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AOCC 3.1 Build Times

AMD EPYC 7543 32-Core testing with a TYAN S8036GM2NE-LE (V2.00.B21 BIOS) and ASPEED on Ubuntu 21.04 via the Phoronix Test Suite.

Automated Executive Summary

AOCC 3.1 had the most wins, coming in first place for 62% of the tests.

Based on the geometric mean of all complete results, the fastest (AOCC 3.1) was 1.014x the speed of the slowest (AOCC 3.0).

Test Systems:

AOCC 3.0

AOCC 3.1

Processor: AMD EPYC 7543 32-Core @ 2.80GHz (32 Cores / 64 Threads), Motherboard: TYAN S8036GM2NE-LE

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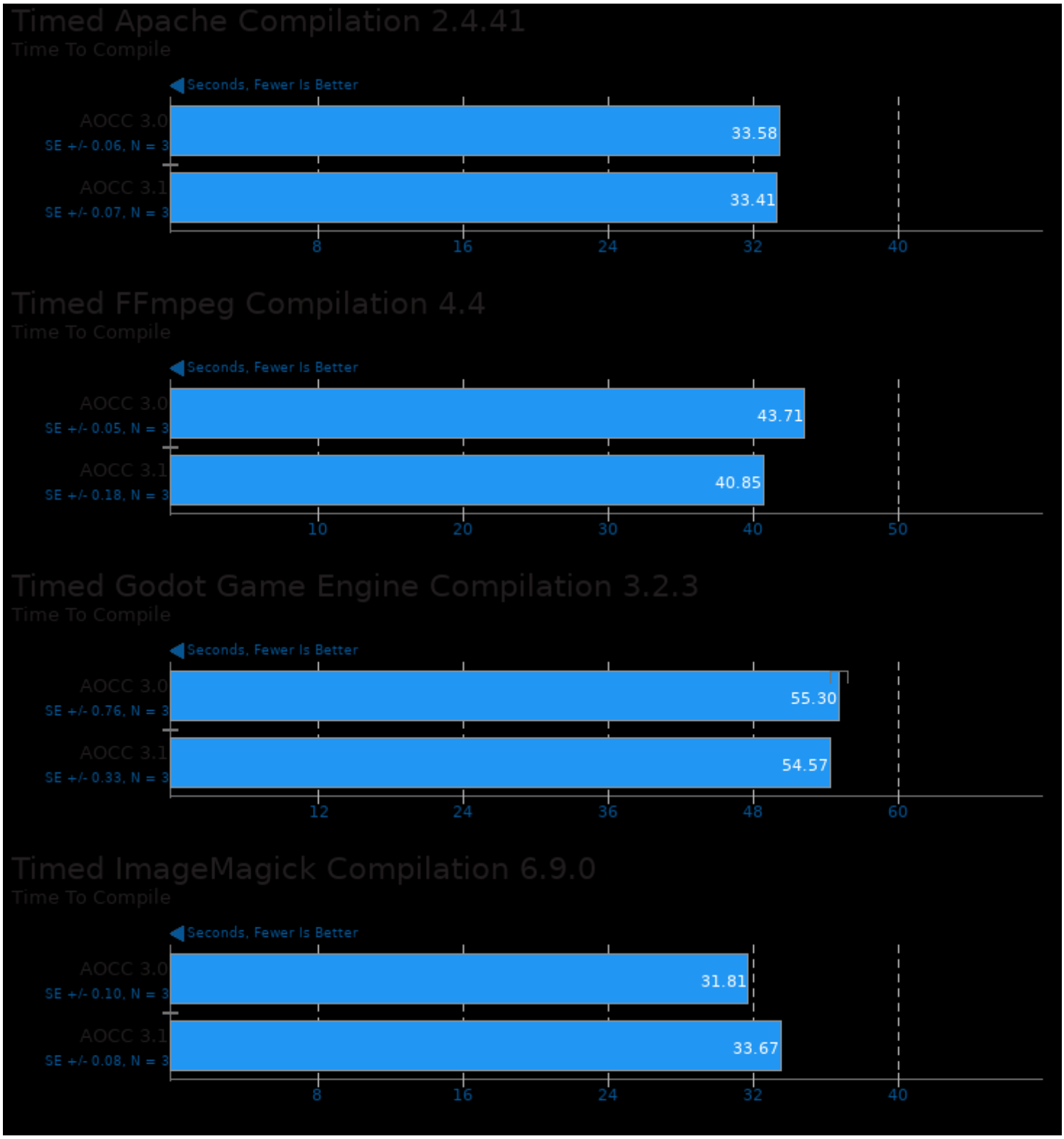
(V2.00.B21 BIOS), Chipset: AMD Starship/Matisse, Memory: 64GB, Disk: 1000GB Corsair Force MP600, Graphics: ASPEED, Monitor: VE228, Network: 2 x Broadcom NetXtreme BCM5720 2-port PCIe

