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Raspberry Pi 3 vs. ODROID-C2 Benchmarks

Raspberry Pi 3 Model B vs. ODROID-C2 ARM Linux benchmarks. Tests by Michael Larabel for a future article on phoronix.

Test Systems:

ODROID-C2

Processor: AArch64 rev 4 @ 2.02GHz (4 Cores), Motherboard: ODROID-C2, Memory: 2048MB, Disk: 32GB SL32G

OS: Ubuntu 16.04, Kernel: 3.14.29+ (aarch64), Compiler: GCC 5.3.1 20160216, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=aarch64-linux-gnu --disable-browser-plugin --disable-libquadmath --disable-werror --enable-checking=release --enable-clocale=gnu --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --target=aarch64-linux-gnu --with-arch-directory=aarch64 --with-default-libstdcxx-abi=new -v
Processor Notes: Scaling Governor: meson_cpufreq performance

Raspberry Pi 3

Raspberry Pi 3 vs. ODROID-C2 Benchmarks

Processor: ARMv7 rev 4 @ 1.20GHz (4 Cores), Motherboard: BCM2709 Raspberry Pi 3 Model B Rev 1.2, Memory: 925MB, Disk: 16GB SD16G, Graphics: LLVMpipe

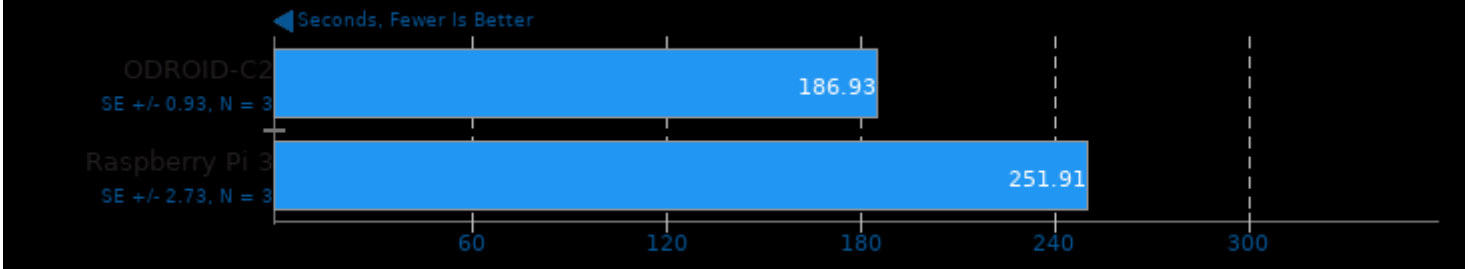
OS: Raspbian 8.0, Kernel: 4.1.18-v7+ (armv7l), Desktop: LXDE 0.7.2, Display Server: X Server 1.17.2, OpenGL: 3.0 Mesa 11.1.0 Gallium 0.4, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1824x984

Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv6 --with-float=hard --with-fpu=vfp -v
Processor Notes: Scaling Governor: BCM2835 Freq ondemand
Disk Mount Options Notes: data=ordered,noatime,rw

	ODROID-C2	Raspberry Pi 3
C-Ray - Total Time (sec)	**186.93**	**251.91**
Normalized	100%	74.21%
Standard Deviation	0.9%	1.9%
FFmpeg - H.2.H.T.N.D (sec)	**202.73**	**253.17**
Normalized	100%	80.08%
Standard Deviation	0.8%	0.4%
FLAC Audio Encoding - WAV To FLAC (sec)	**155.58**	**228.29**
Normalized	100%	68.15%
Standard Deviation	0.6%	0.3%
John The Ripper - Blowfish (Real C/S)	**852**	**574**
Normalized	100%	67.37%
Standard Deviation	0%	9.5%
John The Ripper - MD5 (Real C/S)	**17021**	**10829**
Normalized	100%	63.62%
Standard Deviation	0.1%	1.3%
SQLite - D.T.D (sec)	**12.98**	**219.03**
Normalized	100%	5.93%
Standard Deviation	0.4%	7%

