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av1 10600K

Intel Core i5-10600K testing with a ASUS PRIME Z490M-PLUS (1001 BIOS) and ASUS Intel UHD 630 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

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

Based on the geometric mean of all complete results, the fastest (2) was 1.001x the speed of the slowest (1). 3 was 0.999x the speed of 2 and 1 was 0.999x the speed of 3.

Test Systems:

1

2

3

Processor: Intel Core i5-10600K @ 4.80GHz (6 Cores / 12 Threads), Motherboard: ASUS PRIME Z490M-PLUS (1001 BIOS), Chipset: Intel Comet Lake PCH, Memory: 32GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: ASUS Intel UHD 630 3GB (1200MHz), Audio: Realtek ALC887-VD, Monitor: LG Ultra HD, Network: Intel

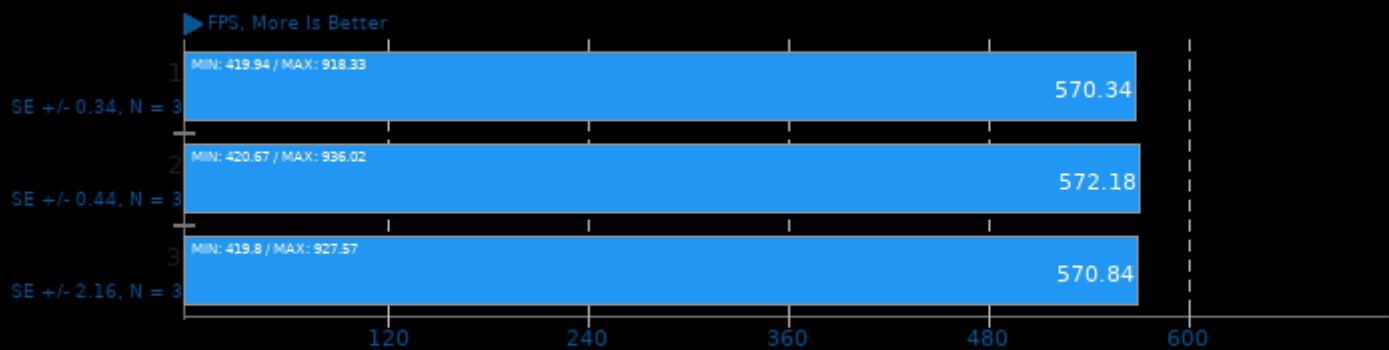
OS: Ubuntu 20.04, Kernel: 5.9.0-050900daily20201012-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.0.8, Vulkan: 1.2.131, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-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-HskZEA/gcc-9-9.3.0/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: intel_pstate powersave - CPU Microcode: 0xe0
Security Notes: itlb_multihit: KVM: Mitigation of VMX unsupported + 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

	1	2	3
dav1d - Chimera 1080p (FPS)	570.34	572.18	570.84
Normalized	99.68%	100%	99.77%
Standard Deviation	0.1%	0.1%	0.7%
dav1d - Summer Nature 4K (FPS)	148.47	148.63	148.65
Normalized	99.88%	99.99%	100%
Standard Deviation	0.1%	0.1%	0.1%
dav1d - S.N.1 (FPS)	523.28	524.39	525.52
Normalized	99.57%	99.78%	100%
Standard Deviation	0.4%	0.1%	0.2%
dav1d - C.1.1.b (FPS)	131.72	131.71	131.86
Normalized	99.89%	99.89%	100%
Standard Deviation	0.3%	0%	0.1%
libavif avifenc - 0 (sec)	82.446	82.252	82.514
Normalized	99.76%	100%	99.68%
Standard Deviation	0.4%	0.2%	0.9%
libavif avifenc - 2 (sec)	42.336	42.191	42.566
Normalized	99.66%	100%	99.12%
Standard Deviation	0.2%	0.1%	0.7%
libavif avifenc - 6 (sec)	14.621	14.653	14.587
Normalized	99.77%	99.55%	100%
Standard Deviation	0.5%	0.3%	0.3%
libavif avifenc - 10 (sec)	3.501	3.481	3.489
Normalized	99.43%	100%	99.77%
Standard Deviation	0.8%	0.5%	0.3%
libavif avifenc - 6, Lossless (sec)	77.222	77.017	76.984
Normalized	99.69%	99.96%	100%
Standard Deviation	0.4%	0.8%	0.4%
libavif avifenc - 10, Lossless (sec)	6.149	6.169	6.173
Normalized	100%	99.68%	99.61%
Standard Deviation	0.3%	0.4%	0.6%

