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AMD Ryzen 7 4800U testing with a ASRock 4X4-4000 (P1.30Q BIOS) and AMD Renoir 512MB on Ubuntu 21.10 via the Phoronix Test Suite.

Automated Executive Summary

A had the most wins, coming in first place for 55% of the tests.

Based on the geometric mean of all complete results, the fastest (A) was 1.017x the speed of the slowest (E). A was 1x the speed of C, B was 0.996x the speed of A, D was 0.992x the speed of B, E was 0.995x the speed of D.

Test Systems:

A

B

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C

D

E

Processor: AMD Ryzen 7 4800U @ 1.80GHz (8 Cores / 16 Threads), Motherboard: ASRock 4X4-4000 (P1.30Q BIOS), Chipset: AMD Renoir/Cezanne, Memory: 16GB, Disk: 512GB TS512GMTS952T-I, Graphics: AMD Renoir 512MB (1750/400MHz), Audio: AMD Renoir Radeon HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8125 2.5GbE + Realtek RTL8111/8168/8411 + Intel 8265 / 8275

OS: Ubuntu 21.10, Kernel: 5.16.0-051600rc8daily20220108-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.0.0-devel (git-9cb9101 2022-01-08 impish-oibaf-ppa) (LLVM 13.0.0 DRM 3.44), Vulkan: 1.2.199, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

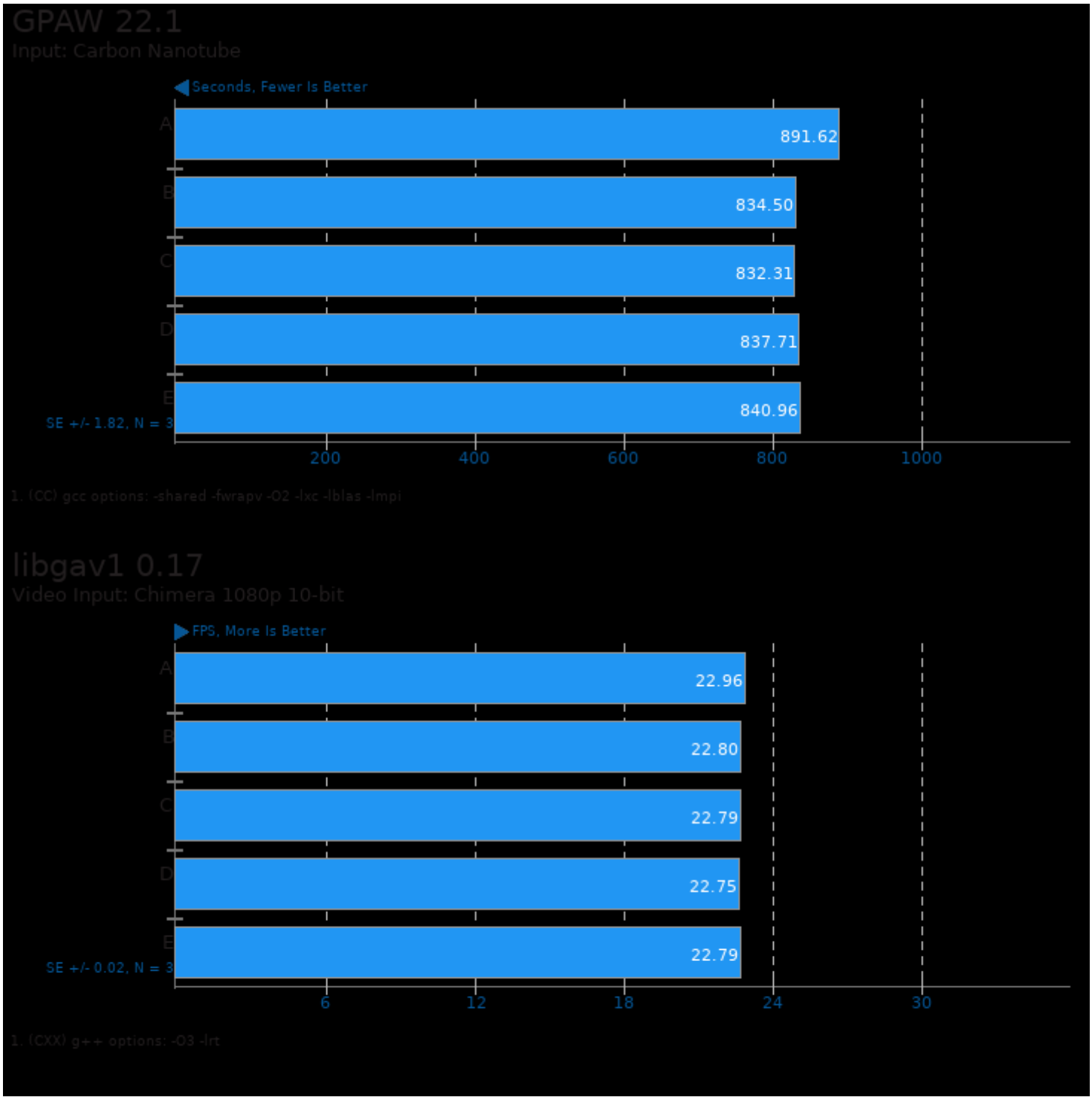
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-gcn/usr --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 schedutil (Boost: Enabled) - CPU Microcode: 0x8600103
Python Notes: Python 3.9.7
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C	D	E
GPAW - Carbon Nanotube (sec)	**891.615**	834.498	**832.309**	837.706	840.955
Normalized	93.35%	99.74%	100%	99.36%	98.97%
Standard Deviation					0.4%
libgav1 - C.1.1.b (FPS)	**22.96**	22.8	22.79	**22.75**	22.79
Normalized	100%	99.3%	99.26%	99.09%	99.26%
Standard Deviation					0.2%
Tachyon - Total Time (sec)	**184.4899**	196.8756	197.1793	208.2932	**215.1510**
Normalized	100%	93.71%	93.56%	88.57%	85.75%
Standard Deviation					1.4%
Timed Linux Kernel Compilation - defconfig (sec)	150.897	150.074	**149.902**	**152.124**	151.716
Normalized	99.34%	99.89%	100%	98.54%	98.8%
Standard Deviation					1.2%
libgav1 - Chimera 1080p (FPS)	73.76	73.21	**74.7**	**72.79**	73.60
Normalized	98.74%	98.01%	100%	97.44%	98.53%
Standard Deviation					0.2%
libgav1 - Summer Nature 4K	30.04	29.79	**30.07**	30.05	**29.72**
Normalized	99.9%	99.07%	100%	99.93%	98.84%
Standard Deviation					0.2%
libgav1 - S.N.1 (FPS)	**94.88**	94.64	94.36	**94.02**	94.49
Normalized	100%	99.75%	99.45%	99.09%	99.59%
Standard Deviation					0.2%

