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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 45% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.003x the speed of the slowest (3). 2 was 1x the speed of 1, 4 was 0.997x the speed of 2, 3 was 1x the speed of 4.

Test Systems:

1

2

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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

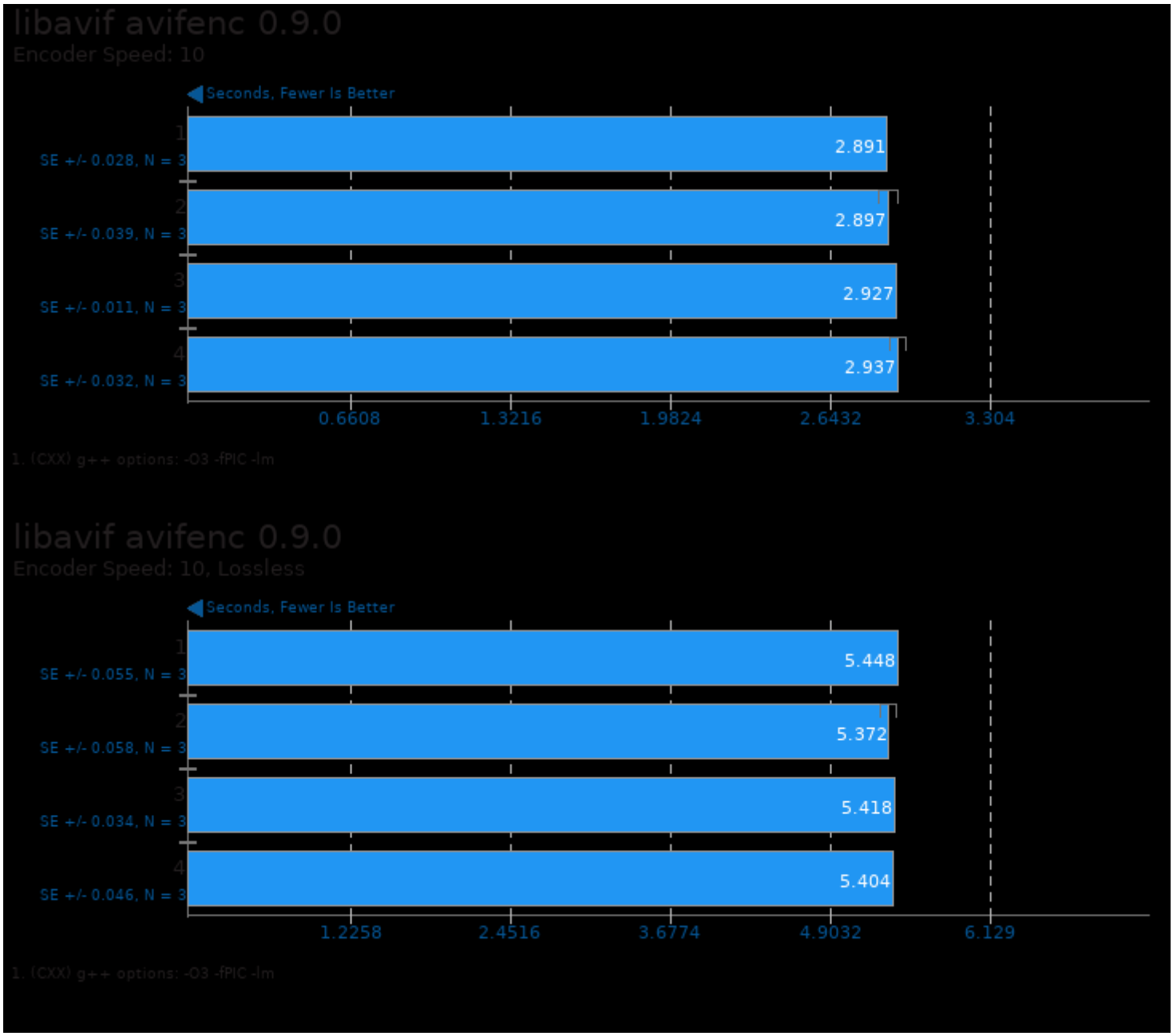
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --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 (sec)	**2.891**	2.897	2.927	**2.937**
Normalized	100%	99.79%	98.77%	98.43%
Standard Deviation	1.6%	2.3%	0.7%	1.9%
libavif avifenc - 10, Lossless (sec)	**5.448**	**5.372**	5.418	5.404
Normalized	98.6%	100%	99.15%	99.41%
Standard Deviation	1.7%	1.9%	1.1%	1.5%