dav1d 0.8.2

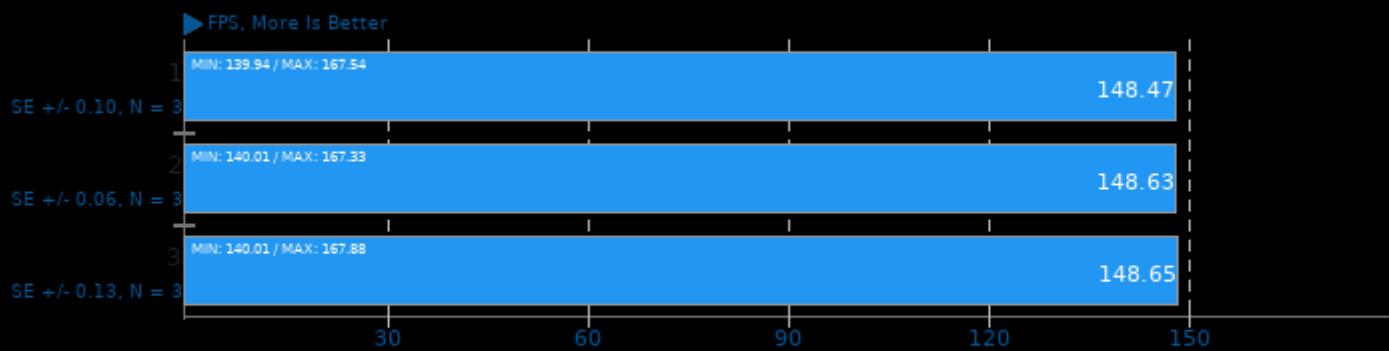
Video Input: Chimera 1080p



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

dav1d 0.8.2

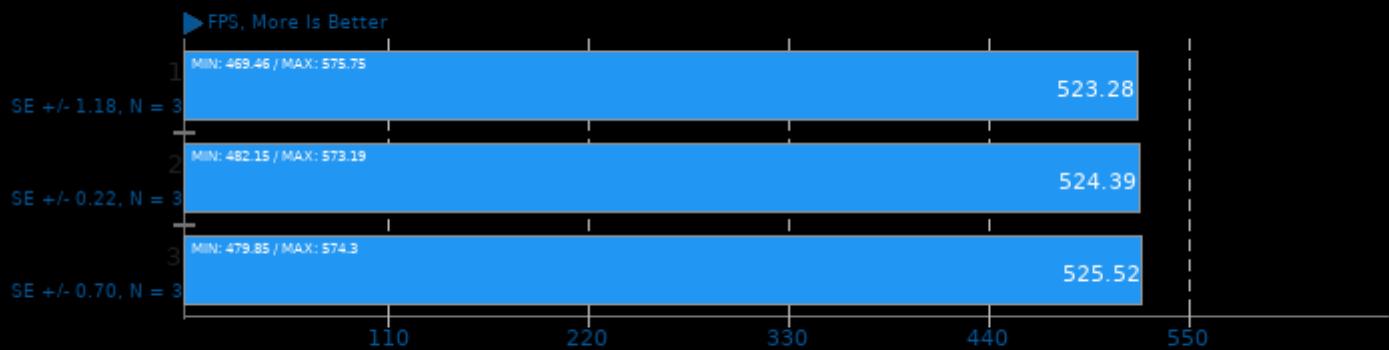
Video Input: Summer Nature 4K



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

dav1d 0.8.2

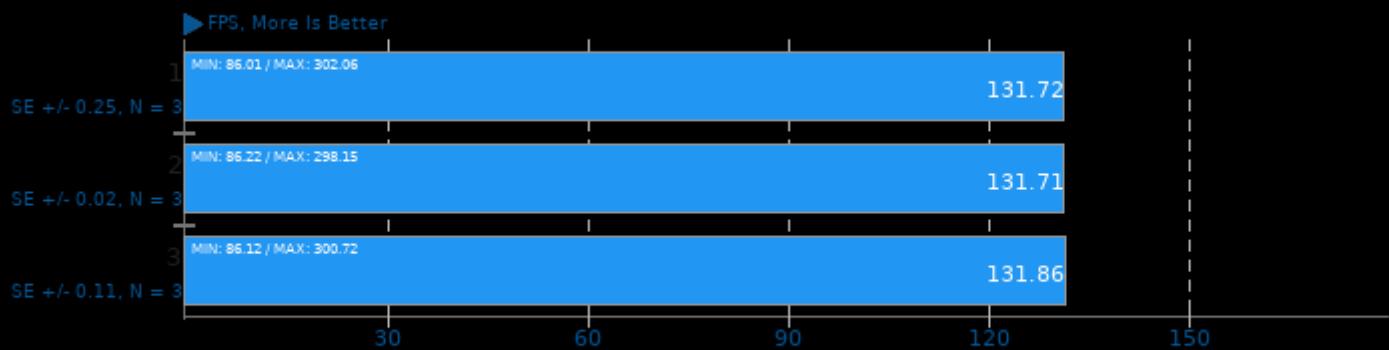
Video Input: Summer Nature 1080p



