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# avifenc 3900XT

AMD Ryzen 9 3900XT 12-Core testing with a MSI MEG X570 GODLIKE (MS-7C34) v1.0 (1.B3 BIOS) and AMD Radeon RX 56/64 8GB on Ubuntu 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 (1) was 1.002x the speed of the slowest (3). 2 was 1x the speed of 1, 4 was 0.999x the speed of 2, 3 was 1x the speed of 4.*

## Test Systems:

**1**

**2**

# avifenc 3900XT

## 3

## 4

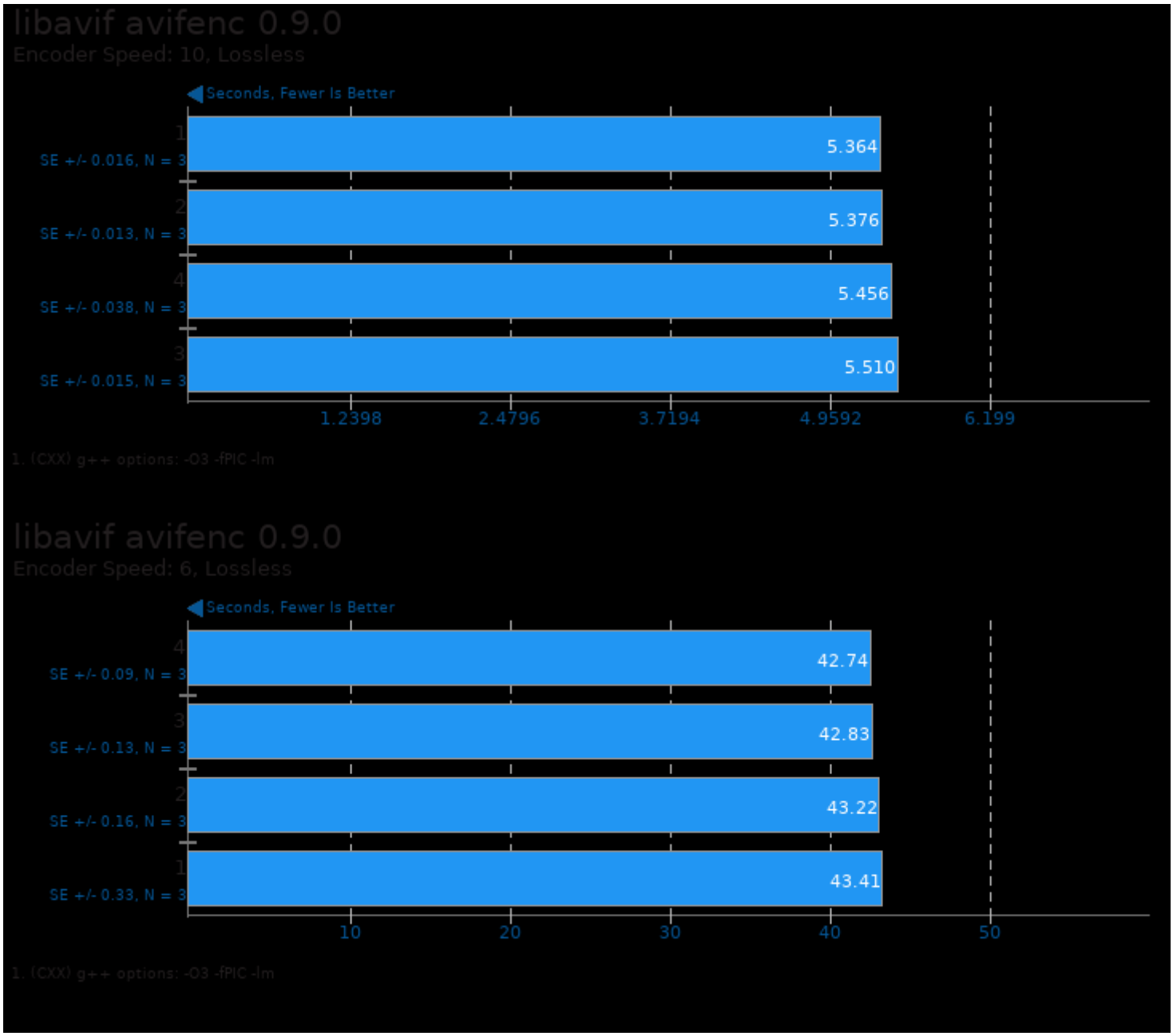
Processor: AMD Ryzen 9 3900XT 12-Core @ 3.80GHz (12 Cores / 24 Threads), Motherboard: MSI MEG X570 GODLIKE (MS-7C34) v1.0 (1.B3 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 500GB Seagate FireCuda 520 SSD ZP500GM30002, Graphics: AMD Radeon RX 56/64 8GB (1630/945MHz), Audio: AMD Vega 10 HDMI Audio, Monitor: ASUS MG28U, Network: Realtek Device 2600 + Realtek Device 3000 + Intel Wi-Fi 6 AX200

