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avifenc 3990X

AMD Ryzen Threadripper 3990X 64-Core testing with a System76 Thelio Major (F4c Z5 BIOS) and AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 8GB on Pop 20.10 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 33% of the tests.

Based on the geometric mean of all complete results, the fastest (4) was 1.002x the speed of the slowest (2). 5 was 0.999x the speed of 4, 3 was 0.999x the speed of 5, 1 was 1x the speed of 3, 2 was 1x the speed of 1.

Test Systems:

1

2

3

4

5

Processor: AMD Ryzen Threadripper 3990X 64-Core @ 2.90GHz (64 Cores / 128 Threads), Motherboard: System76 Thelio Major (F4c Z5 BIOS), Chipset: AMD Starship/Matisse, Memory: 126GB, Disk: Samsung SSD 970 EVO Plus 500GB, Graphics: AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 8GB (1750/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: DELL P2415Q, Network: Intel I211 + Intel Wi-Fi 6 AX200

OS: Pop 20.10, Kernel: 5.8.0-7630-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.8, OpenGL: 4.6 Mesa 21.1.0-devel (git-96d7555 2021-01-22 groovy-oibaf-ppa) (LLVM 11.0.1), Vulkan: 1.2.145, Compiler: GCC 10.2.0 + Clang 11.0.1-1~oibaf~g, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: snd_usb_audio.ignore_ctl_error=1 - 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,objc++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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

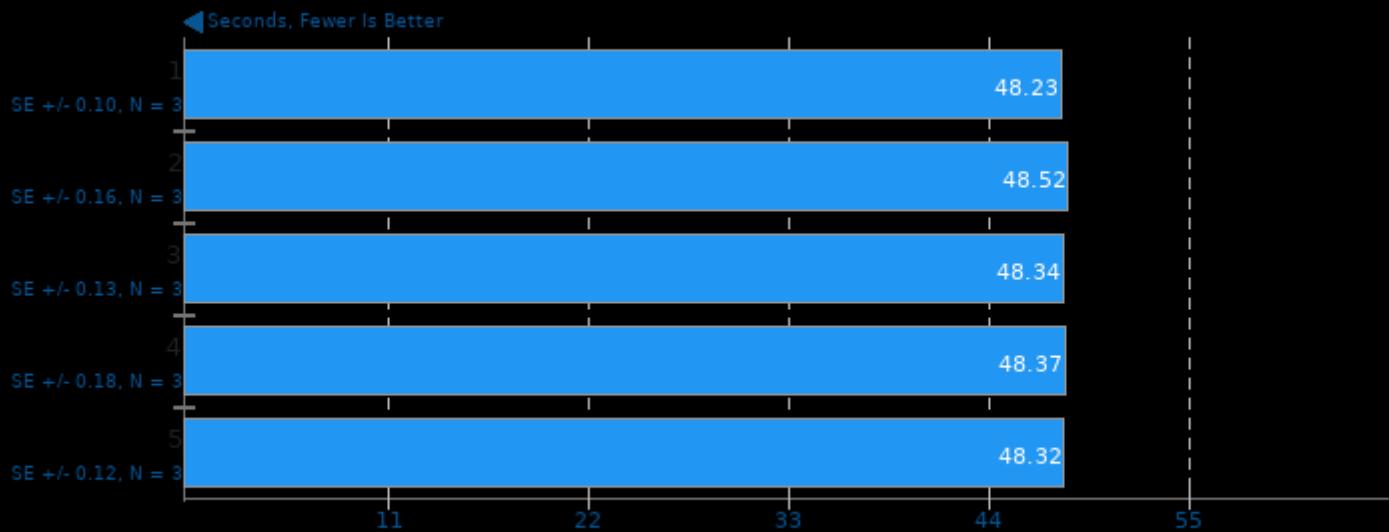
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8301025

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: conditional RSB filling + srbs: Not affected + tsx_async_abort: Not affected

