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## 3400g avifenc

AMD Ryzen 5 3400G testing with a ASUS PRIME B450M-A (2006 BIOS) and ASUS AMD Picasso 2GB on Ubuntu 19.10 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 1x the speed of the slowest (1). 2 was 1x the speed of 3 and 1 was 1x the speed of 2.*

### Test Systems:

1

2

## 3

Processor: AMD Ryzen 5 3400G @ 3.70GHz (4 Cores / 8 Threads), Motherboard: ASUS PRIME B450M-A (2006 BIOS), Chipset: AMD Raven/Raven2, Memory: 2 x 8192 MB DDR4-3000MT/s CRUCIAL, Disk: 29GB INTEL MEMPEK1W032GA + 4 x 6001GB Seagate ST6000VN0033-2EE, Graphics: ASUS AMD Picasso 2GB (1400/1500MHz), Audio: AMD Raven/Raven2/Fenghuang, Monitor: SyncMaster, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 19.10, Kernel: 5.3.0-46-generic (x86\_64), Desktop: GNOME Shell 3.34.1, Display Server: X Server, Display Driver: asus, Vulkan: 1.1.107, Compiler: GCC 9.2.1 20191008, File-System: ext4, Screen Resolution: 1280x800

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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-nsis --enable-offload-targets=nvptx-none,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

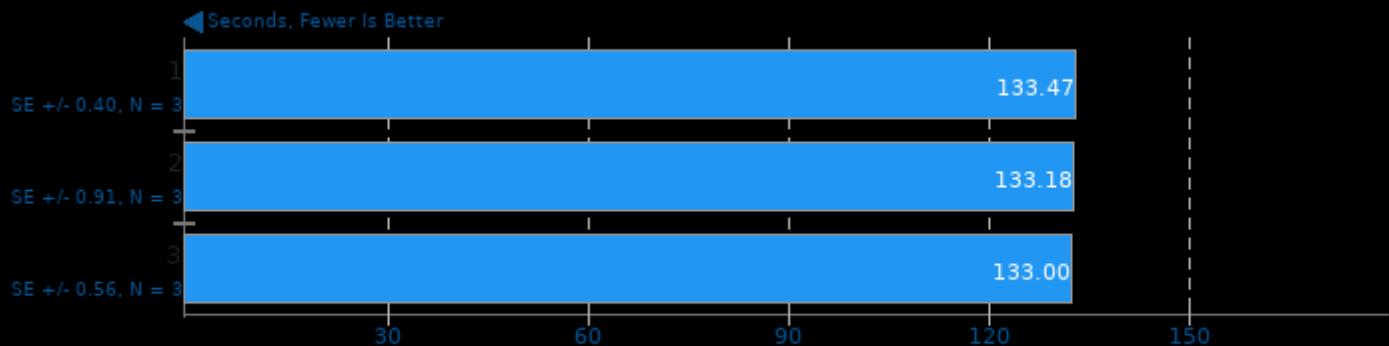
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8108109

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 retrpeline IBPB: conditional STIBP: disabled RSB filling + tsx\_async\_abort: Not affected

	1	2	3
<b>libavif avifenc - 0 (sec)</b>	<b>133.466</b>	133.177	<b>132.998</b>
Normalized	99.65%	99.87%	100%
Standard Deviation	0.5%	1.2%	0.7%
<b>libavif avifenc - 2 (sec)</b>	<b>68.296</b>	68.242	<b>68.232</b>
Normalized	99.91%	99.99%	100%
Standard Deviation	0.8%	0.4%	0.6%
<b>libavif avifenc - 6 (sec)</b>	22.661	<b>22.642</b>	<b>22.718</b>
Normalized	99.92%	100%	99.67%
Standard Deviation	0.4%	0.2%	0.4%
<b>libavif avifenc - 10 (sec)</b>	<b>4.459</b>	<b>4.496</b>	4.492
Normalized	100%	99.18%	99.27%
Standard Deviation	0.1%	0.8%	0.9%
<b>libavif avifenc - 6, Lossless (sec)</b>	<b>117.533</b>	117.045	<b>116.953</b>
Normalized	99.51%	99.92%	100%
Standard Deviation	1.3%	0.9%	0.3%
<b>libavif avifenc - 10, Lossless (sec)</b>	<b>7.816</b>	<b>7.789</b>	7.798
Normalized	99.65%	100%	99.88%
Standard Deviation	0.9%	0.6%	0.5%