C-Ray 1.1

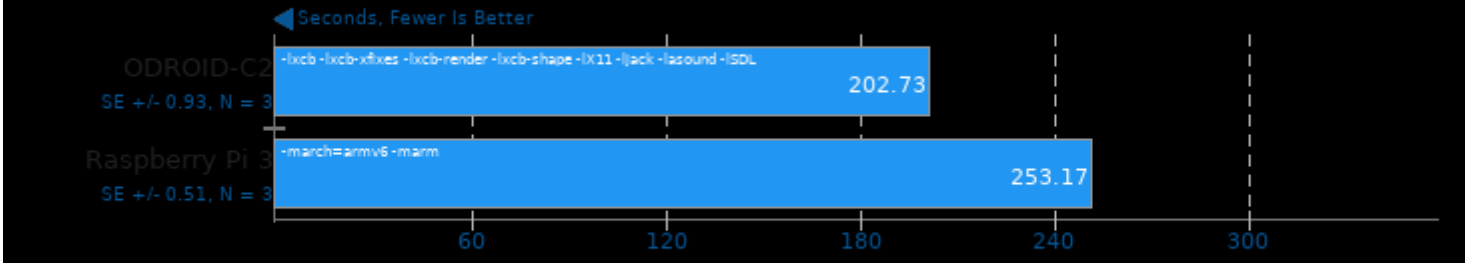
Total Time



1. (CC) gcc options: -lm -lpthread -O3

FFmpeg 2.8.1

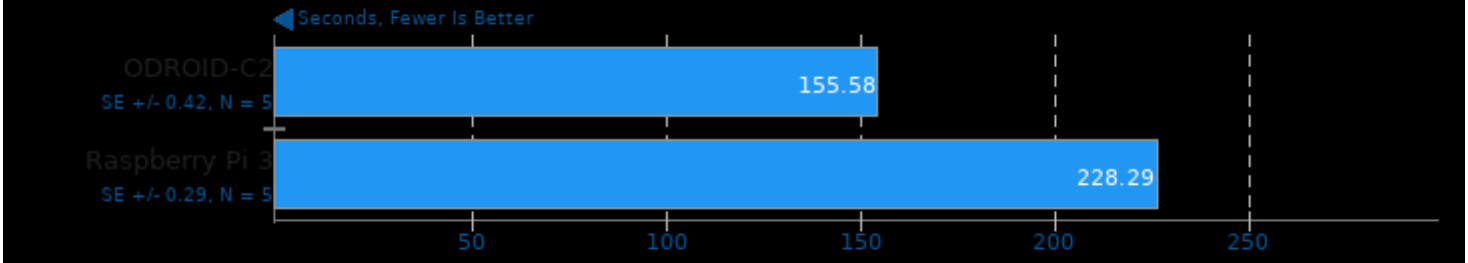
H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lm -llzma -lbz2 -pthread -std=c99 -fomit-frame-pointer -O3