	1	2	3	4	5
libavif avifenc - 0 (sec)	48.230	48.517	48.335	48.370	48.318
Normalized	100%	99.41%	99.78%	99.71%	99.82%
Standard Deviation	0.4%	0.6%	0.5%	0.6%	0.4%
libavif avifenc - 2 (sec)	25.644	25.687	25.734	25.686	25.721
Normalized	100%	99.83%	99.65%	99.84%	99.7%
Standard Deviation	0.1%	0.5%	0.7%	0.5%	0.9%
libavif avifenc - 6 (sec)	9.794	9.758	9.783	9.788	9.792
Normalized	99.63%	100%	99.74%	99.69%	99.65%
Standard Deviation	0.1%	0.4%	0.8%	1%	0.4%
libavif avifenc - 10 (sec)	3.279	3.260	3.258	3.241	3.257
Normalized	98.84%	99.42%	99.48%	100%	99.51%
Standard Deviation	0.3%	1.1%	0.2%	0.2%	0.2%
libavif avifenc - 6, Lossless (sec)	27.669	27.815	27.779	27.720	27.640
Normalized	99.9%	99.37%	99.5%	99.71%	100%
Standard Deviation	0.4%	0.5%	0.2%	0.4%	0.4%
libavif avifenc - 10, Lossless	5.837	5.829	5.824	5.810	5.825
Normalized	99.54%	99.67%	99.76%	100%	99.74%
Standard Deviation	0.7%	0.5%	0.6%	0.4%	0.5%