**libavif avifenc 0.9.0**

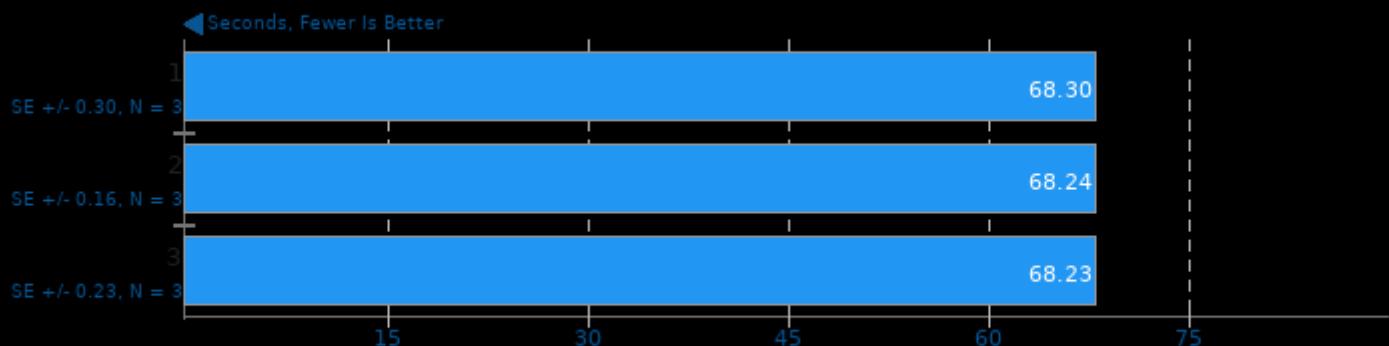
Encoder Speed: 0



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

**libavif avifenc 0.9.0**

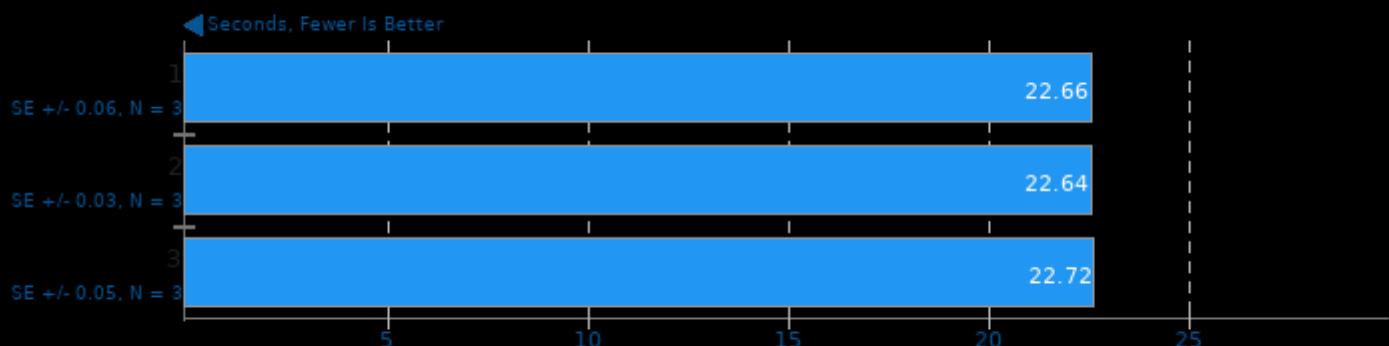
Encoder Speed: 2



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

**libavif avifenc 0.9.0**

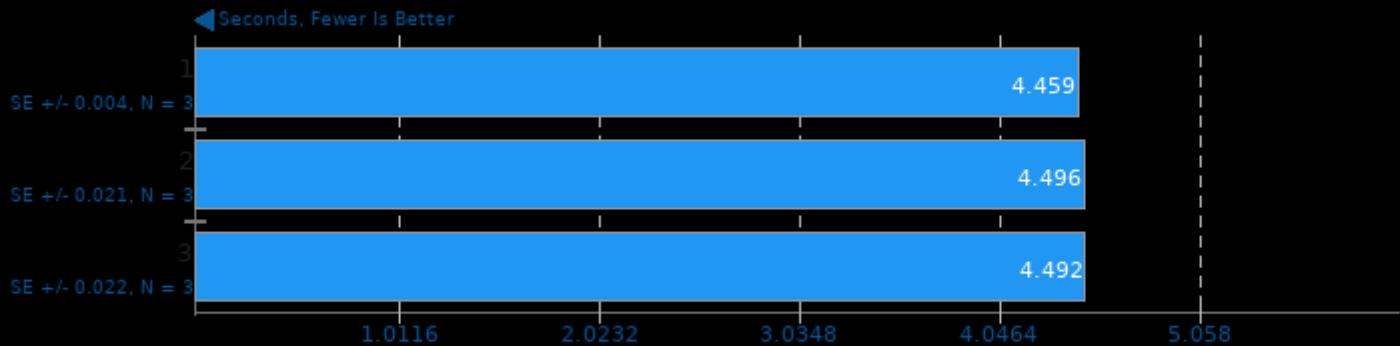