OS: Ubuntu 21.04, Kernel: 5.11.0-25-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server, Compiler: Clang 12.0.0, File-System: ext4, Screen Resolution: 1920x1080

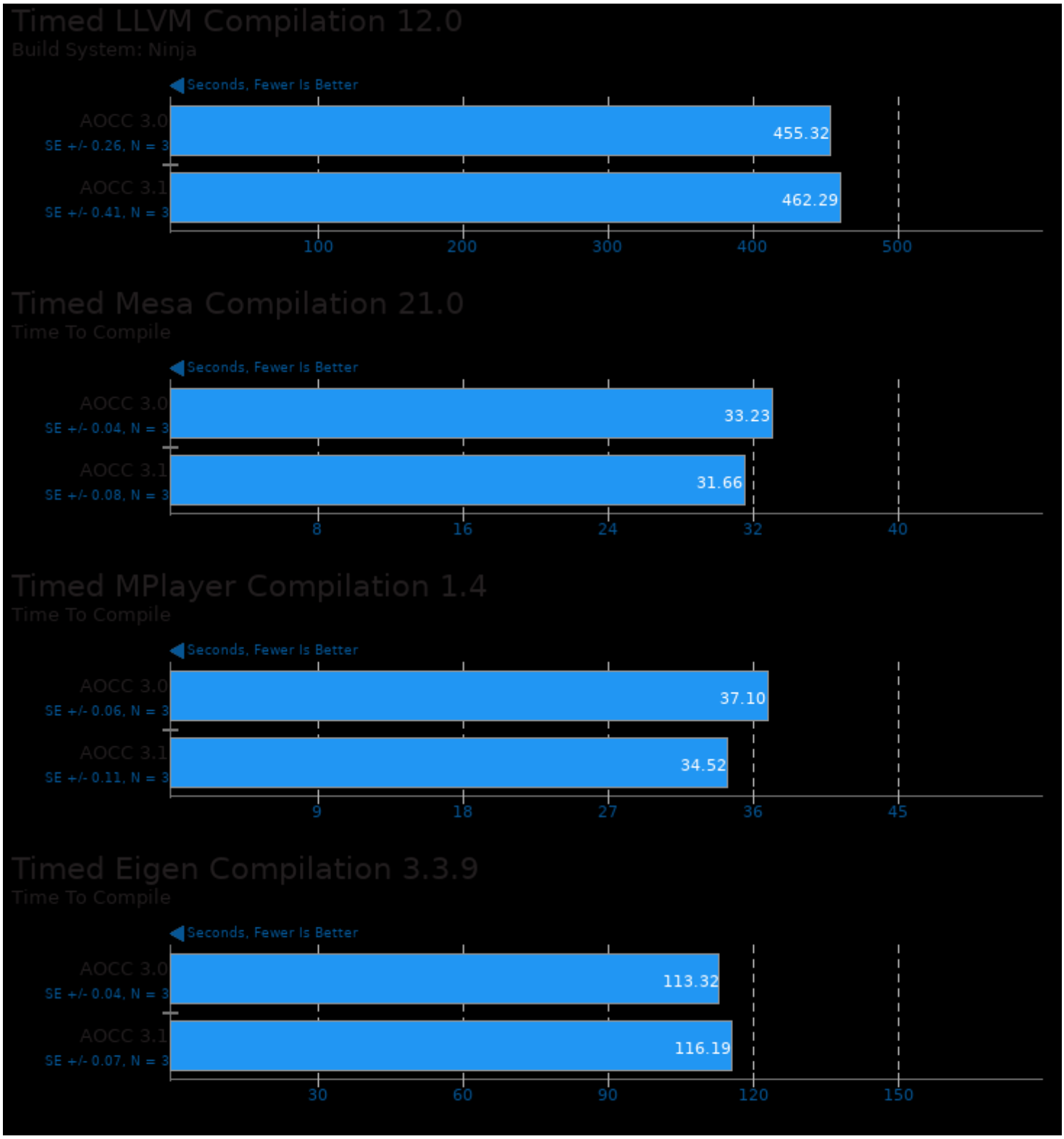
Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: CXXFLAGS="-O3 -march=znver3" CFLAGS="-O3 -march=znver3"
Compiler Notes: Optimized build with assertions; Default target: x86_64-unknown-linux-gnu; Host CPU: znver3
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa001119
Python Notes: Python 3.9.5
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