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

dav1d 0.8.2

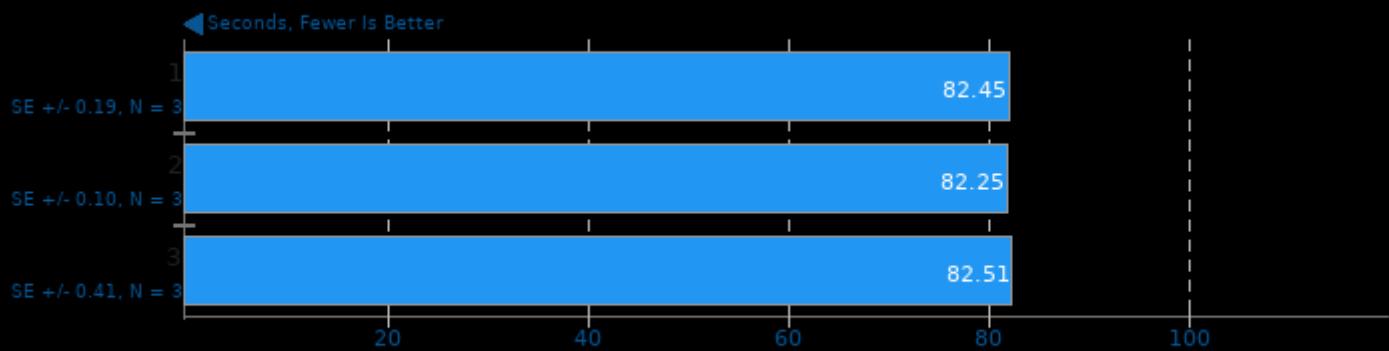
Video Input: Chimera 1080p 10-bit



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

libavif avifenc 0.9.0

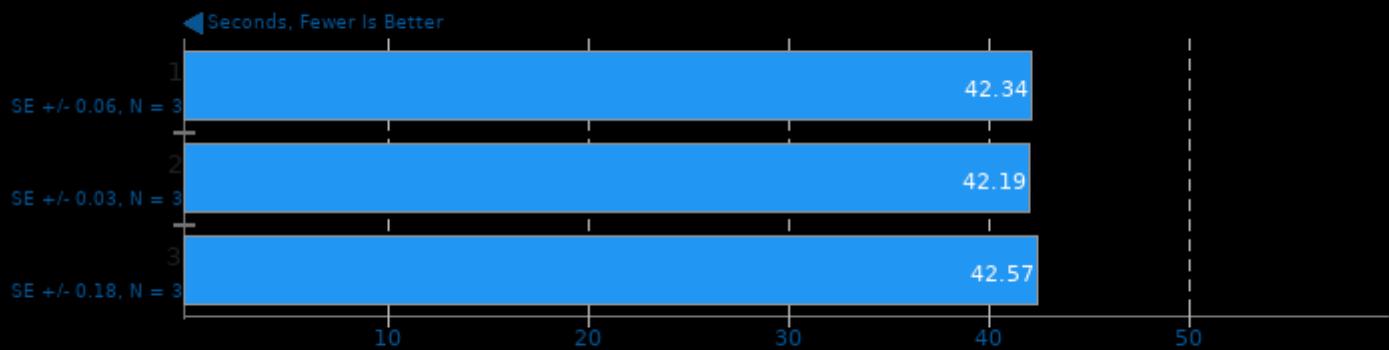
Encoder Speed: 0



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

libavif avifenc 0.9.0

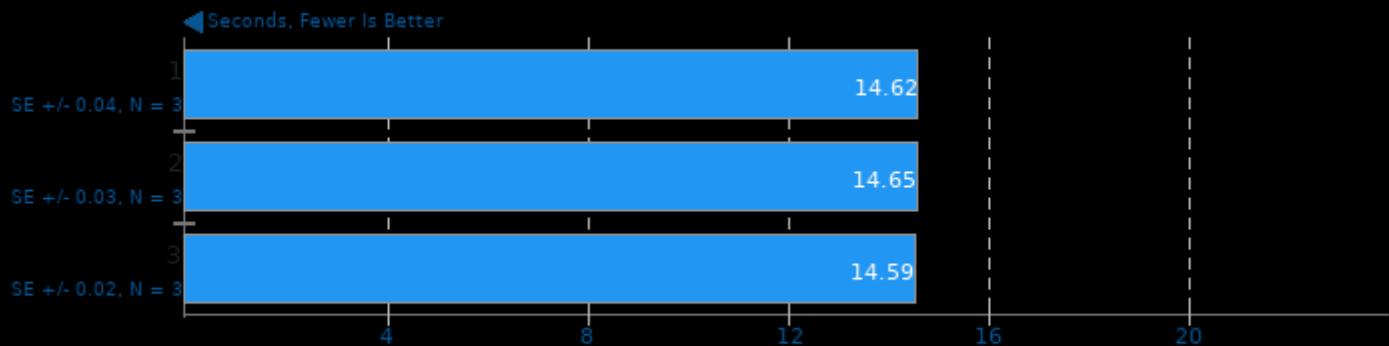