OS: Ubuntu 20.10, Kernel: 5.11.0-rc1-phx (x86_64) 20201228, Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.1 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

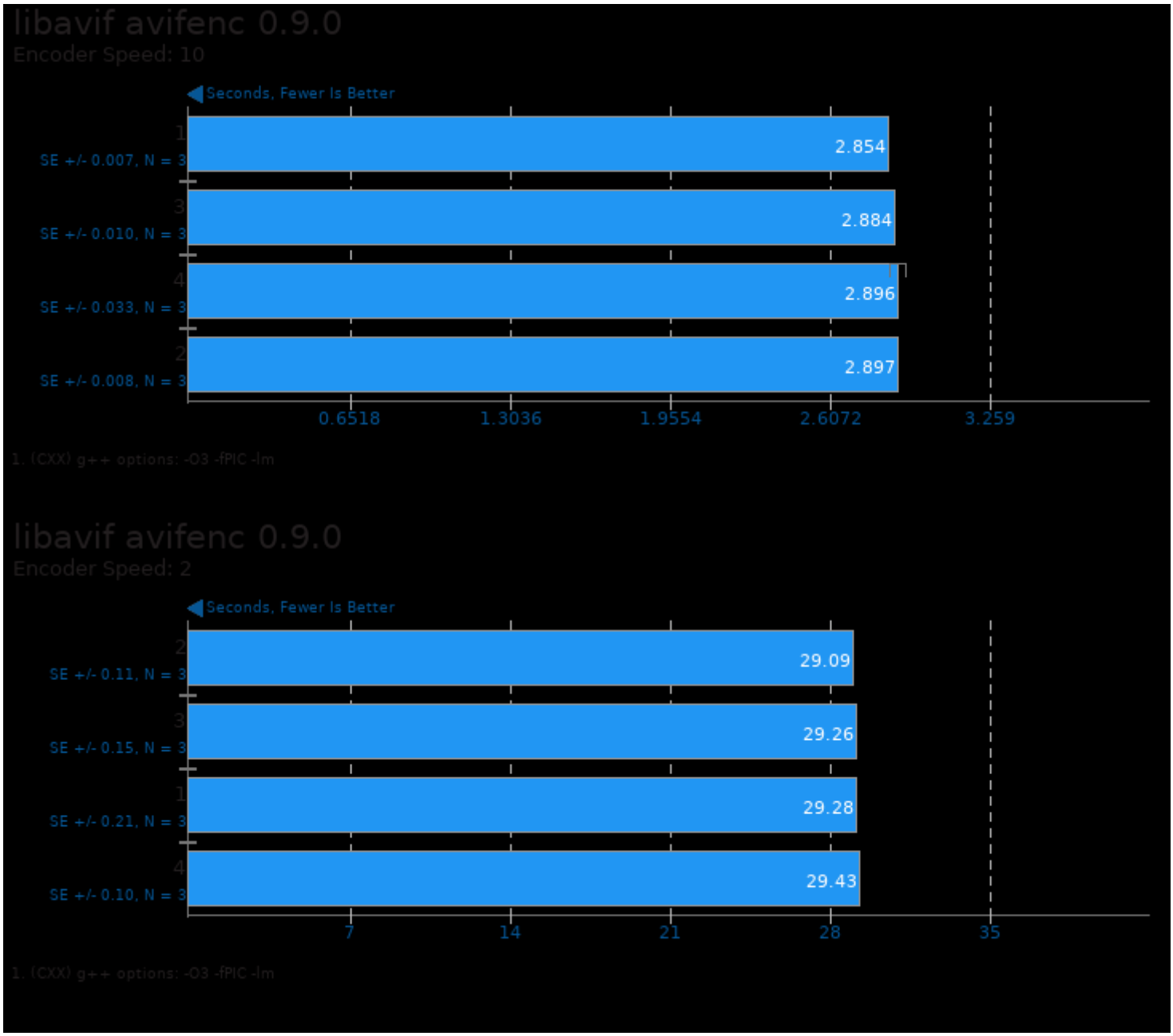
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --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 schedutil (Boost: Enabled) - CPU Microcode: 0x8701021
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 + srbds: Not affected + tsx_async_abort: Not affected

| | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| **libavif avifenc - 10, Lossless (sec)** | **5.364** | 5.376 | **5.510** | 5.456 |
| **Normalized** | 100% | 99.78% | 97.35% | 98.31% |
| **Standard Deviation** | 0.5% | 0.4% | 0.5% | 1.2% |
| **libavif avifenc - 6, Lossless (sec)** | **43.413** | 43.218 | 42.830 | **42.739** |
| **Normalized** | 98.45% | 98.89% | 99.79% | 100% |
| **Standard Deviation** | 1.3% | 0.6% | 0.5% | 0.4% |
| **libavif avifenc - 10 (sec)** | **2.854** | **2.897** | 2.884 | 2.896 |
| **Normalized** | 100% | 98.52% | 98.96% | 98.55% |
| **Standard Deviation** | 0.4% | 0.5% | 0.6% | 2% |
| **libavif avifenc - 2 (sec)** | 29.282 | **29.086** | 29.256 | **29.431** |
| **Normalized** | 99.33% | 100% | 99.42% | 98.83% |
| **Standard Deviation** | 1.2% | 0.7% | 0.9% | 0.6% |
| **libavif avifenc - 0 (sec)** | **55.892** | 55.726 | 55.473 | **55.311** |
| **Normalized** | 98.96% | 99.26% | 99.71% | 100% |
| **Standard Deviation** | 0.8% | 1% | 0.5% | 0.6% |
| **libavif avifenc - 6 (sec)** | 10.655 | **10.658** | **10.622** | 10.652 |
| **Normalized** | 99.69% | 99.66% | 100% | 99.72% |
| **Standard Deviation** | 0.2% | 0.1% | 0.3% | 1.4% |

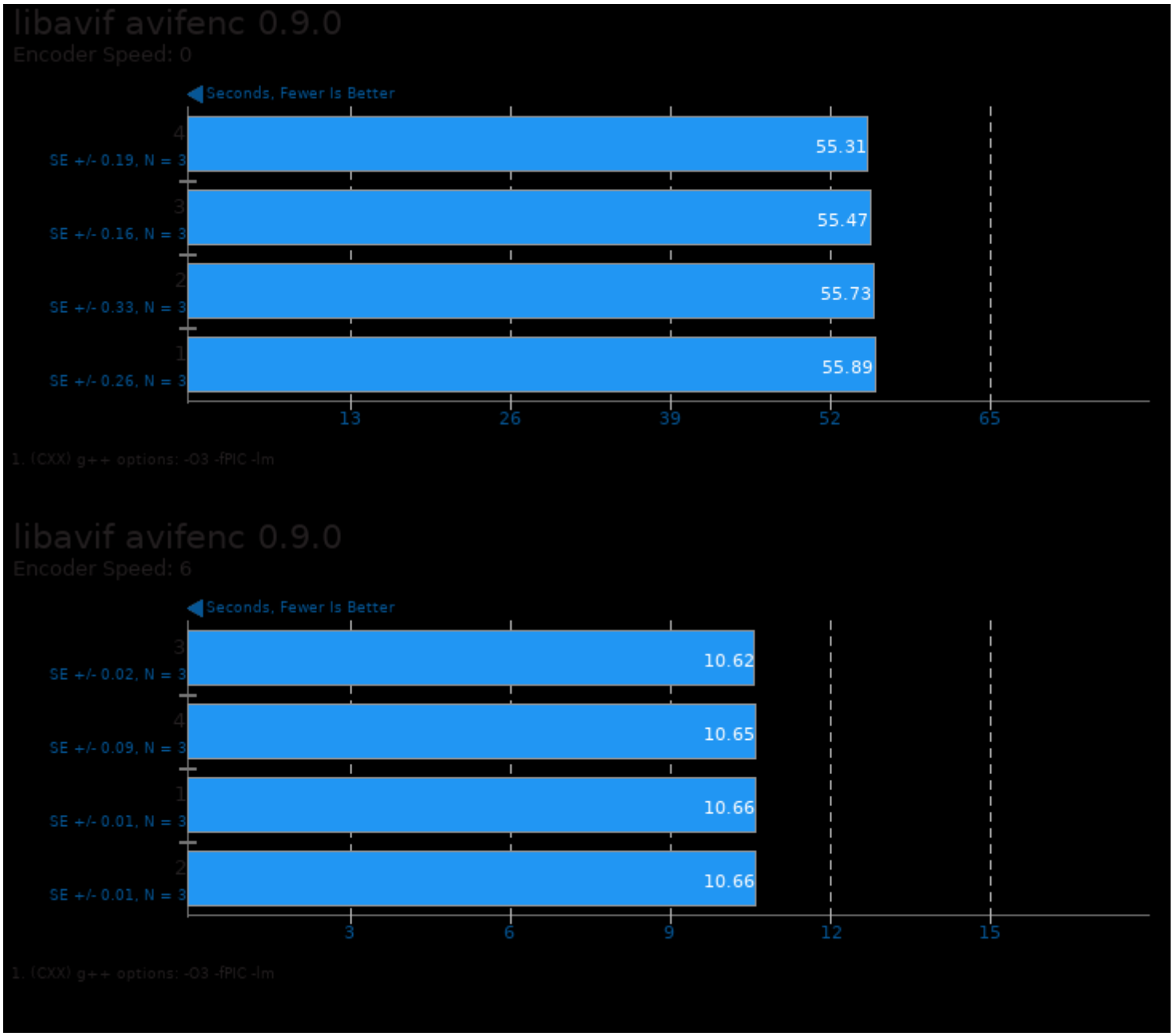
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*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 10:25.*