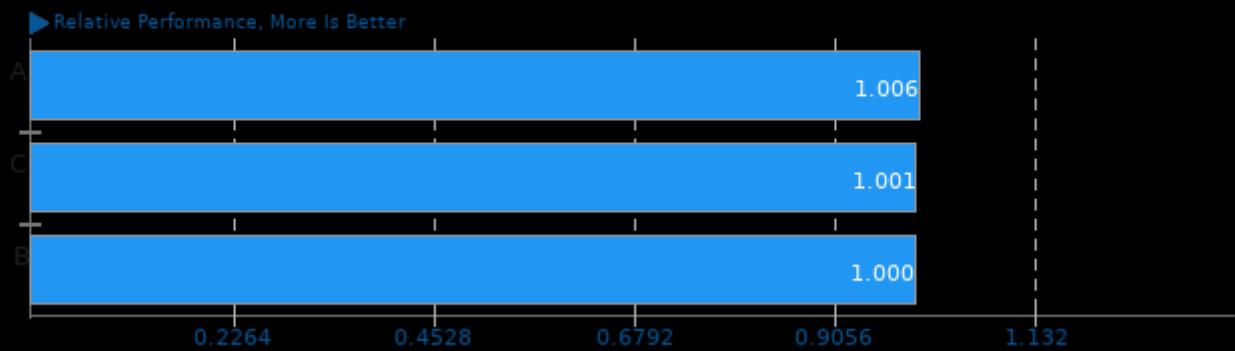
Result Composite - Core i5 12400 Video Encoding



Geometric mean based upon tests: pts/svt-av1, pts/svt-hevc, pts/svt-vp9, pts/x264, pts/x265 and pts/dav1d

Geometric Mean Of Video Encoding Tests

Result Composite - Core i5 12400 Video Encoding



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/x264, pts/x265, pts/kvazaar, pts/ffmpeg, pts/vpxenc, pts/dav1d, pts/aom-av1, pts/svt-av1, pts/libgav1, pts/rav1e and pts/avifenc

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 11:36.