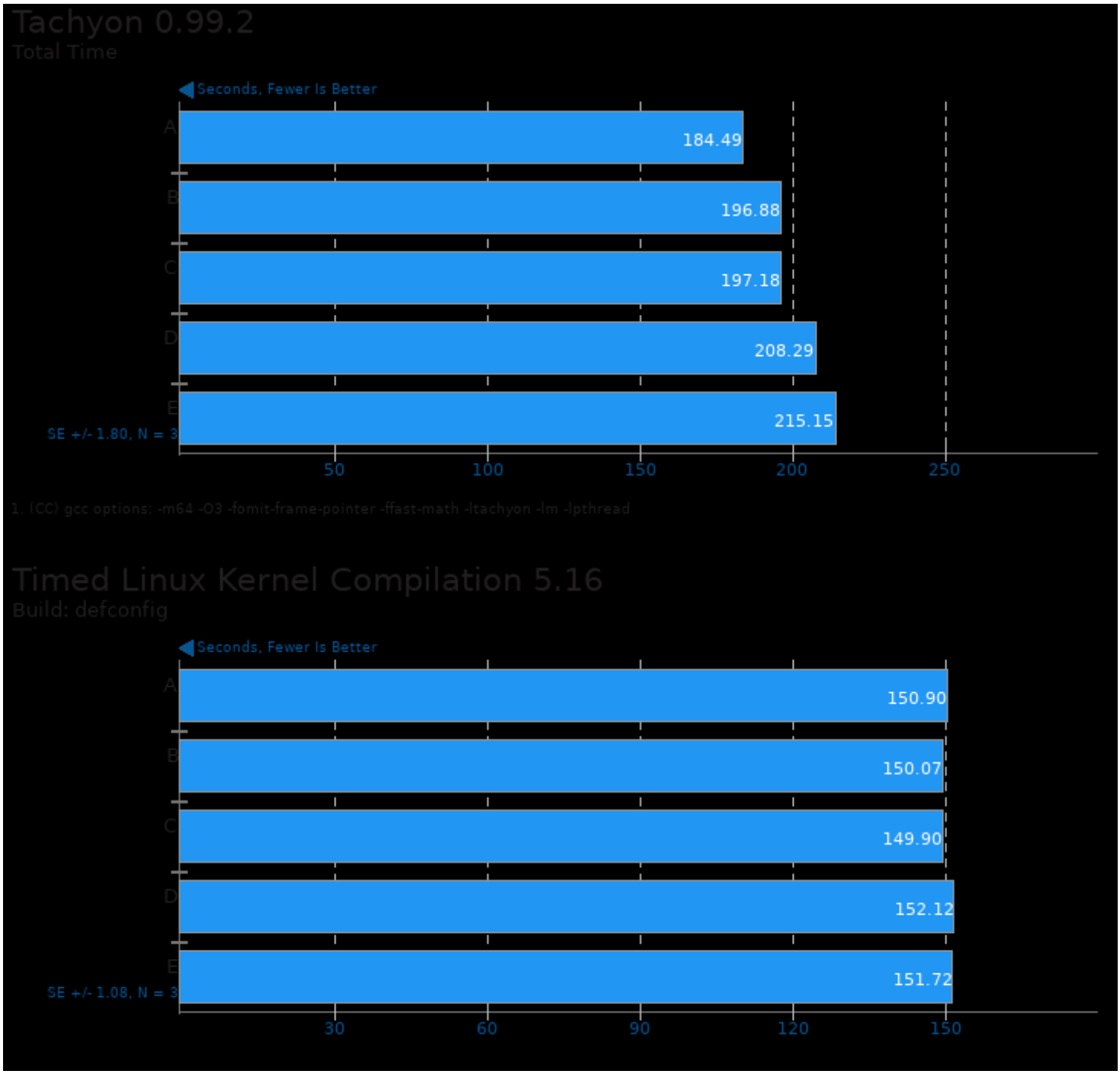
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Google Draco - Church Facade (ms)	**8983**	9034	8986	9026	**9100**
Normalized	100%	99.44%	99.97%	99.52%	98.71%
Standard Deviation					0.1%
Google Draco - Lion (ms)	**5988**	6054	6045	6007	**6059**
Normalized	100%	98.91%	99.06%	99.68%	98.83%
Standard Deviation					0.3%

