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avifenc 5950X

AMD Ryzen 9 5950X 16-Core testing with a ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3202 BIOS) and Zotac NVIDIA GeForce RTX 2080 8GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

4 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 1.004x the speed of the slowest (2). 4 was 1x the speed of 1, 3 was 0.999x the speed of 4, 5 was 0.998x the speed of 3, 2 was 0.999x the speed of 5.

Test Systems:

1

2

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3

4

5

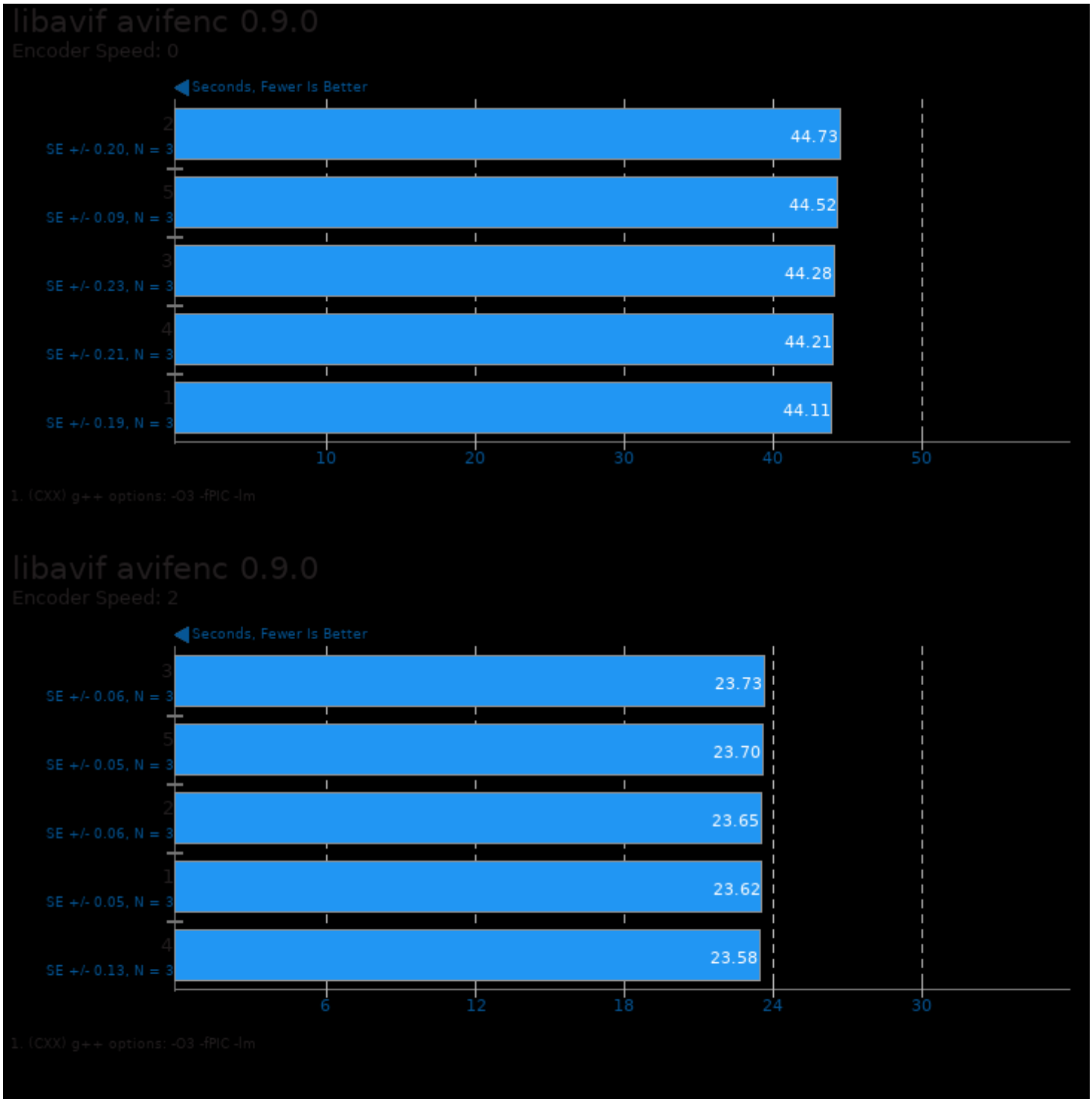
Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3202 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 2000GB Corsair Force MP600 + 2000GB, Graphics: Zotac NVIDIA GeForce RTX 2080 8GB, Audio: NVIDIA TU104 HD Audio, Monitor: ASUS MG28U, Network: Realtek RTL8125 2.5GbE + Intel I211 + Intel Wi-Fi 6 AX200

