

www.phoronix-test-suite.com

gbv6-20jul21

AMD Ryzen 9 5950X 16-Core testing with a ASUS TUF GAMING X570-PRO (WI-FI) (4002 BIOS) and MSI NVIDIA GeForce GT 710 1GB on Debian 11 via the Phoronix Test Suite.

Test Systems:

AMD Ryzen 9 5950X 16-Core

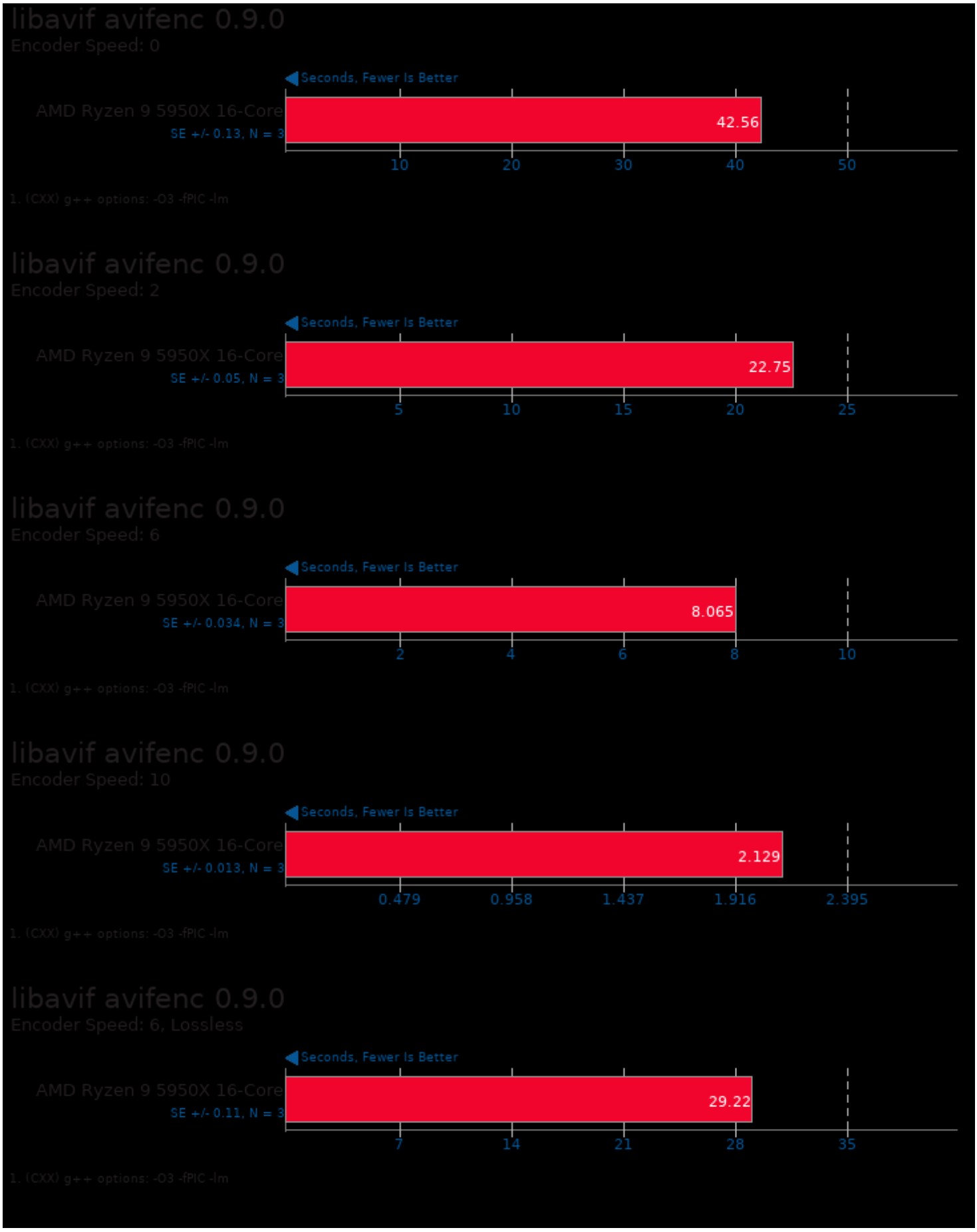
Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: ASUS TUF GAMING X570-PRO (WI-FI) (4002 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 500GB KINGSTON SA2000M8500G, Graphics: MSI NVIDIA GeForce GT 710 1GB, Audio: NVIDIA GK208 HDMI/DP, Monitor: R271, Network: Intel I225-V + Intel Wi-Fi 6 AX200