FLAC Audio Encoding 1.3.1

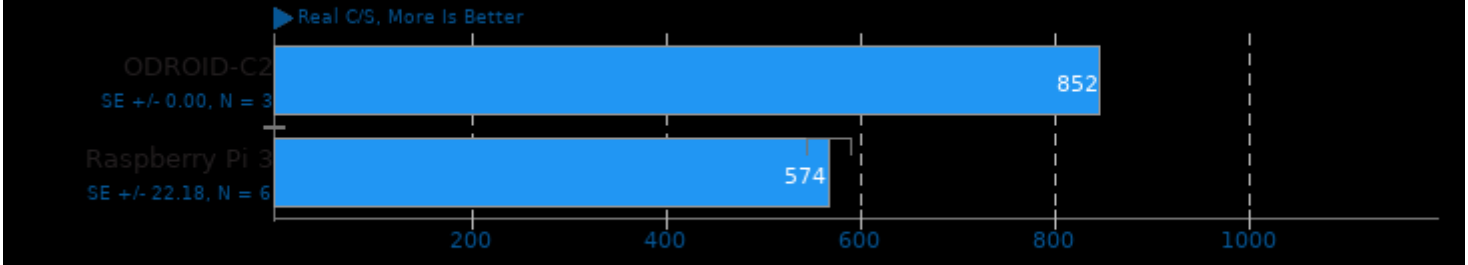
WAV To FLAC



1. (CXX) g++ options: -O2 -fvisibility=hidden -lm

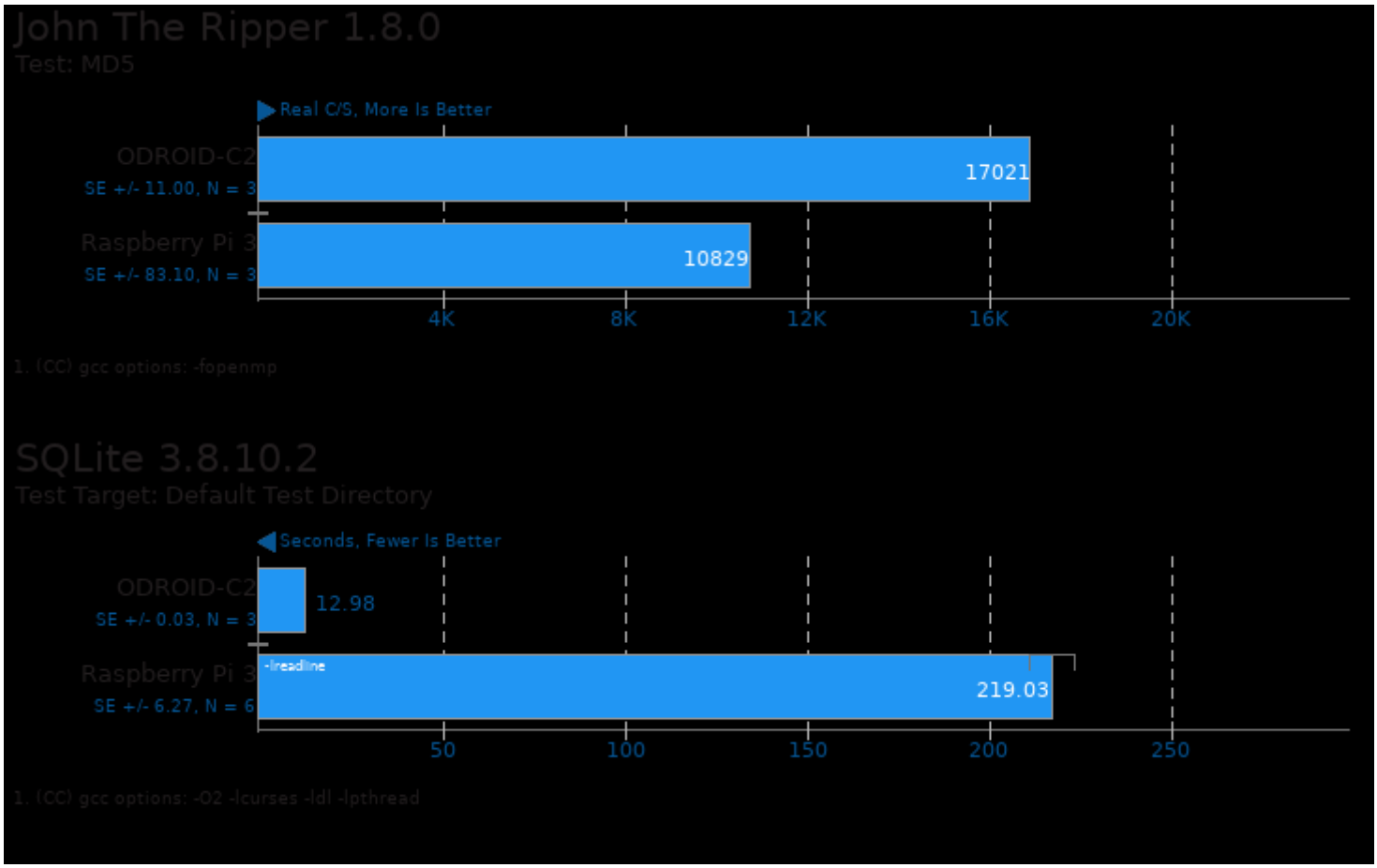
John The Ripper 1.8.0