libavif avifenc 0.9.0

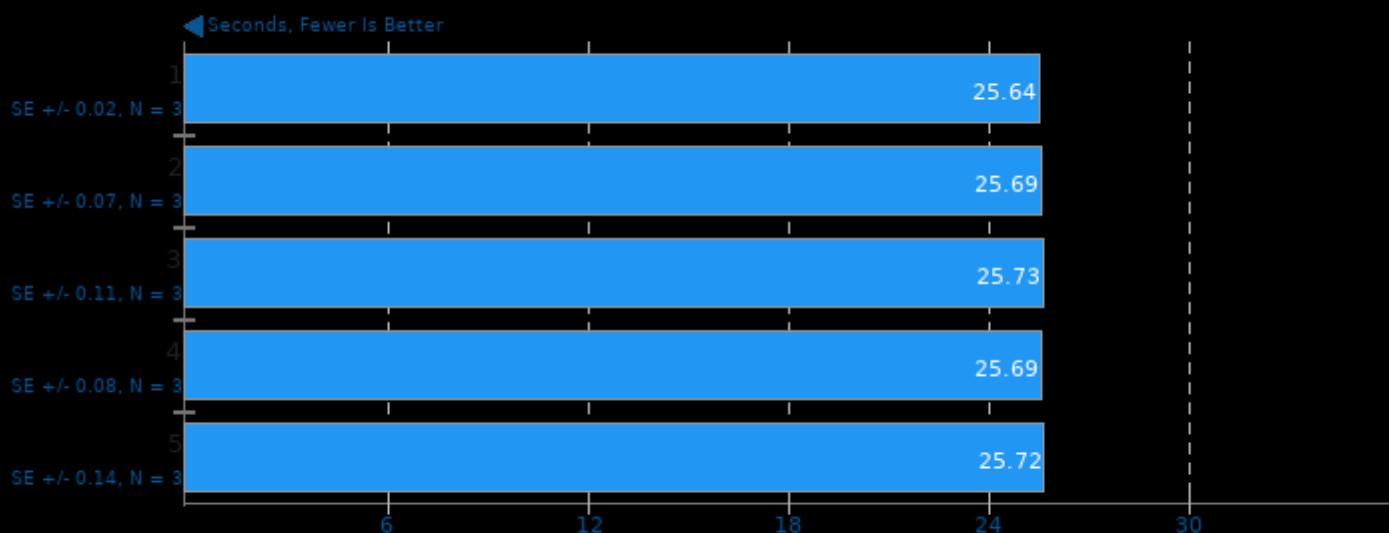
Encoder Speed: 0



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

libavif avifenc 0.9.0

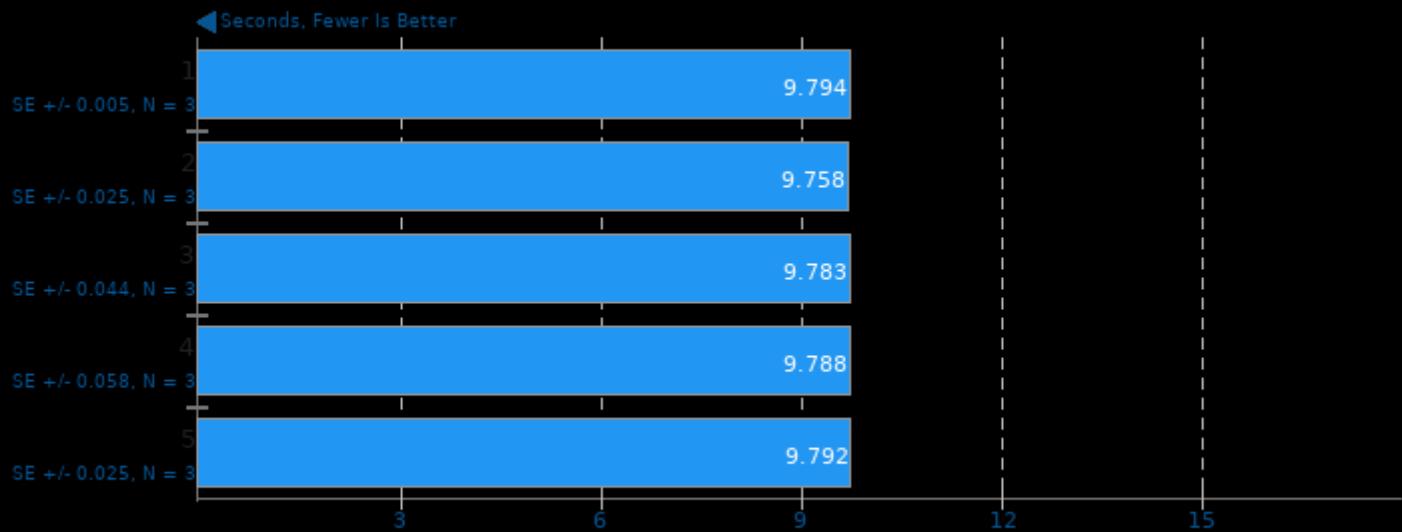
Encoder Speed: 2



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

libavif avifenc 0.9.0

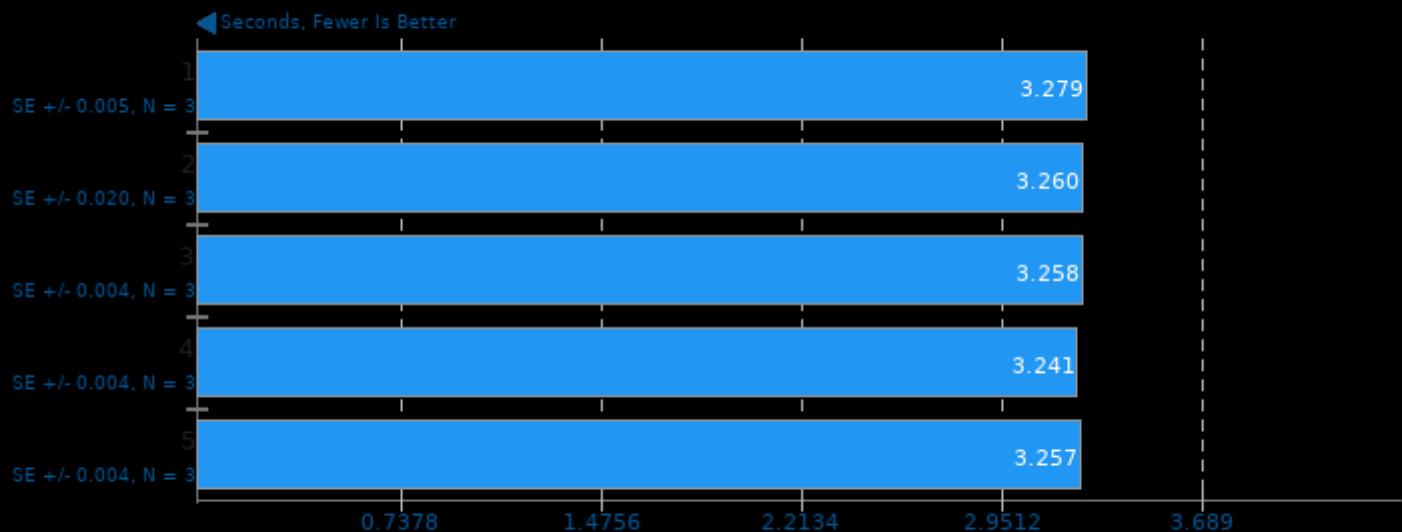
Encoder Speed: 6



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