	AOCC 3.0	AOCC 3.1
Timed Apache Compilation - Time To Compile (sec)	**33.575**	**33.406**
Normalized	99.5%	100%
Standard Deviation	0.3%	0.4%
Timed FFmpeg Compilation - Time To Compile (sec)	**43.713**	**40.851**
Normalized	93.45%	100%
Standard Deviation	0.2%	0.8%
Timed Godot Game Engine Compilation - Time To Compile (sec)	**55.296**	**54.569**
Normalized	98.69%	100%
Standard Deviation	2.4%	1%
Timed ImageMagick Compilation - Time To Compile	**31.809**	**33.672**
Normalized	100%	94.47%
Standard Deviation	0.5%	0.4%
Timed LLVM Compilation - Ninja (sec)	**455.317**	**462.293**
Normalized	100%	98.49%
Standard Deviation	0.1%	0.2%
Timed Mesa Compilation - Time To Compile (sec)	**33.234**	**31.656**
Normalized	95.25%	100%
Standard Deviation	0.2%	0.4%
Timed MPlayer Compilation - Time To Compile (sec)	**37.098**	**34.518**
Normalized	93.05%	100%
Standard Deviation	0.3%	0.5%
Timed Eigen Compilation - Time To Compile (sec)	**113.323**	**116.185**
Normalized	100%	97.54%
Standard Deviation	0.1%	0.1%
Geometric Mean Of All Test Results - Result Composite - A.3.1.B.T (Geometric Mean)	**1.671**	**1.694**
Normalized	98.64%	100%