Test: Blowfish



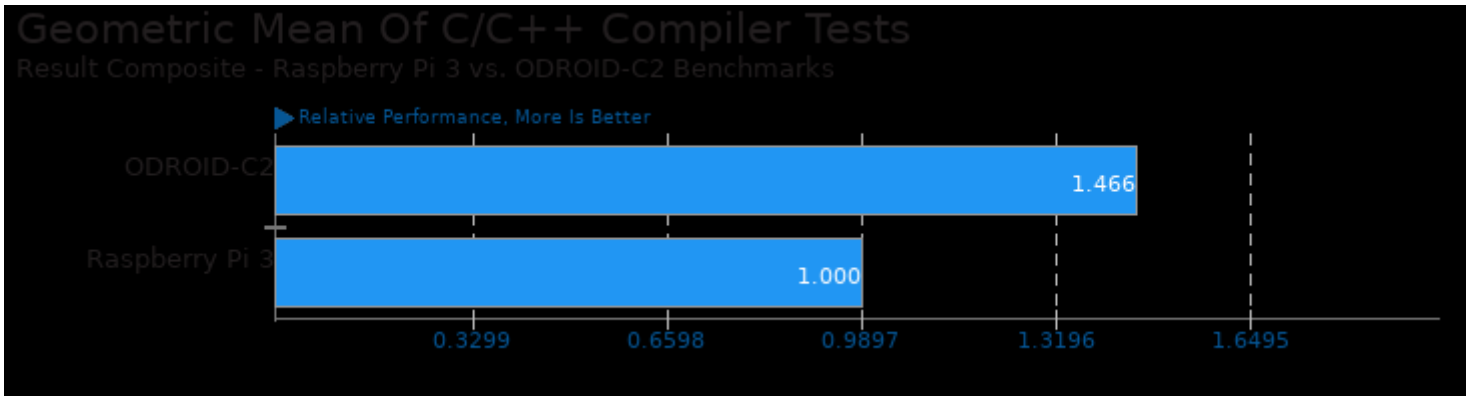
1. (CC) gcc options: -fopenmp

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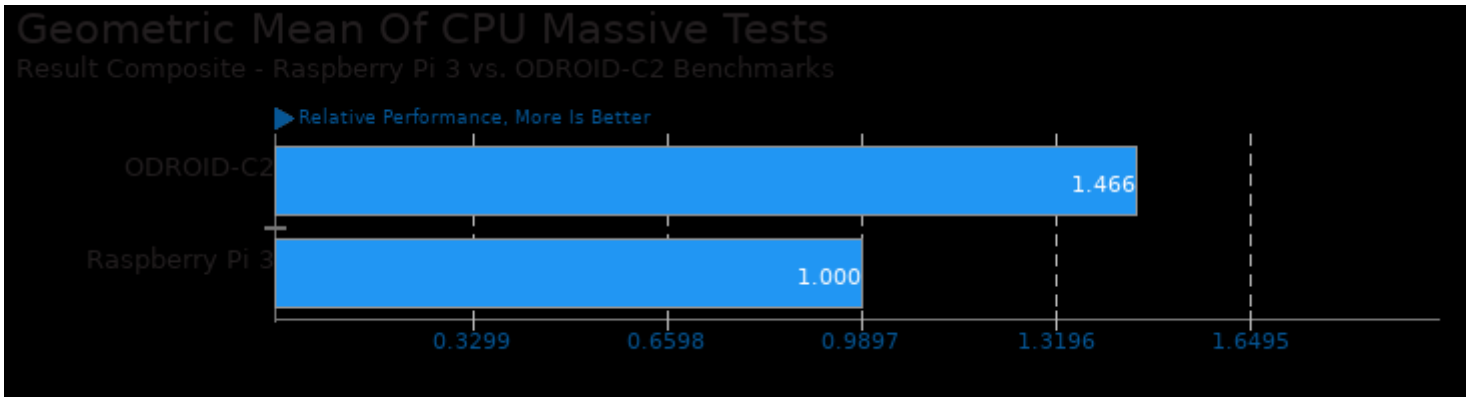