libavif avifenc - 2 (sec)	**28.810**	**29.169**	29.146	29.023
Normalized	100%	98.77%	98.85%	99.27%
Standard Deviation	1.5%	1.4%	0.8%	0.6%
libavif avifenc - 6 (sec)	**10.488**	10.527	**10.617**	10.575
Normalized	100%	99.63%	98.78%	99.18%
Standard Deviation	0.6%	1.7%	0.1%	1.4%
libavif avifenc - 6, Lossless (sec)	43.401	**43.033**	43.061	**43.544**
Normalized	99.15%	100%	99.93%	98.83%
Standard Deviation	0.9%	0.5%	0.1%	0.6%
libavif avifenc - 0 (sec)	**54.820**	**55.423**	55.398	55.064
Normalized	100%	98.91%	98.96%	99.56%
Standard Deviation	0.7%	0.3%	0.7%	0.3%
Blender - Classroom - CPU-Only (sec)	**301.96**	301.55	**301.04**	301.83
Normalized	99.7%	99.83%	100%	99.74%
Standard Deviation	0.2%	0%	0.2%	0.3%
Blender - BMW27 - CPU-Only (sec)	**105.16**	**104.92**	104.94	104.95
Normalized	99.77%	100%	99.98%	99.97%
Standard Deviation	0.2%	0.3%	0.3%	0.2%
Blender - Fishy Cat - CPU-Only (sec)	**140.00**	**140.19**	140.11	140.10
Normalized	100%	99.86%	99.92%	99.93%
Standard Deviation	0.1%	0.1%	0%	0.2%

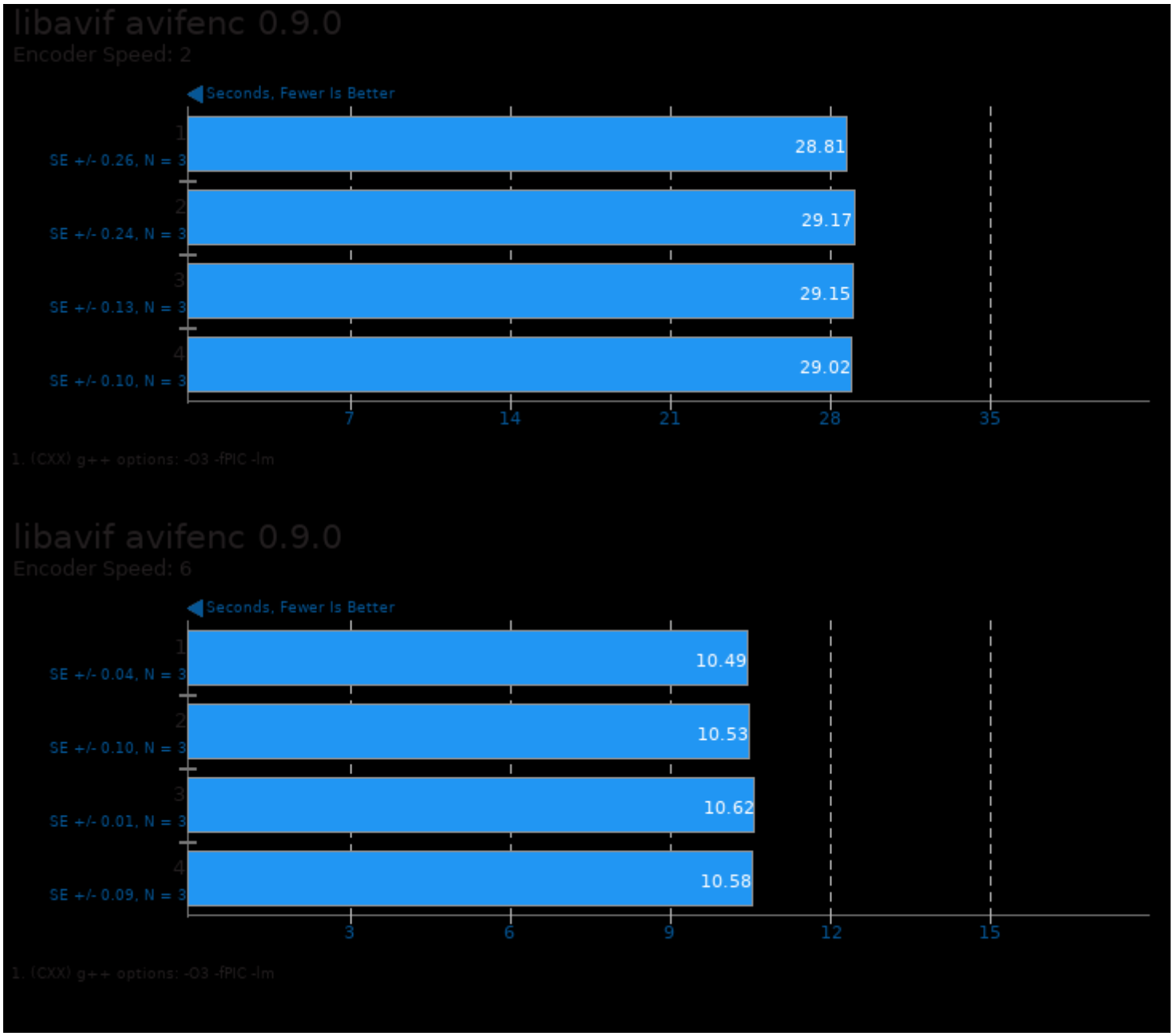
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Blender - Barbershop - CPU-Only	**431.87**	**431.32**	431.40
Normalized	99.87%	100%	99.98%
Standard Deviation	0.2%	0.1%	0.1%