Encoder Speed: 2



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

libavif avifenc 0.9.0

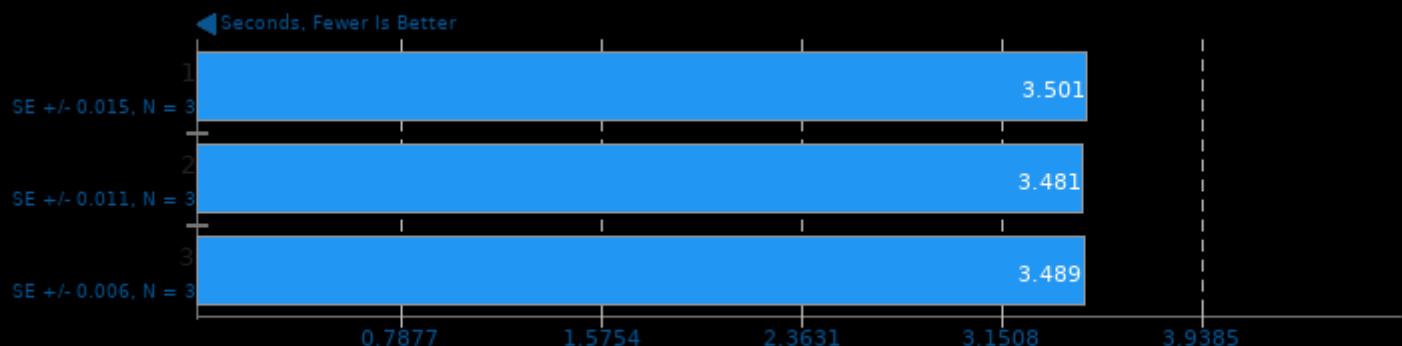
Encoder Speed: 6



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

libavif avifenc 0.9.0

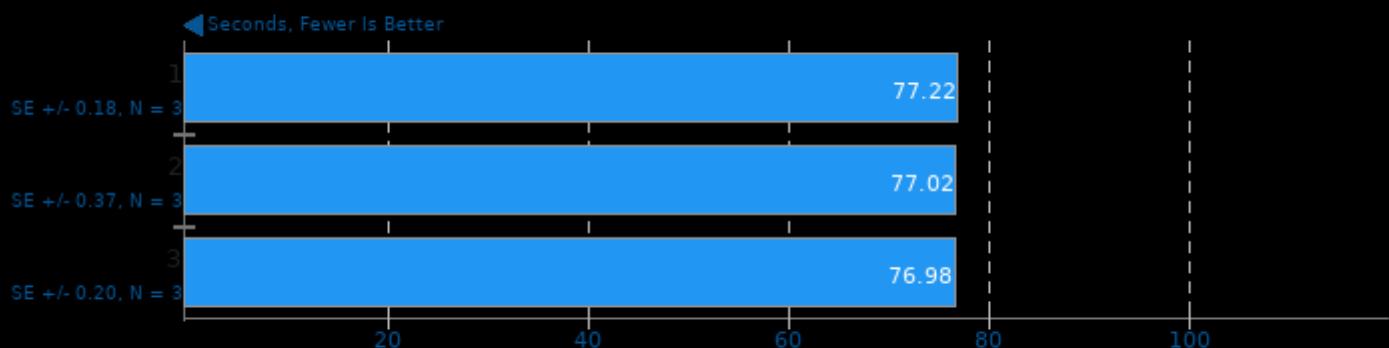
Encoder Speed: 10



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

libavif avifenc 0.9.0