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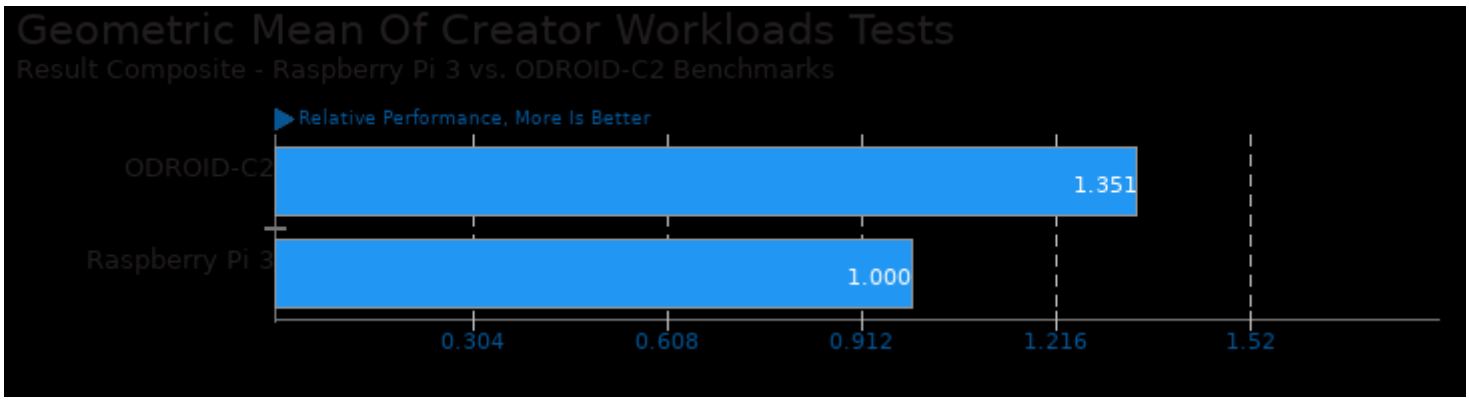
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/c-ray, pts/encode-flac and pts/john-the-ripper

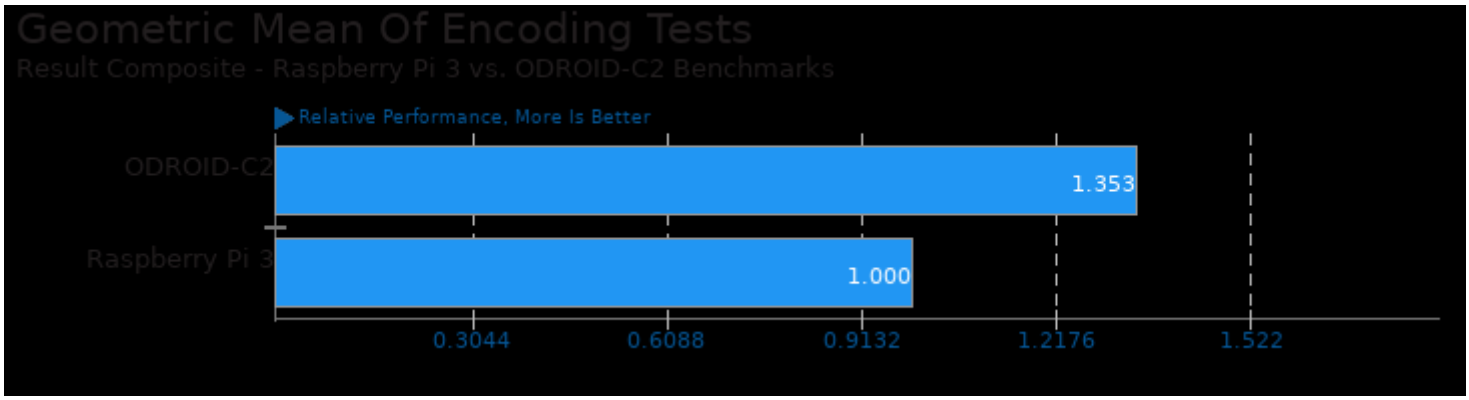


Geometric mean based upon tests: pts/c-ray, pts/encode-flac and pts/john-the-ripper