OS: Ubuntu 20.10, Kernel: 5.8.0-43-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, Display Driver: NVIDIA 460.39, OpenGL: 4.6.0, OpenCL: OpenCL 1.2 CUDA 11.2.136, Vulkan: 1.2.155, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

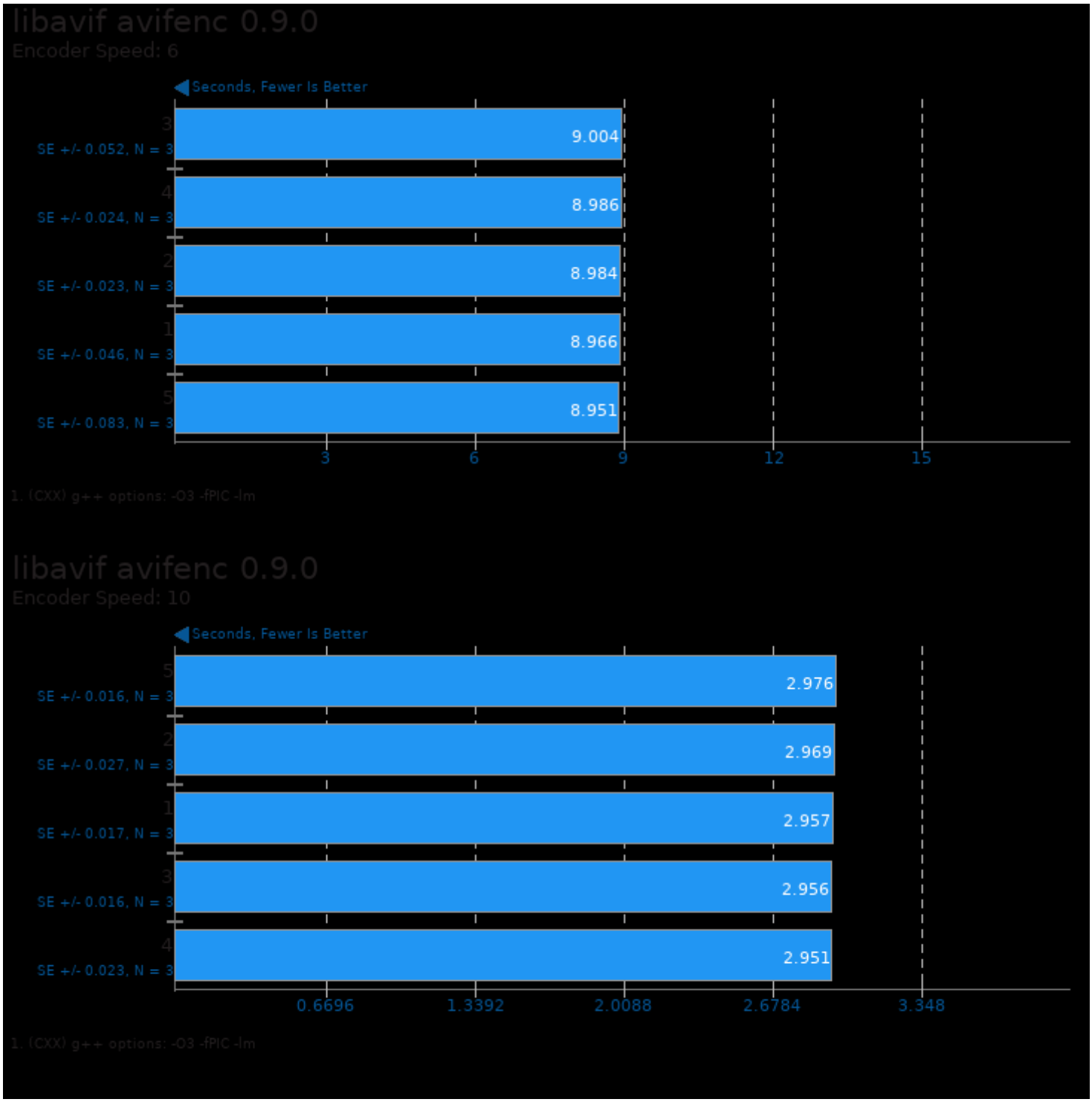
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --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 ondemand (Boost: Enabled) - CPU Microcode: 0xa201009
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