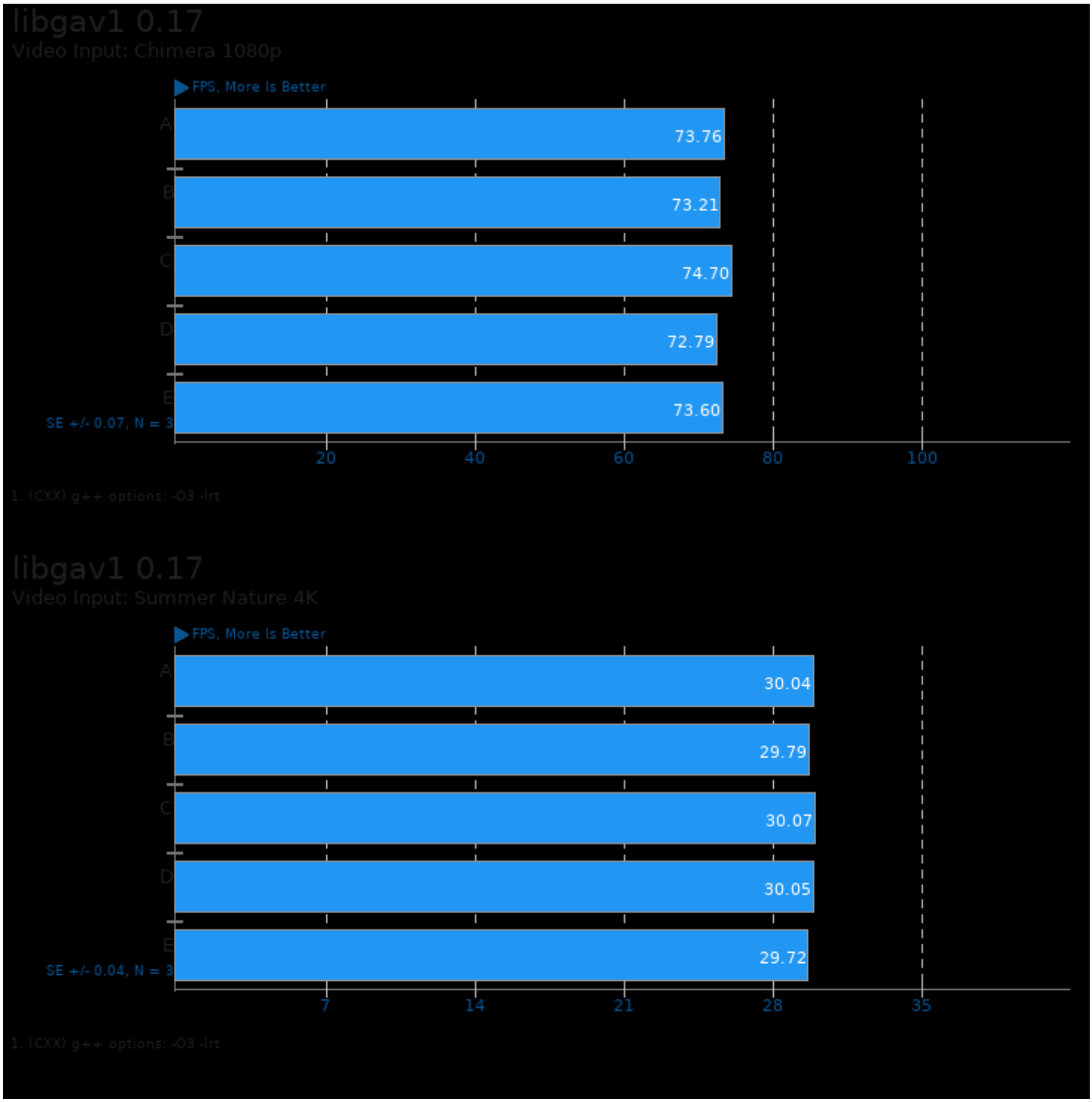
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