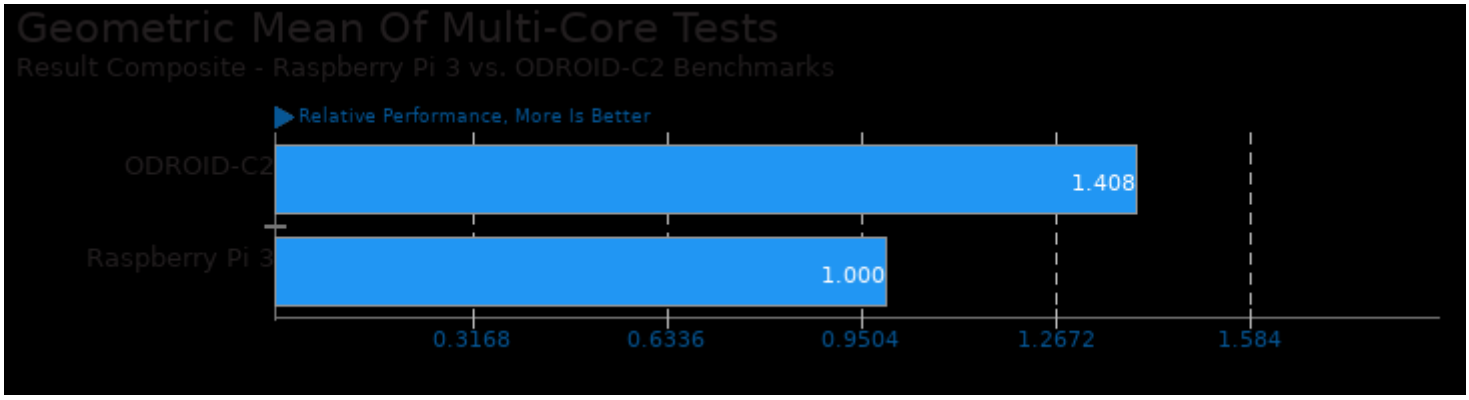


Geometric mean based upon tests: pts/c-ray, pts/ffmpeg and pts/encode-flac

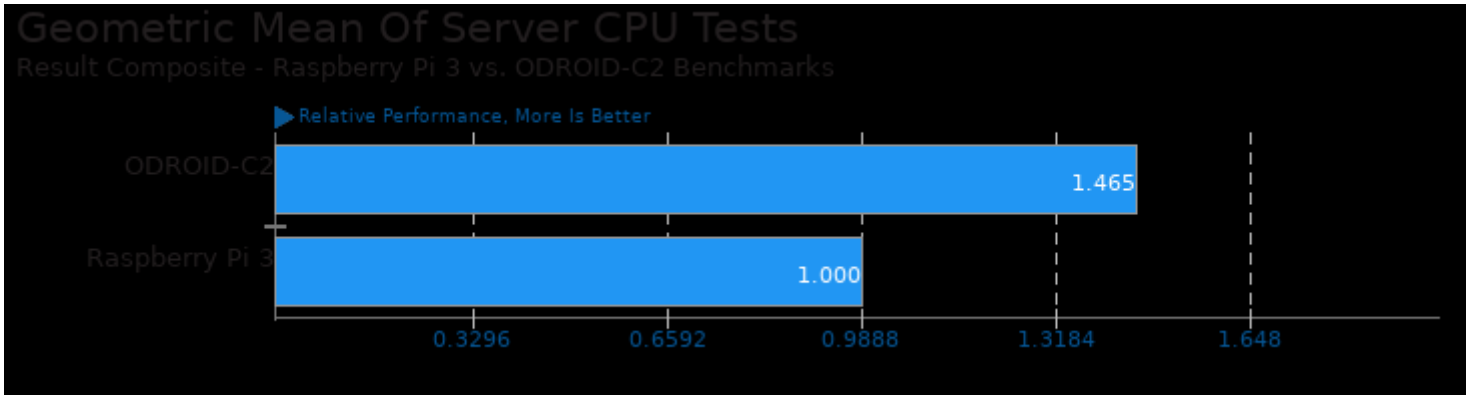
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Geometric mean based upon tests: pts/encode-flac and pts/ffmpeg



Geometric mean based upon tests: pts/c-ray, pts/ffmpeg and pts/john-the-ripper



Geometric mean based upon tests: pts/john-the-ripper and pts/c-ray

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:47.