	1	2	3	4	5
libavif avifenc - 0 (sec)	**44.113**	**44.731**	44.276	44.212	44.515
Normalized	100%	98.62%	99.63%	99.78%	99.1%
Standard Deviation	0.7%	0.8%	0.9%	0.8%	0.3%
libavif avifenc - 2 (sec)	23.624	23.647	**23.731**	**23.582**	23.697
Normalized	99.82%	99.73%	99.37%	100%	99.51%
Standard Deviation	0.4%	0.5%	0.5%	0.9%	0.4%
libavif avifenc - 6 (sec)	8.966	8.984	**9.004**	8.986	**8.951**
Normalized	99.83%	99.63%	99.41%	99.61%	100%
Standard Deviation	0.9%	0.4%	1%	0.5%	1.6%
libavif avifenc - 10 (sec)	2.957	2.969	2.956	**2.951**	**2.976**
Normalized	99.8%	99.39%	99.83%	100%	99.16%
Standard Deviation	1%	1.6%	0.9%	1.3%	1%
libavif avifenc - 6, Lossless (sec)	**31.217**	**31.119**	31.206	31.151	31.183
Normalized	99.69%	100%	99.72%	99.9%	99.79%
Standard Deviation	0.5%	0.6%	1.2%	0.1%	0.3%
libavif avifenc - 10, Lossless	4.915	**4.947**	**4.894**	4.931	4.917
Normalized	99.57%	98.93%	100%	99.25%	99.53%
Standard Deviation	0.8%	0.5%	1.8%	0.8%	1.5%

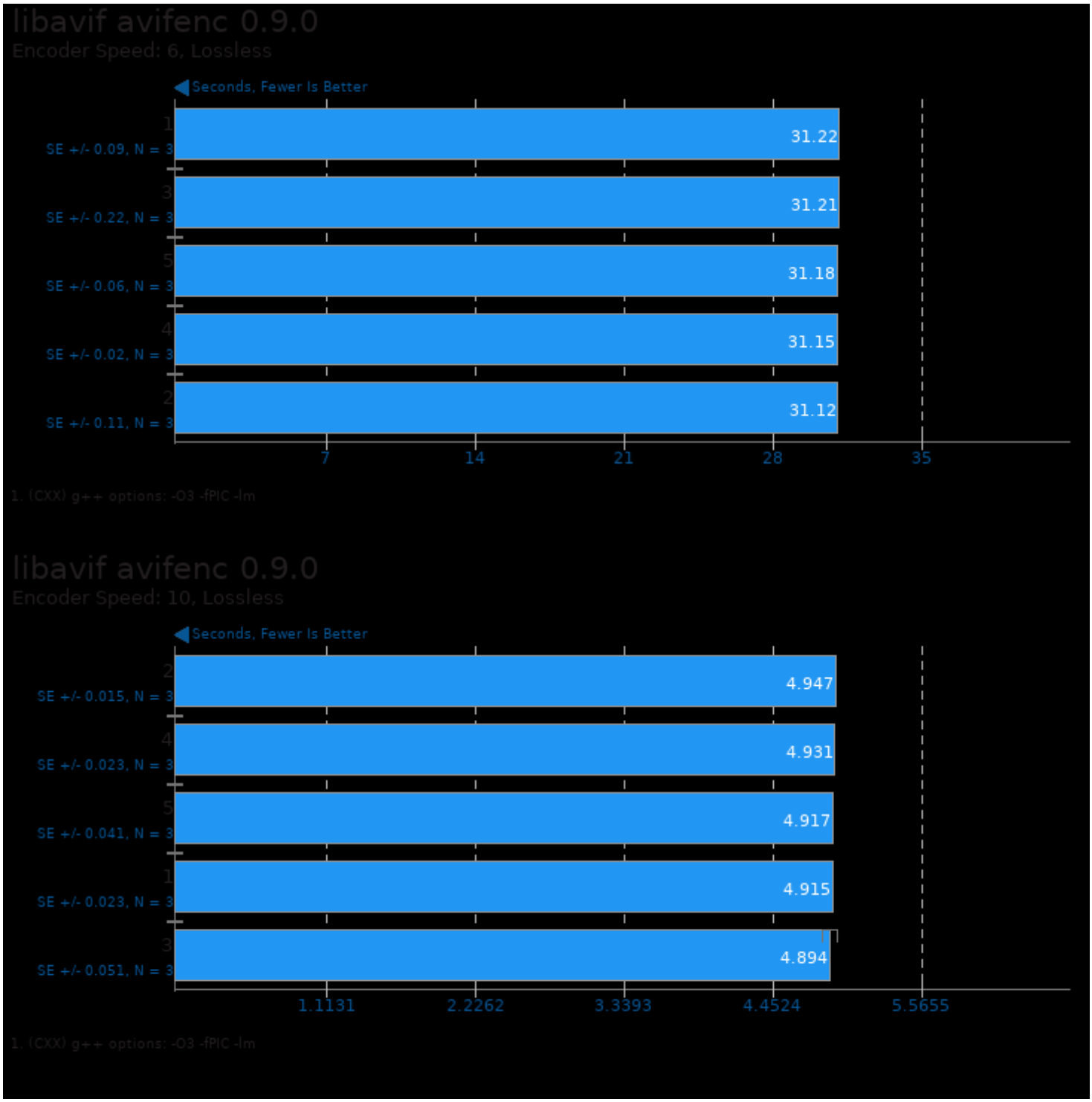
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