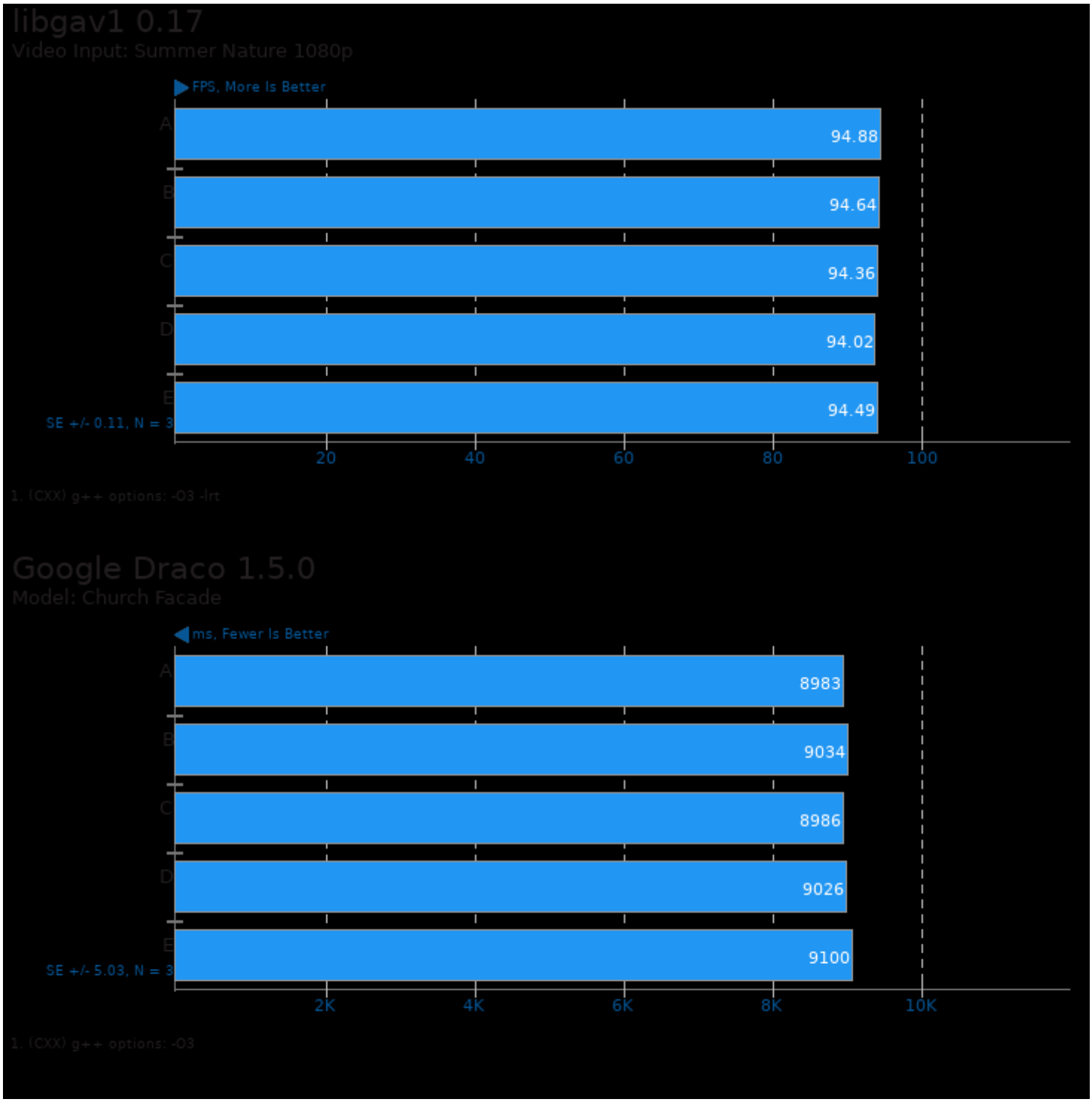


