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Raspberry Pi 2 vs. Raspberry Pi 3 Thermal

ARMv7 rev 5 testing with a BCM2709 Raspberry Pi 2 Model B Rev 1.1 and Gallium 0.4 on llvmpipe (LLVM 3.7 128 bits) on Raspbian 8.0 via the Phoronix Test Suite.

Test Systems:

Raspberry Pi 3

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

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Raspberry Pi 2

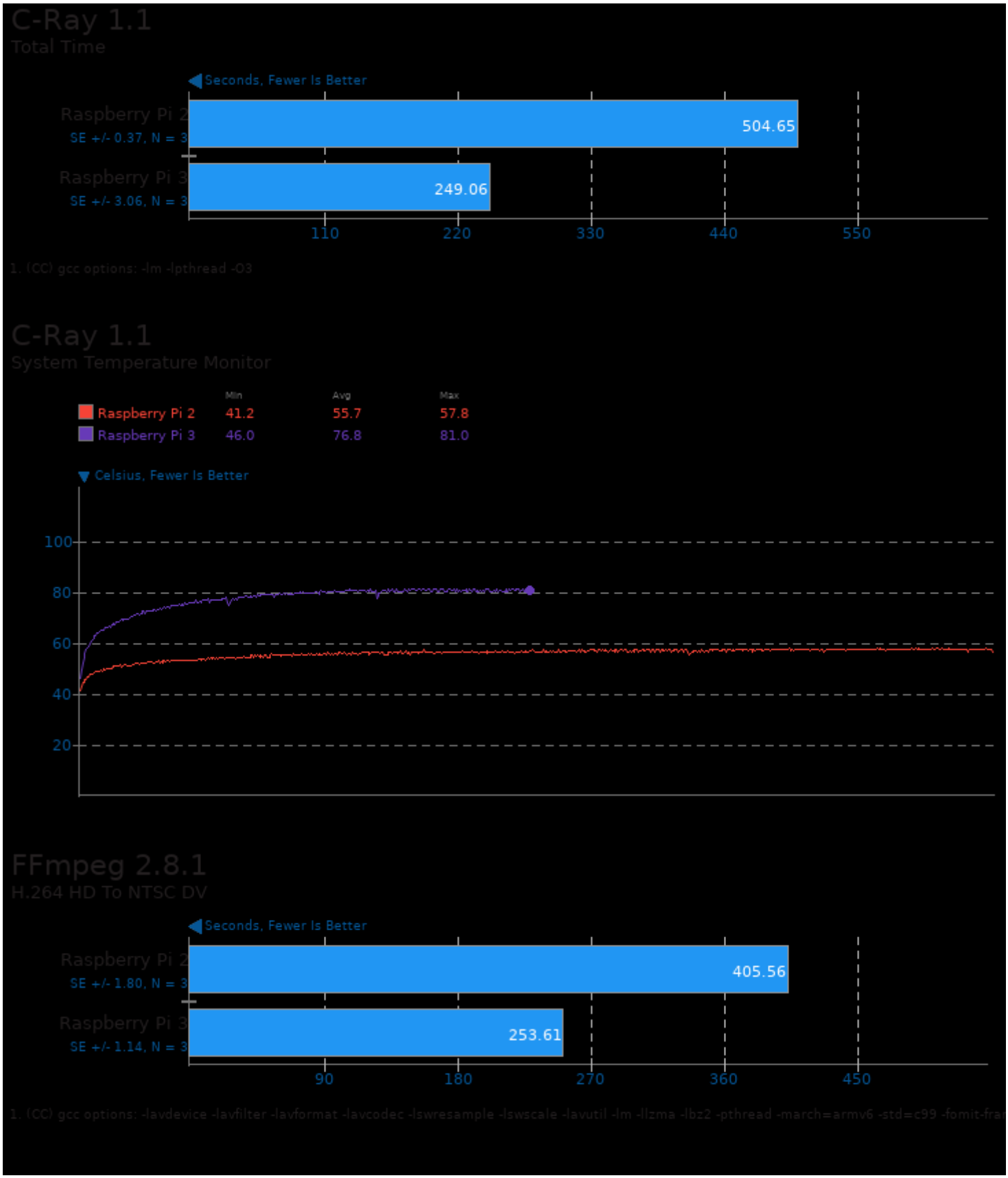
Processor: ARMv7 rev 5 @ 0.90GHz (4 Cores), Motherboard: BCM2709 Raspberry Pi 2 Model B Rev 1.1, Memory: 925MB, Disk: 16GB SD16G, Graphics: LLVMpipe