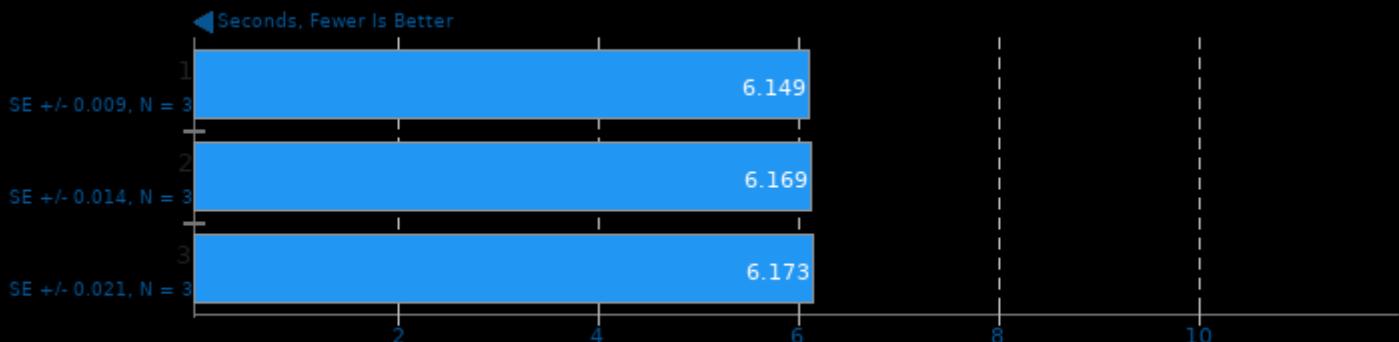
Encoder Speed: 6, Lossless



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

libavif avifenc 0.9.0

Encoder Speed: 10, Lossless

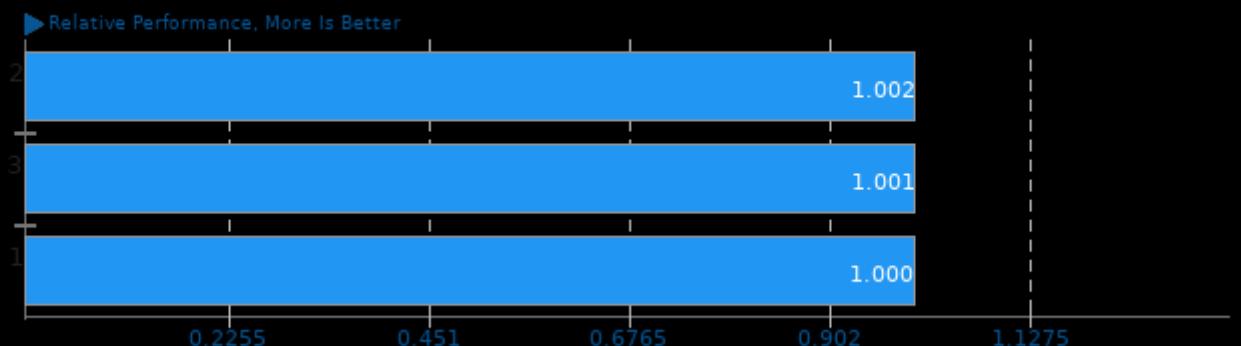


1. (CXX) g++ options: -O3 -fPIC -lm

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

Geometric Mean Of AV1 Tests

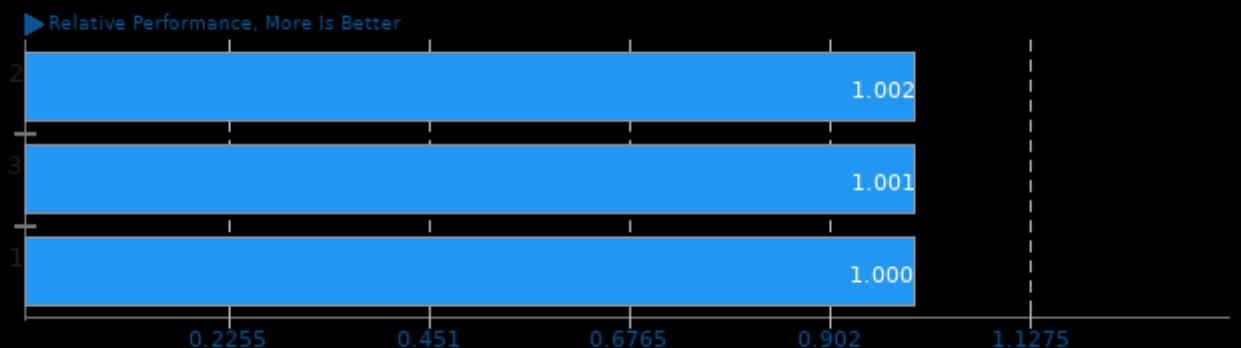
Result Composite - av1 10600K