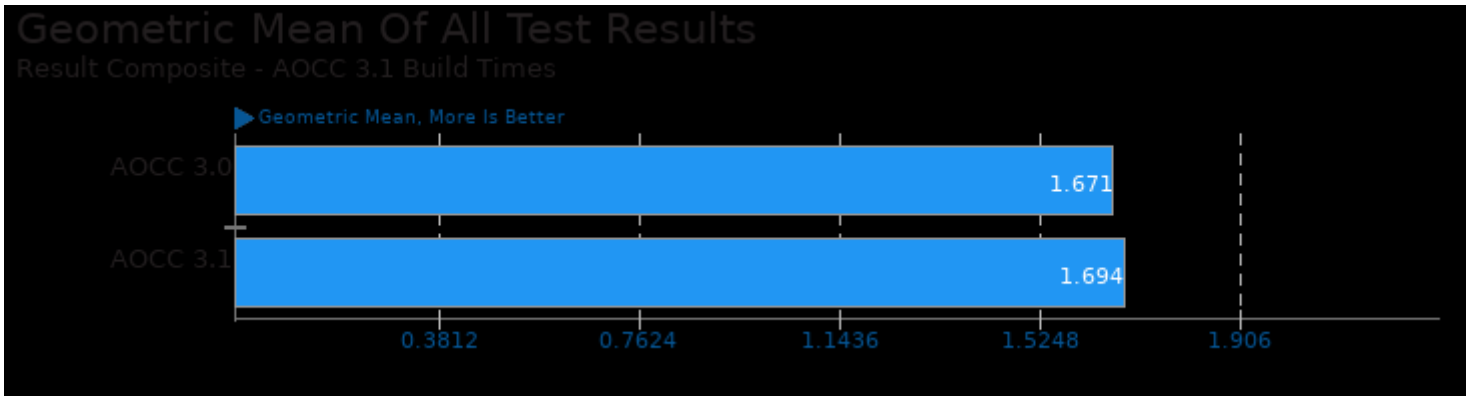
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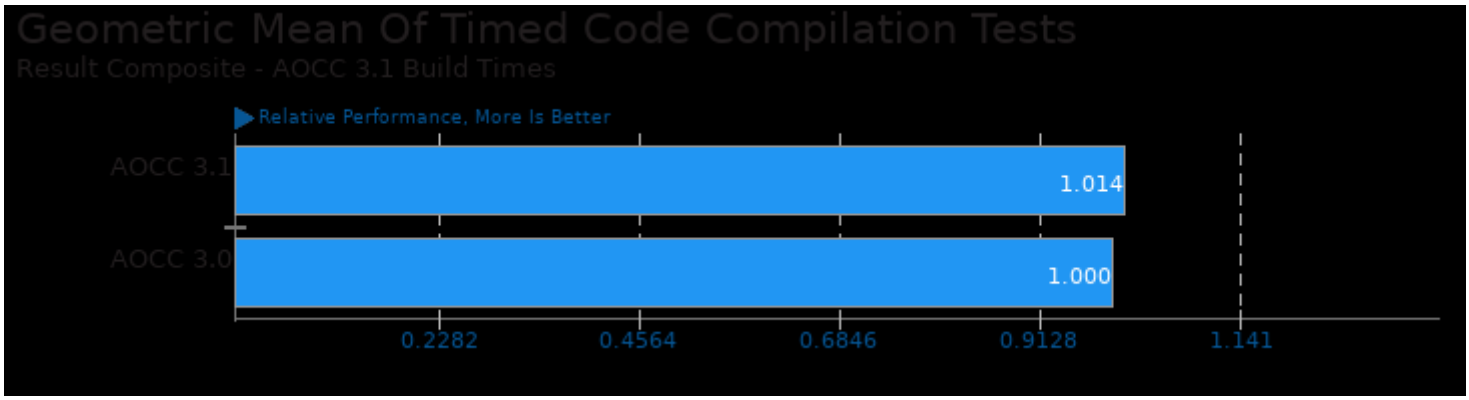


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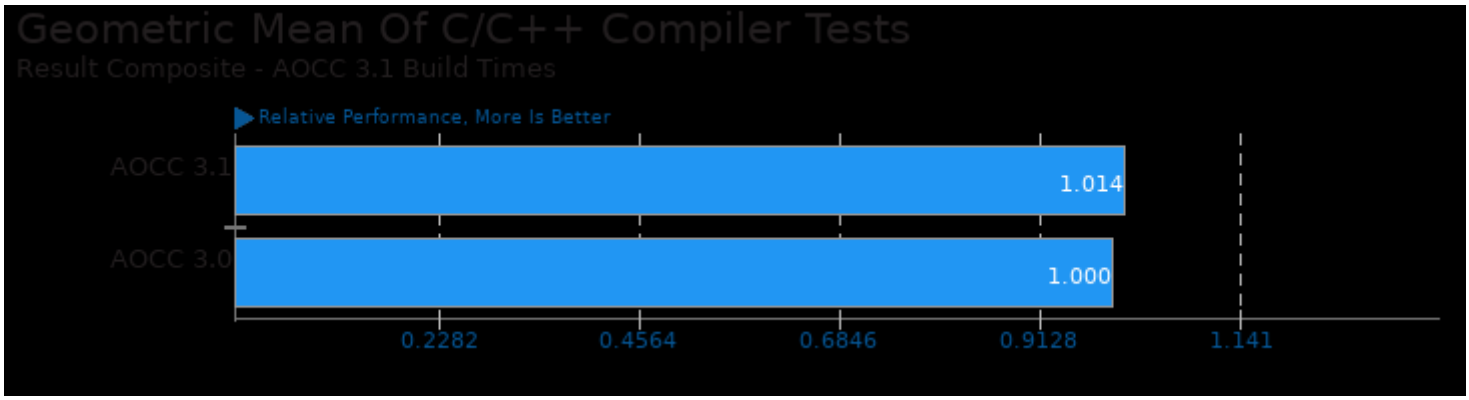