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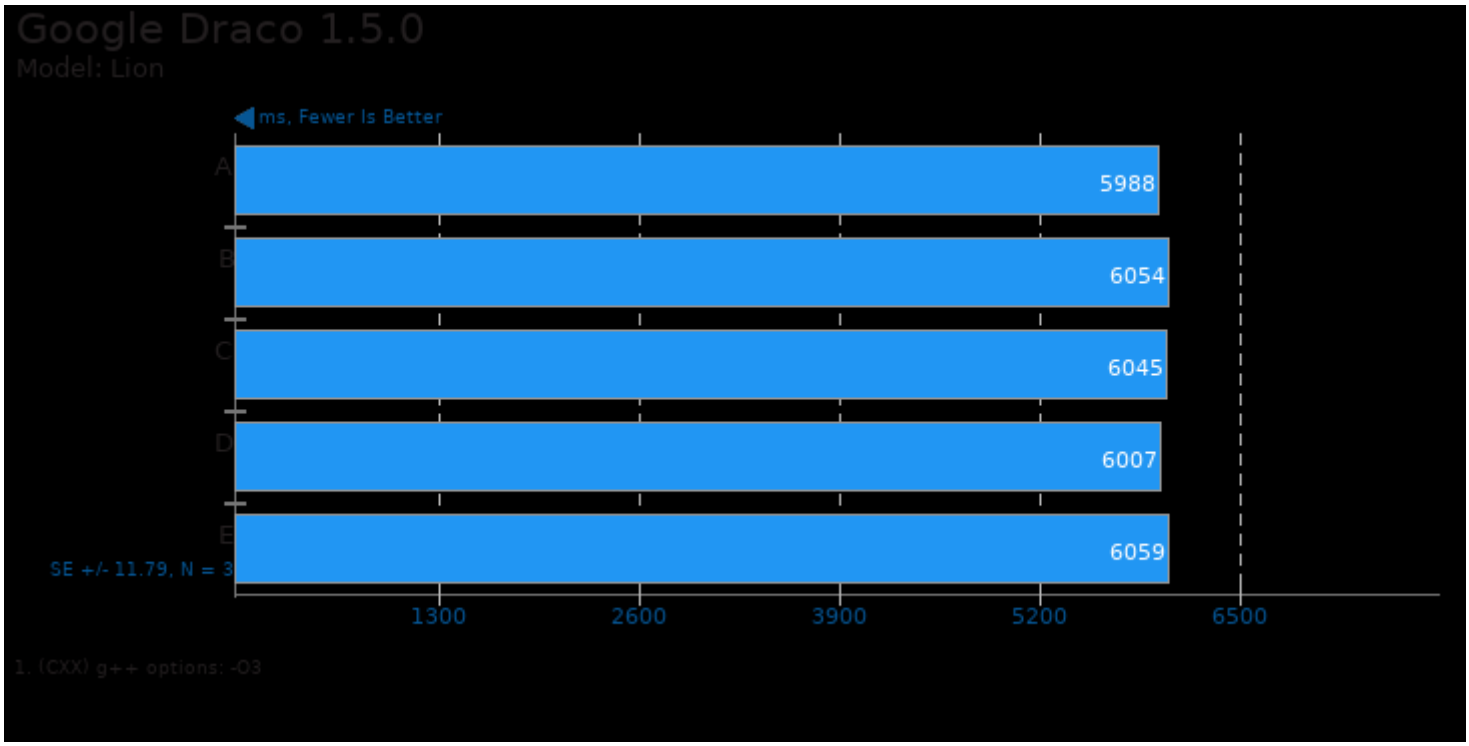