Blender - Pabellon Barcelona - CPU-Only (sec)	335.48	**335.41**	**335.57**
Normalized	99.98%	100%	99.95%
Standard Deviation	0.2%	0.2%	0.2%

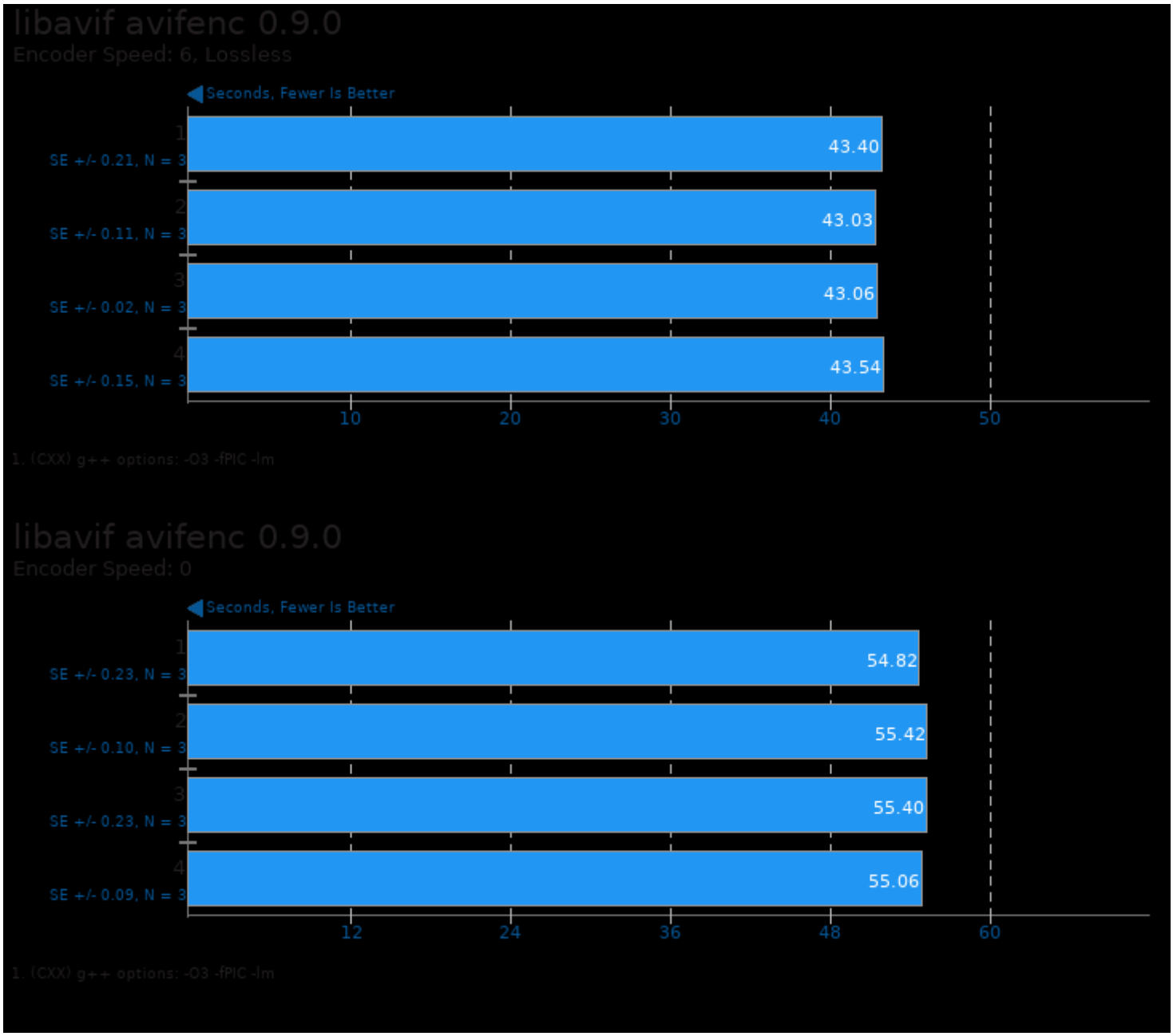
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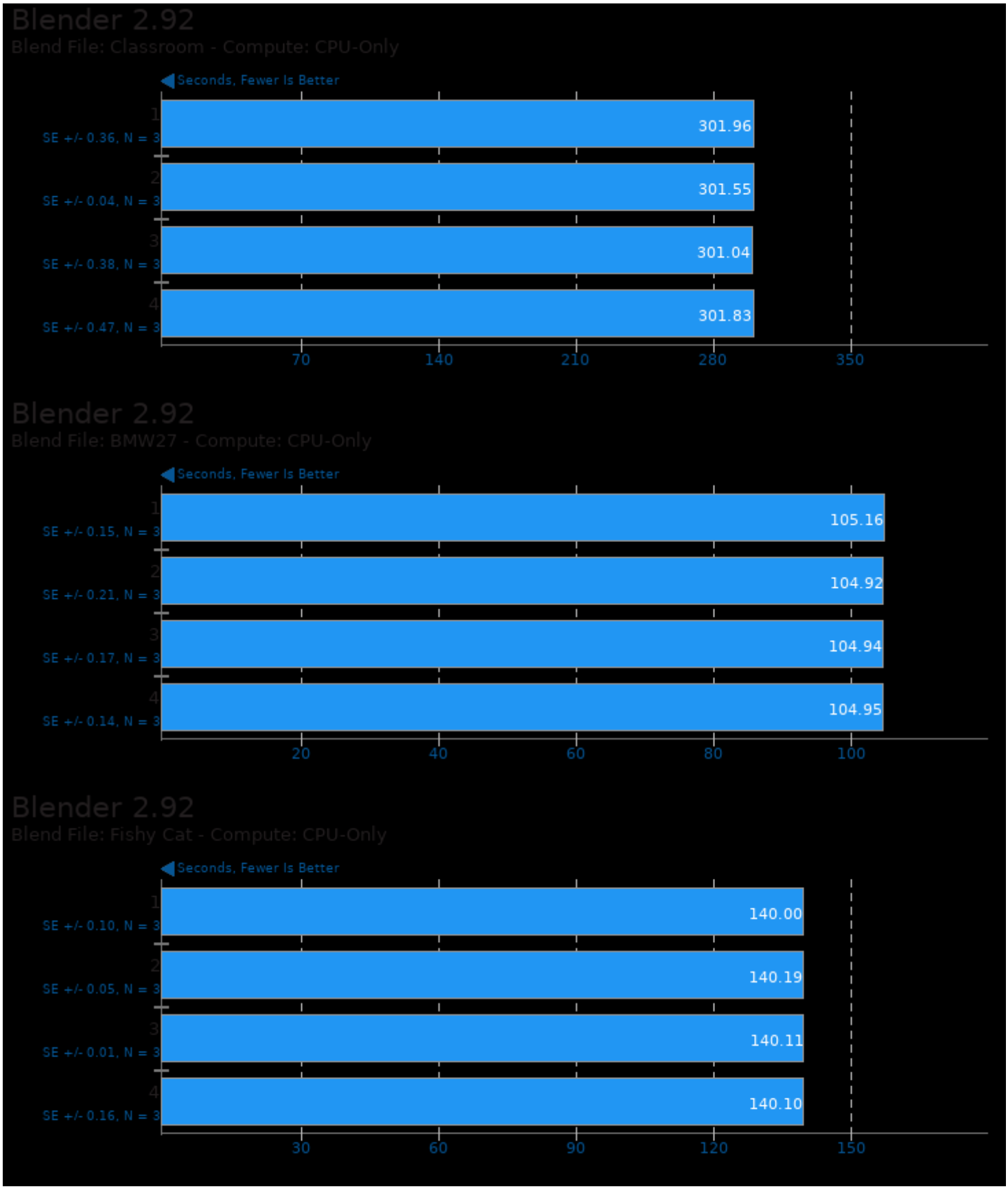
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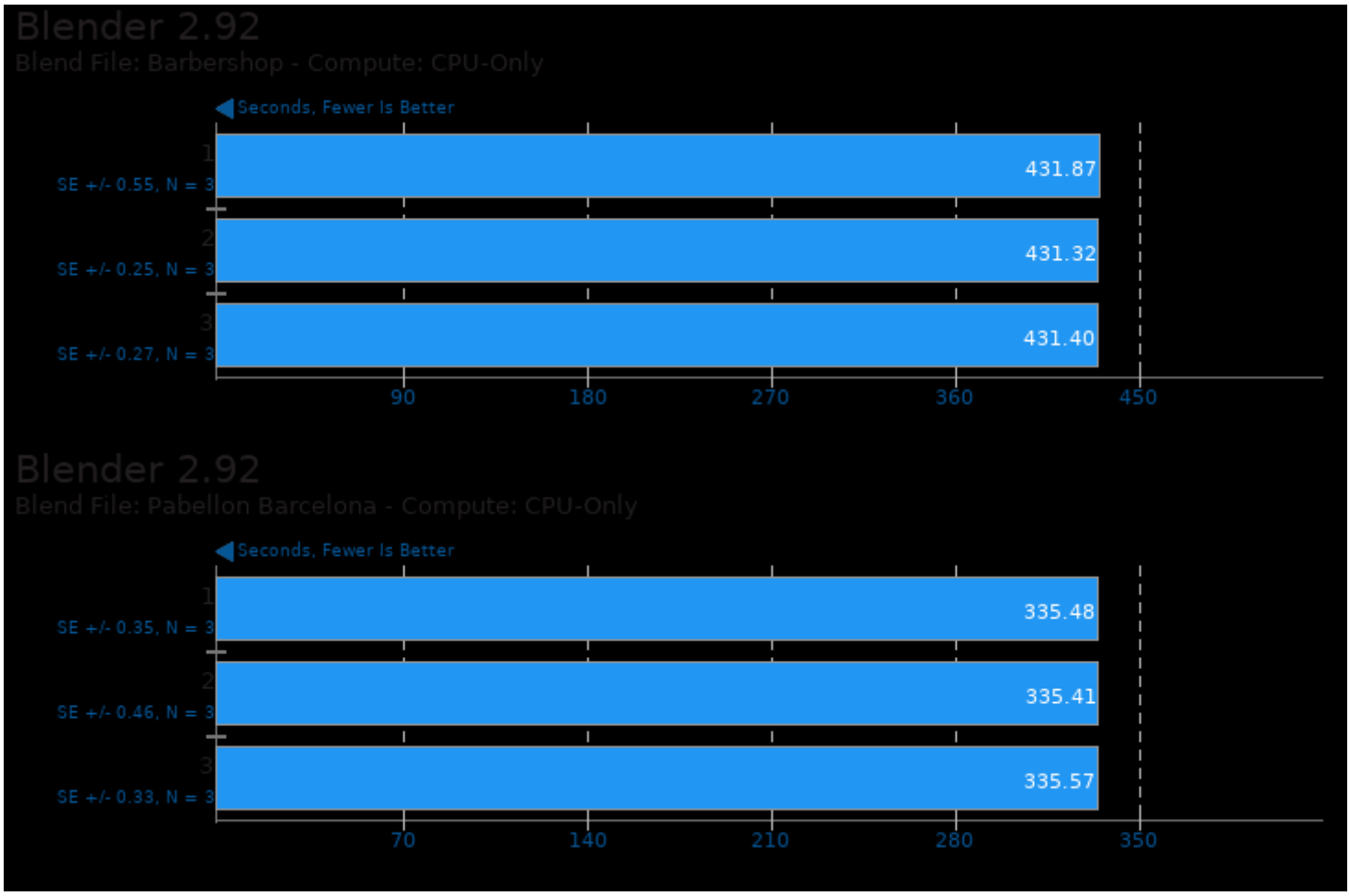