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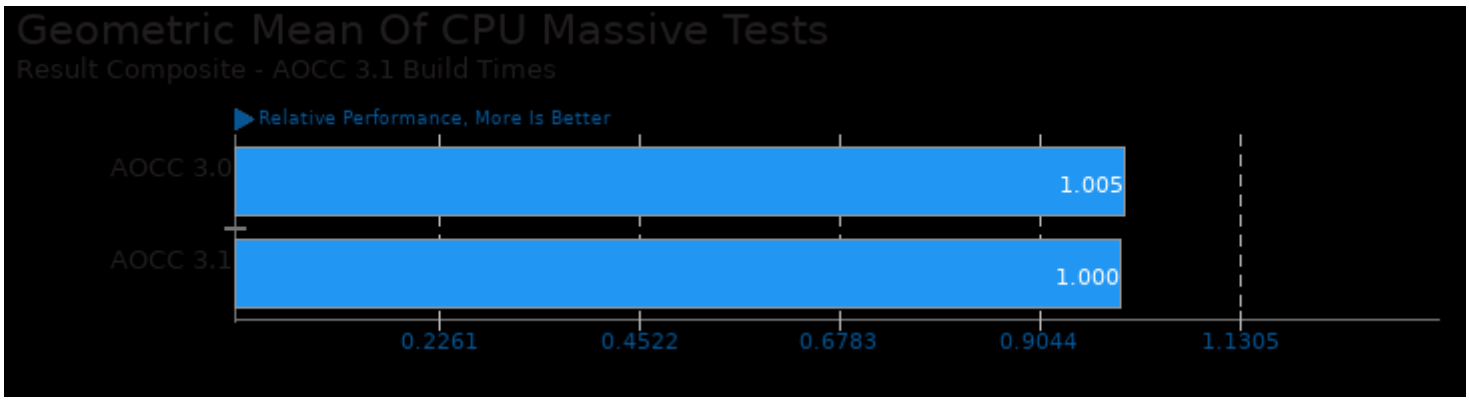
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/build-apache, pts/build-eigen, pts/build-imagemagick, pts/build-llvm, pts/build-ffmpeg, pts/build-mplayer, pts/build-godot and pts/build-mesa