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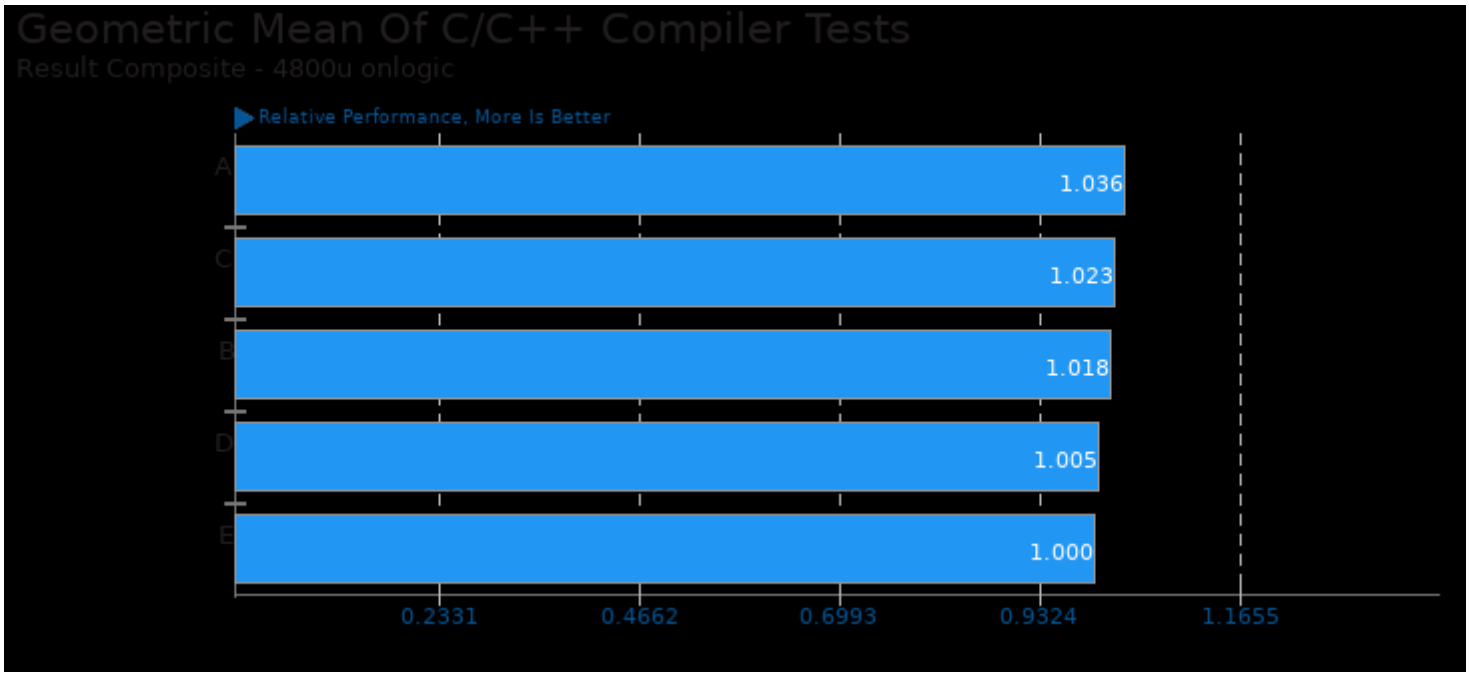