Geometric mean based upon tests: pts/dav1d and pts/avifenc

Geometric Mean Of Creator Workloads Tests

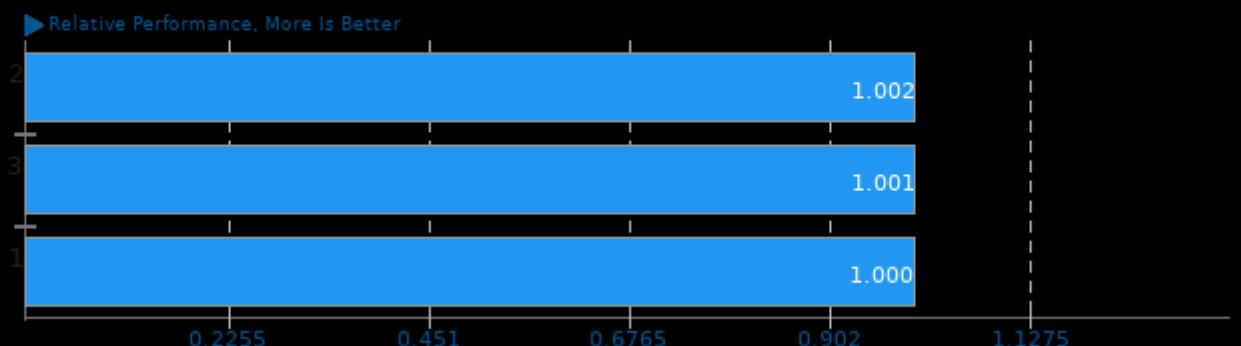
Result Composite - av1 10600K



Geometric mean based upon tests: pts/dav1d and pts/avifenc

Geometric Mean Of Encoding Tests

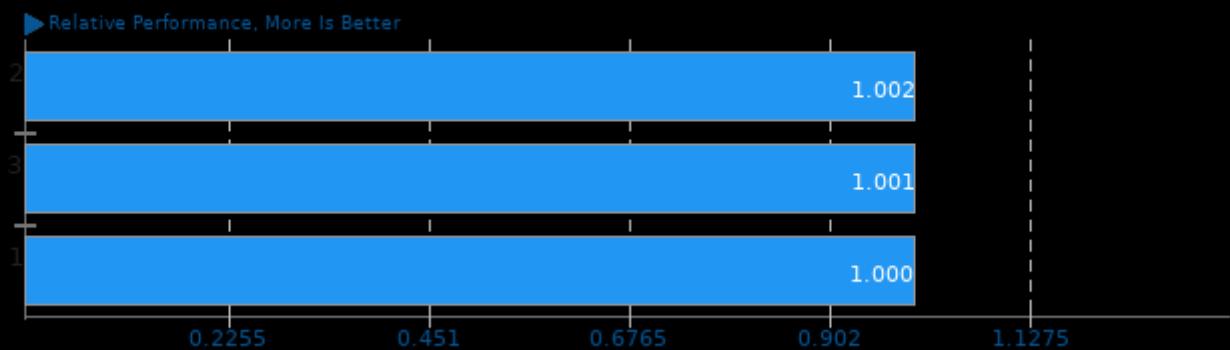
Result Composite - av1 10600K