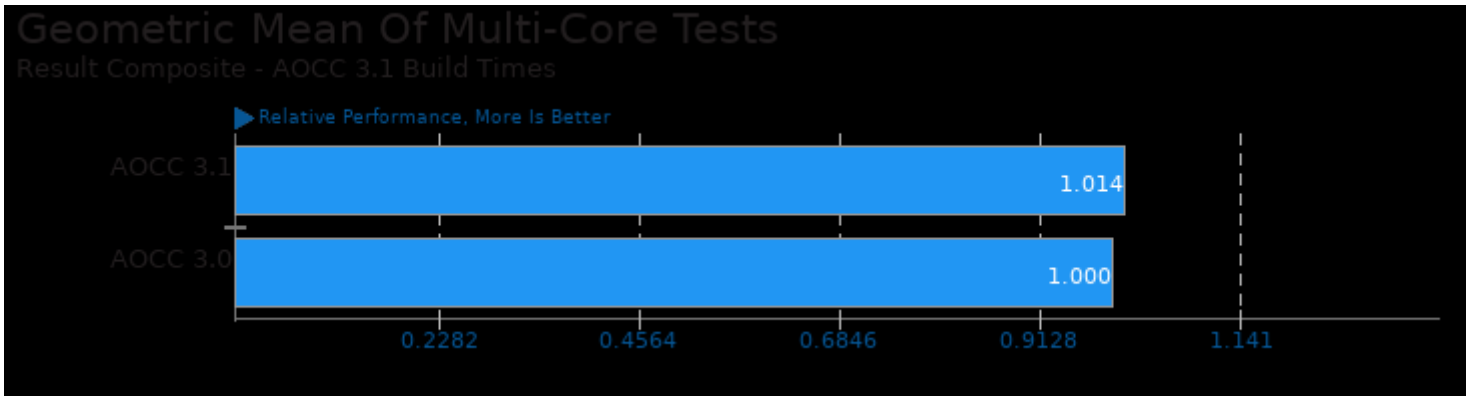


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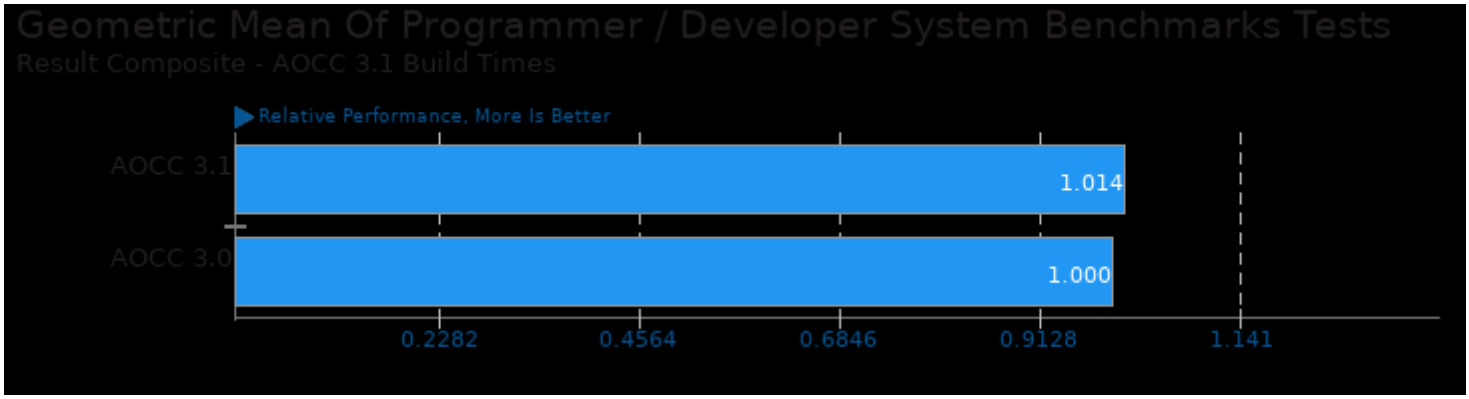


Geometric mean based upon tests: pts/build-apache and pts/build-llvm

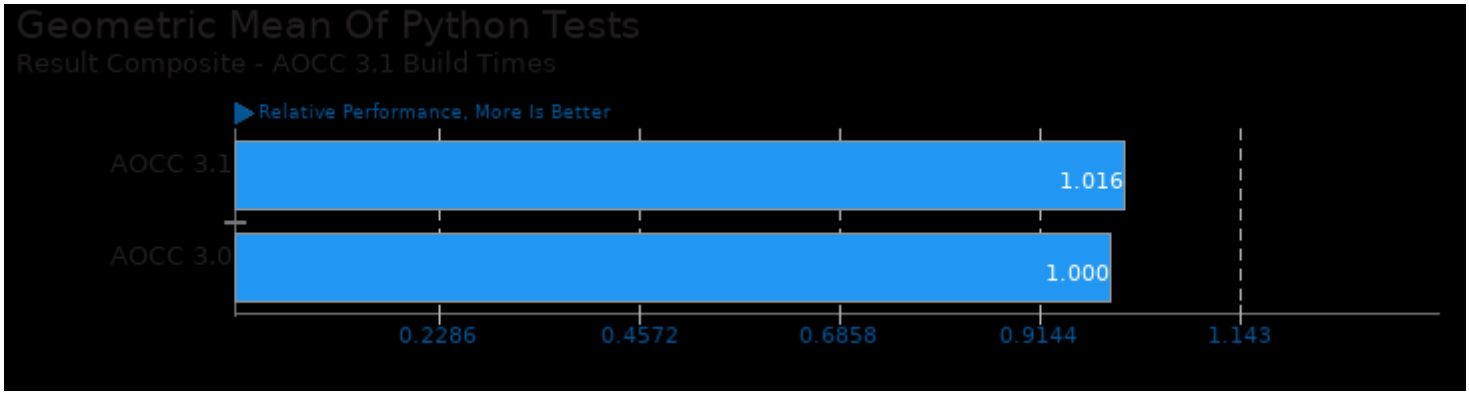
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Geometric mean based upon tests: pts/build-godot, pts/build-llvm and pts/build-mesa

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 05:51.