libgav1 0.17
Video Input: Summer Nature 1080p
FPS, More Is Better
A
B
C
D
E
94.88
94.64
94.36
94.02
94.49
SE +/- 0.11, N = 3
20
40
60
80
100
1. (CXX) g++ options: -O3 -lrt
Google Draco 1.5.0
Model: Church Facade
ms, Fewer Is Better
A
B
C
D
E
8983
9034
8986
9026
9100
SE +/- 5.03, N = 3
2K
4K
6K
8K
10K
1. (CXX) g++ options: -O3

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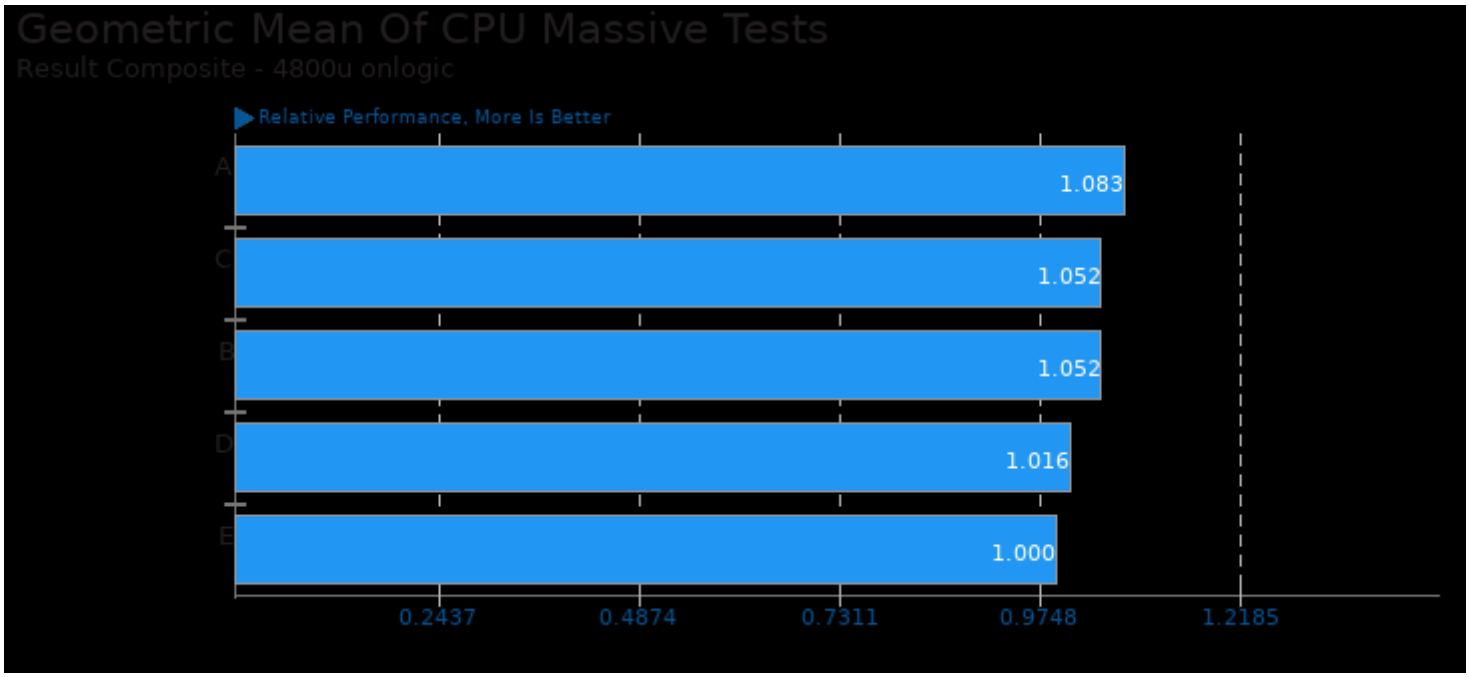


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These geometric means are based upon test groupings / test suites for this result file.