Geometric mean based upon tests: pts/dav1d and pts/avifenc

Geometric Mean Of Multi-Core Tests

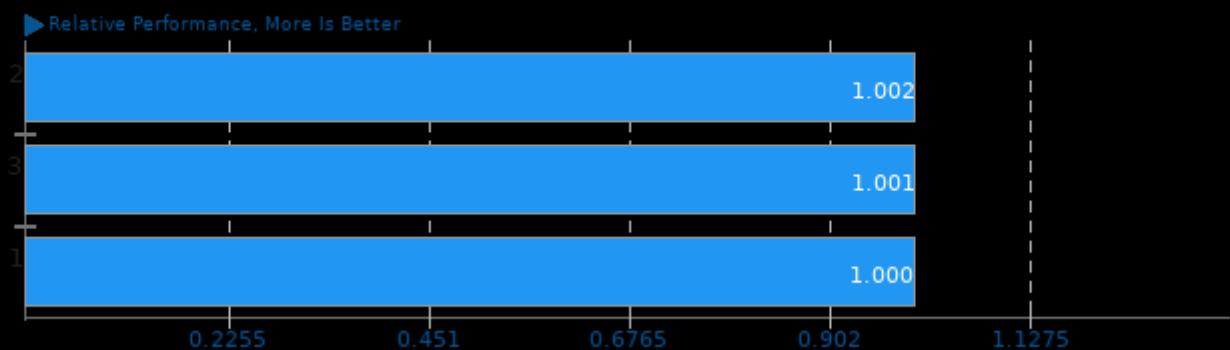
Result Composite - av1 10600K



Geometric mean based upon tests: pts/dav1d and pts/avifenc

Geometric Mean Of Video Encoding Tests

Result Composite - av1 10600K



Geometric mean based upon tests: pts/dav1d and pts/avifenc

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