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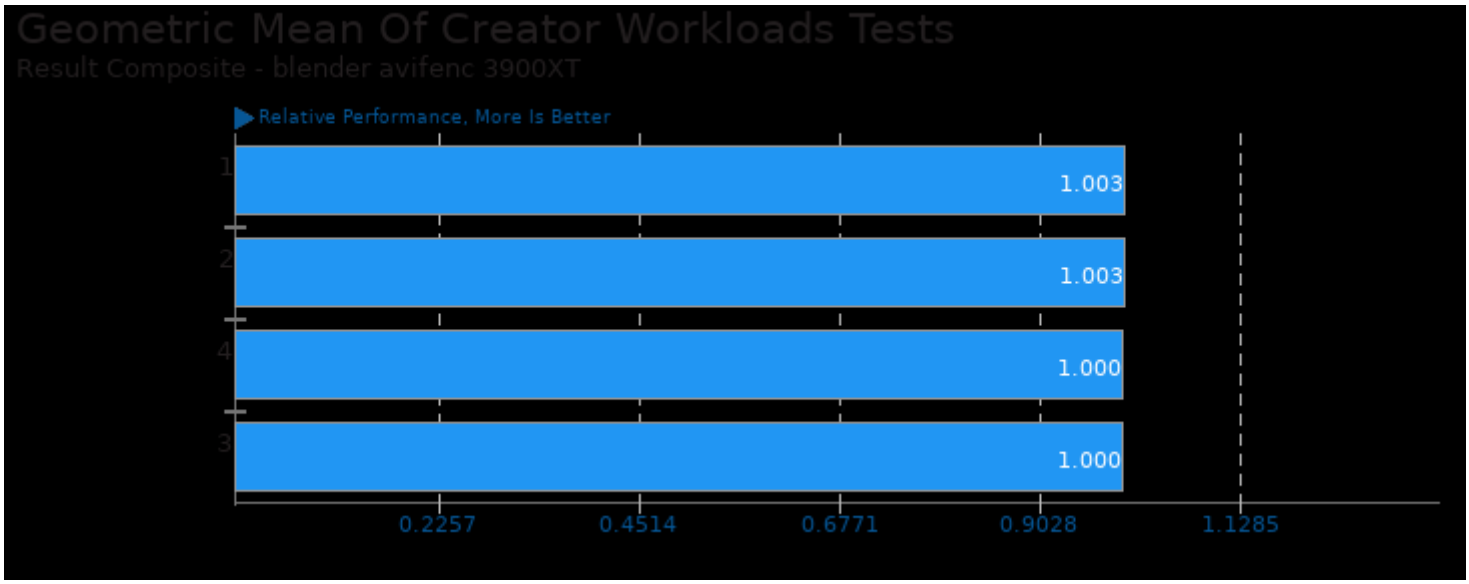


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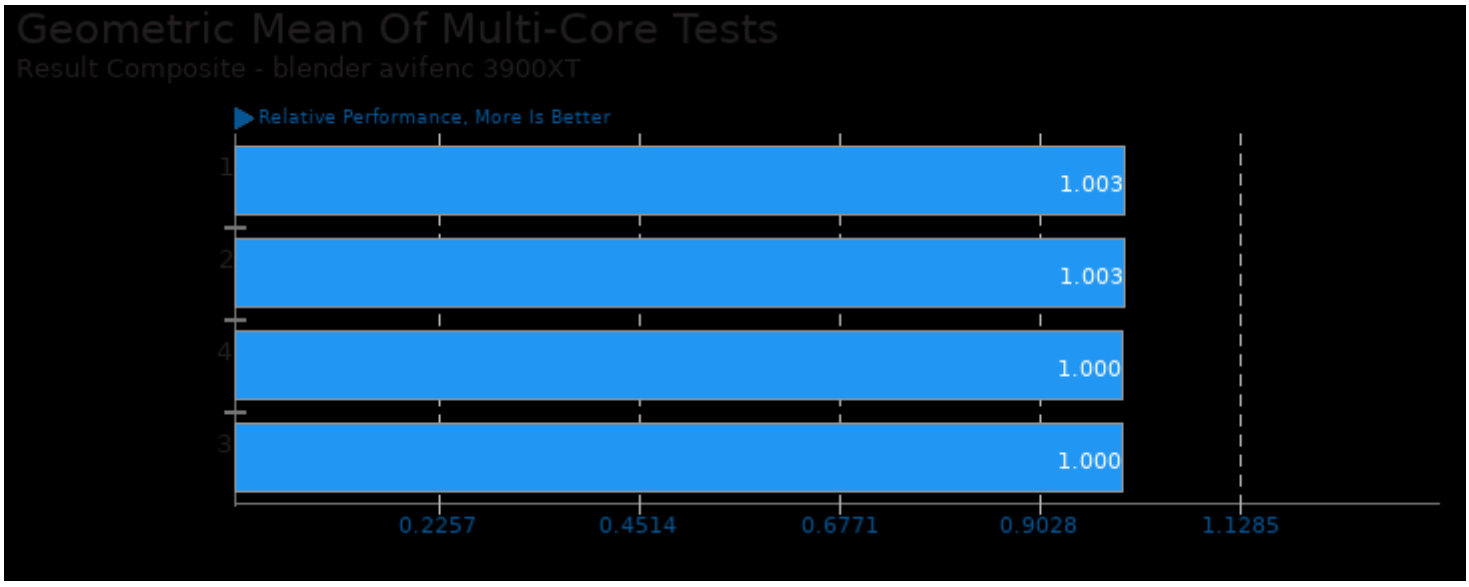


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These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/blender and pts/avifenc



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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 19:05.