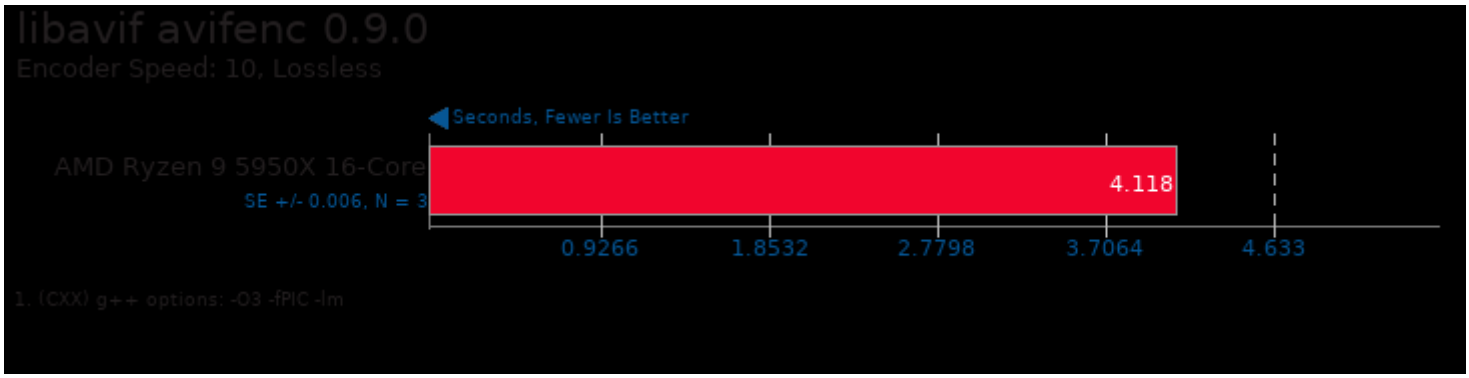
OS: Debian 11, Kernel: 5.10.0-7-amd64 (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server 1.20.11, Display Driver: NVIDIA 460.73.01, OpenGL: 4.6.0, Vulkan: 1.2.155, Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/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-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: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0xa201016
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	AMD Ryzen 9 5950X 16-Core
libavif avifenc - 0 (sec)	42.558
Standard Deviation	0.5%
libavif avifenc - 2 (sec)	22.751
Standard Deviation	0.4%
libavif avifenc - 6 (sec)	8.065
Standard Deviation	0.7%
libavif avifenc - 10 (sec)	2.129
Standard Deviation	1%
libavif avifenc - 6, Lossless (sec)	29.220
Standard Deviation	0.6%
libavif avifenc - 10, Lossless (sec)	4.118
Standard Deviation	0.2%


libavif avifenc 0.9.0
Encoder Speed: 0
Seconds, Fewer Is Better
AMD Ryzen 9 5950X 16-Core
SE +/- 0.13, N = 3
42.56
10
20
30
40
50
1. (CXX) g++ options: -O3 -fPIC -lm
libavif avifenc 0.9.0
Encoder Speed: 2
Seconds, Fewer Is Better
AMD Ryzen 9 5950X 16-Core
SE +/- 0.05, N = 3
22.75
5
10
15
20
25
1. (CXX) g++ options: -O3 -fPIC -lm
libavif avifenc 0.9.0
Encoder Speed: 6
Seconds, Fewer Is Better
AMD Ryzen 9 5950X 16-Core
SE +/- 0.034, N = 3
8.065
2
4
6
8
10
1. (CXX) g++ options: -O3 -fPIC -lm
libavif avifenc 0.9.0
Encoder Speed: 10
Seconds, Fewer Is Better
AMD Ryzen 9 5950X 16-Core
SE +/- 0.013, N = 3
2.129
0.479
0.958
1.437
1.916
2.395
1. (CXX) g++ options: -O3 -fPIC -lm
libavif avifenc 0.9.0
Encoder Speed: 6, Lossless
Seconds, Fewer Is Better
AMD Ryzen 9 5950X 16-Core
SE +/- 0.11, N = 3
29.22
7
14
21
28
35
1. (CXX) g++ options: -O3 -fPIC -lm



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 14:33.