libavif avifenc 0.9.0

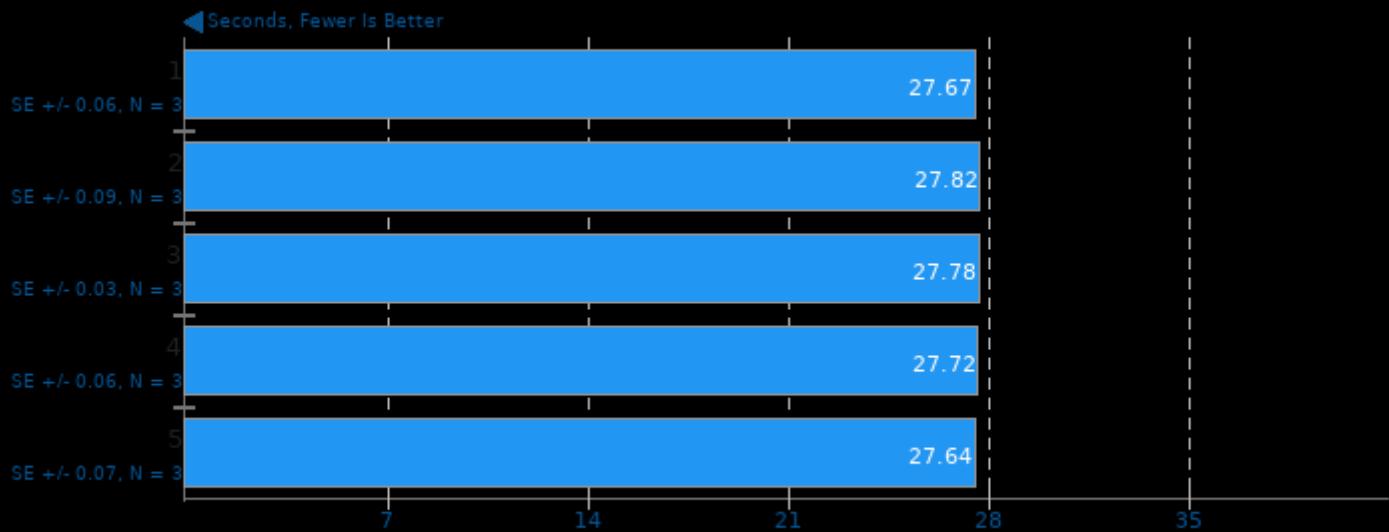
Encoder Speed: 10



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

libavif avifenc 0.9.0

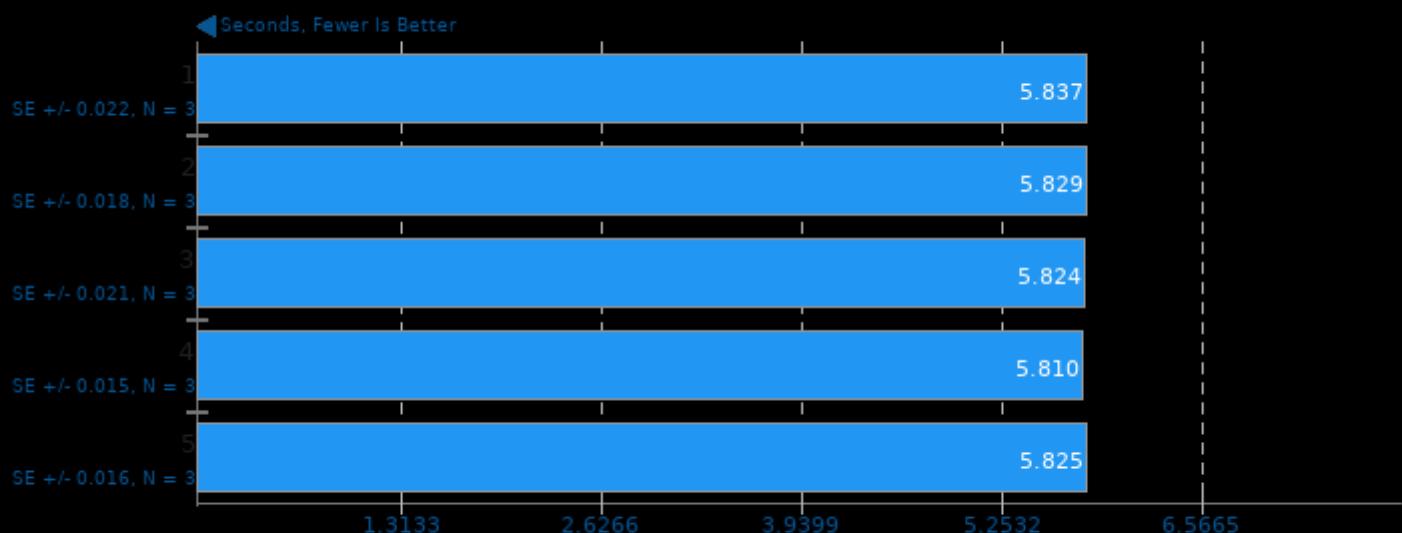
Encoder Speed: 6, Lossless



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

libavif avifenc 0.9.0

Encoder Speed: 10, Lossless



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 13:15.