Encoder Speed: 6



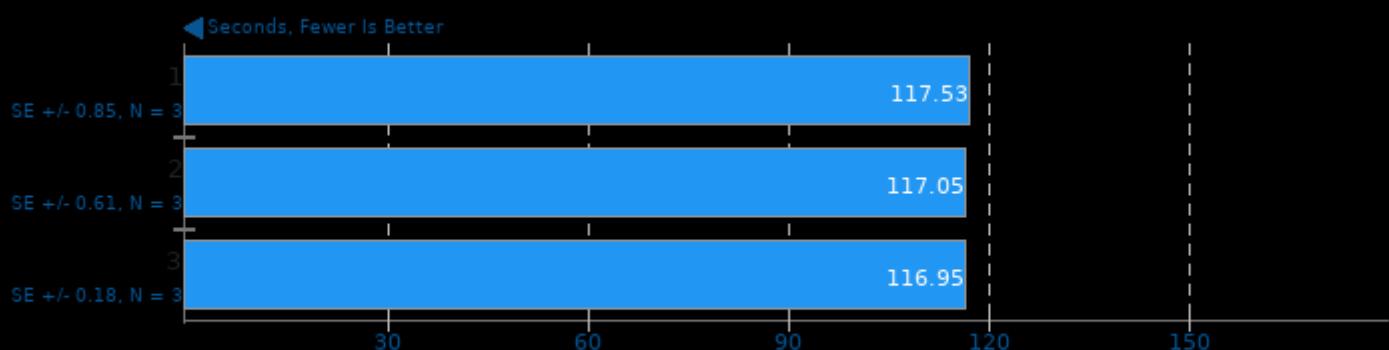
1. (CXX) g++ options: -O3 -fPIC -lm

**libavif avifenc 0.9.0**

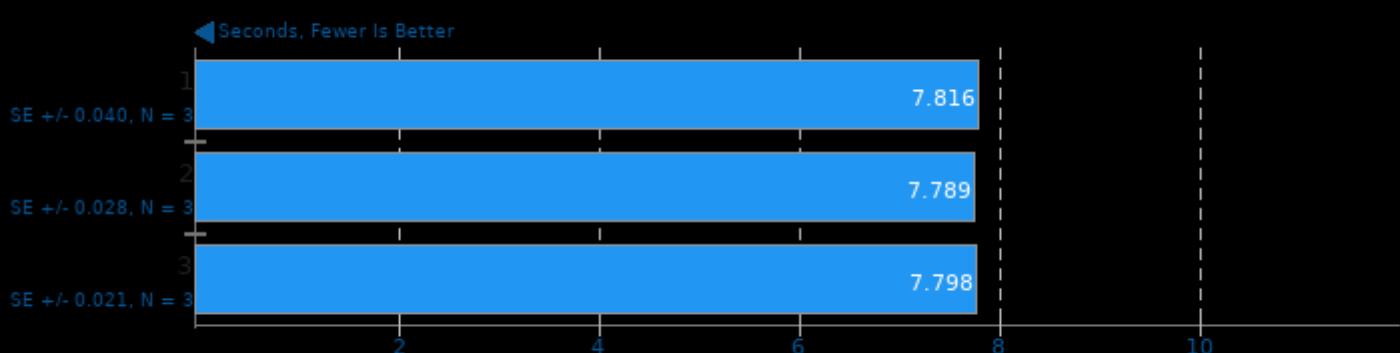
Encoder Speed: 10

**libavif avifenc 0.9.0**

Encoder Speed: 6, Lossless

**libavif avifenc 0.9.0**

Encoder Speed: 10, Lossless



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