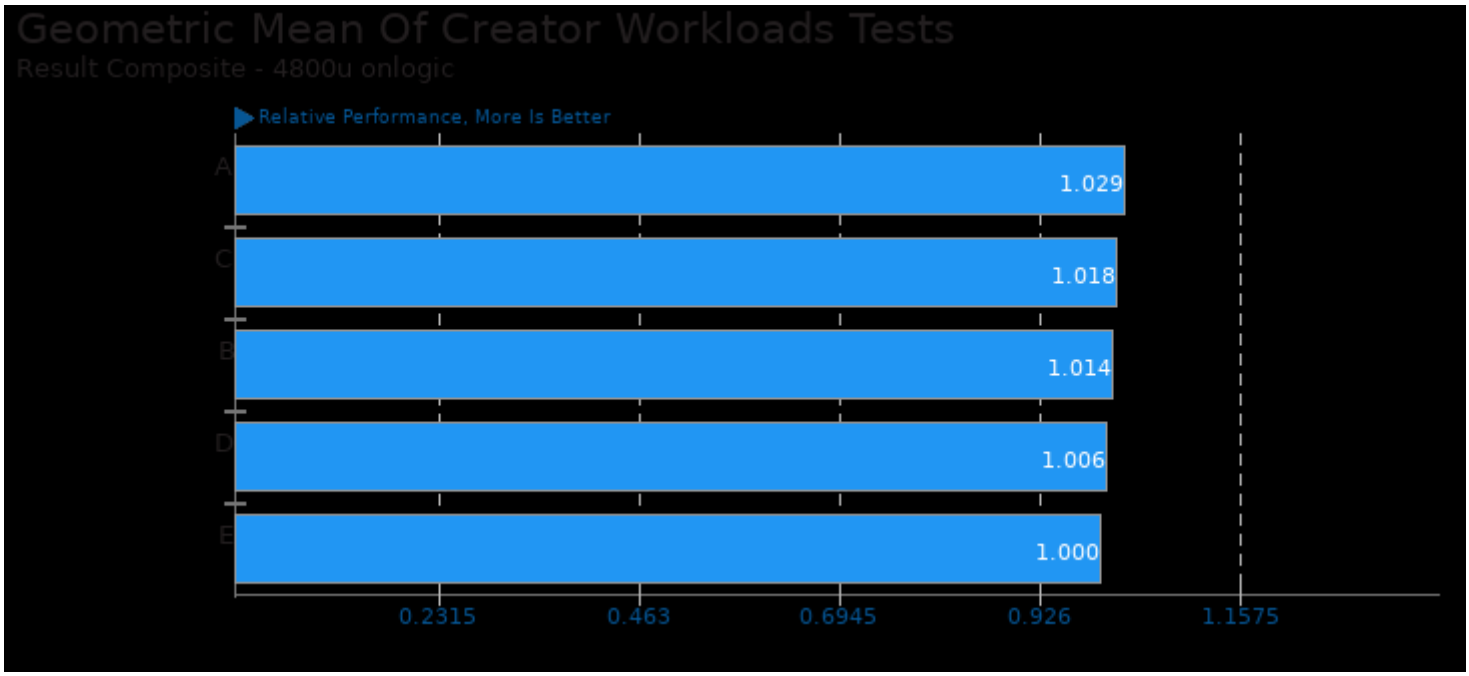


Geometric mean based upon tests: pts/libgav1 and pts/tachyon

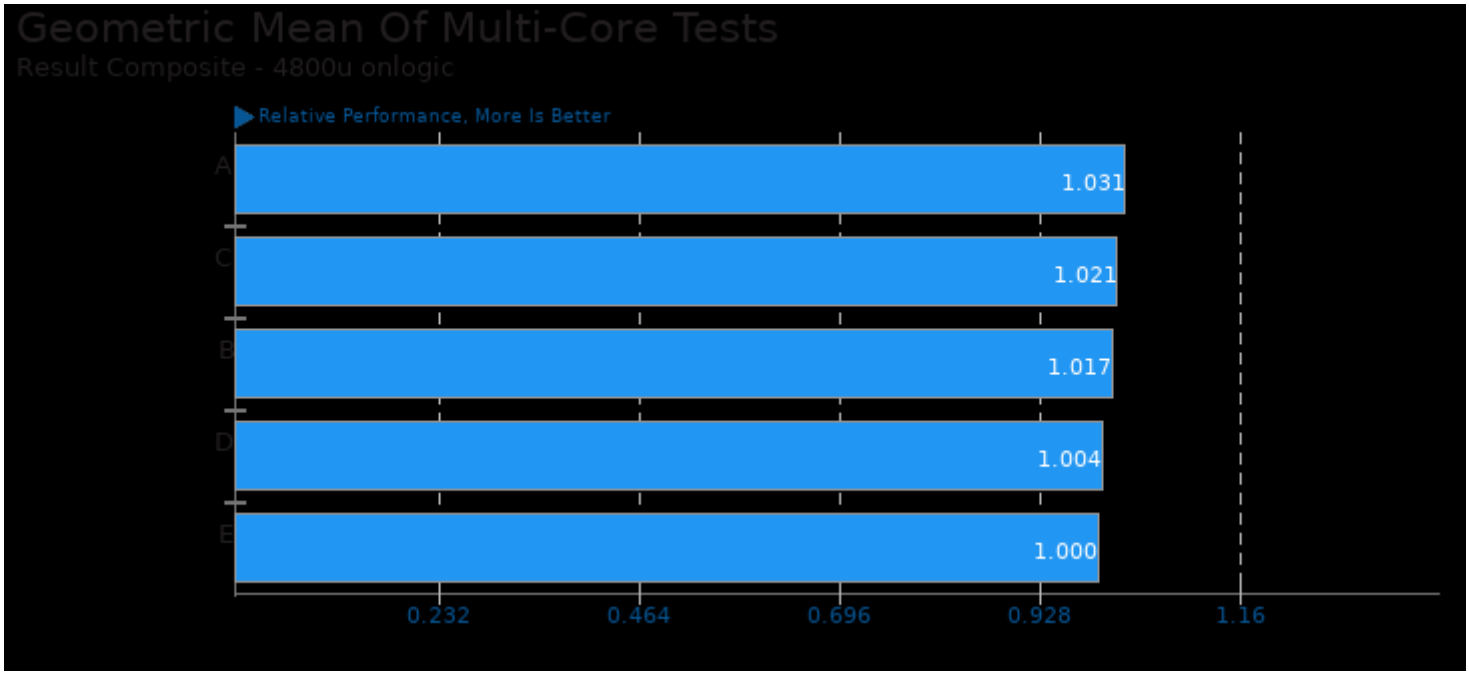


Geometric mean based upon tests: pts/build-linux-kernel and pts/tachyon

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Geometric mean based upon tests: pts/tachyon, pts/libgav1 and pts/draco



Geometric mean based upon tests: pts/tachyon, pts/libgav1 and pts/build-linux-kernel

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:30.