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

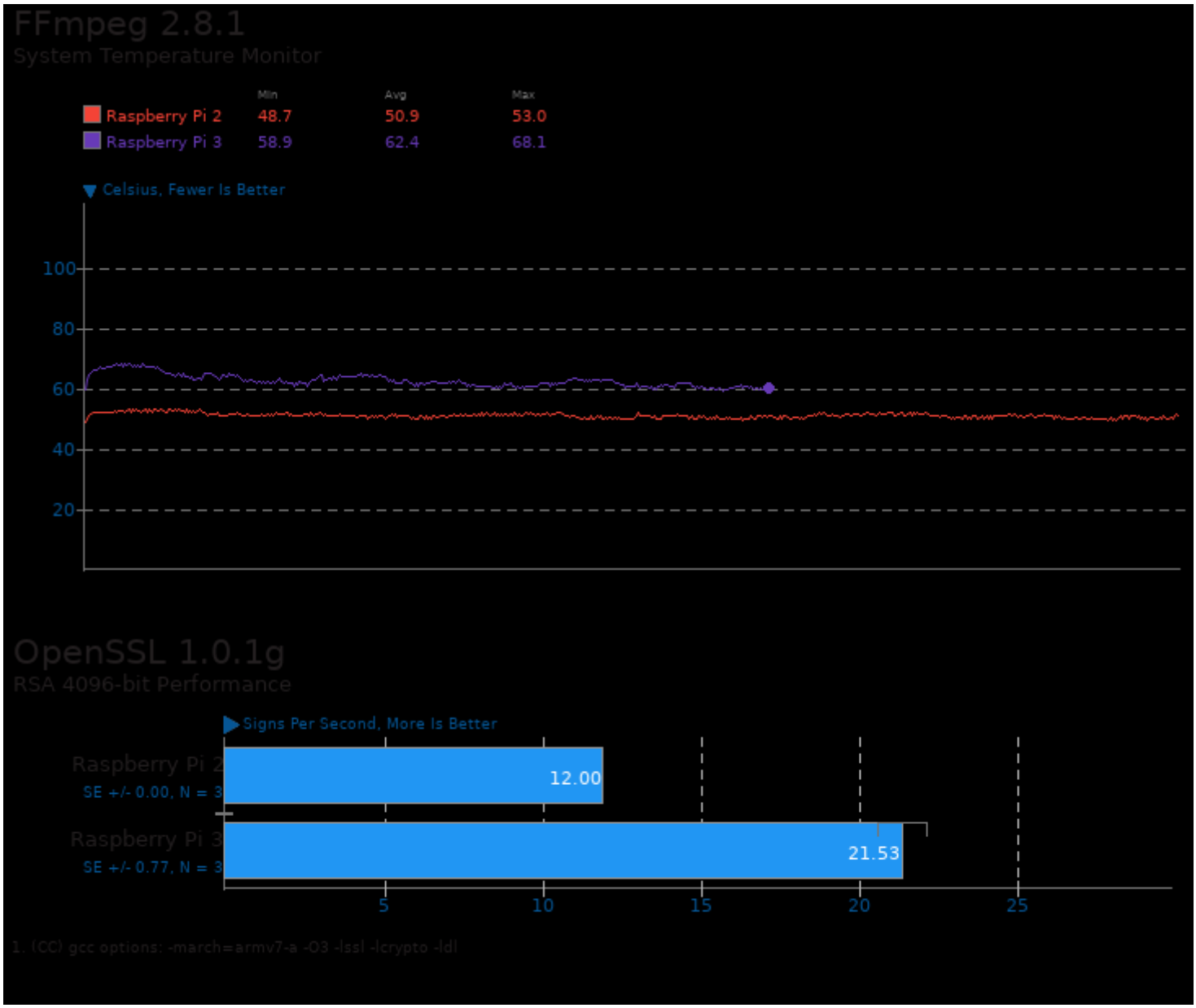
Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --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

	Raspberry Pi 3	Raspberry Pi 2
C-Ray - Total Time (sec)	**249.06**	**504.65**
Normalized	100%	49.35%
Standard Deviation	2.1%	0.1%
FFmpeg - H.2.H.T.N.D (sec)	**253.61**	**405.56**
Normalized	100%	62.53%
Standard Deviation	0.8%	0.8%
OpenSSL - R.4.b.P (Signs/sec)	**21.53**	**12**
Normalized	100%	55.74%
Standard Deviation	6.2%	0%
R Benchmark - P.T.S.v.2.1 (sec)	**10.1123**	**19.3174**
Normalized	100%	52.35%
Standard Deviation	0.7%	0.1%
Go Benchmarks - http (Nanoseconds)	**310691**	**619787**
Normalized	100%	50.13%
Standard Deviation	0.7%	0.8%
Go Benchmarks - json (Nanoseconds)	**1111010100**	**1929341602**
Normalized	100%	57.58%
Standard Deviation	0.1%	0.2%
Go Benchmarks - garbage (Nanoseconds)	**119836182**	**207400639**
Normalized	100%	57.78%
Standard Deviation	0.5%	0.1%
Himeno Benchmark - P.P.S (MFLOPS)	**72.26**	**59.11**
Normalized	100%	81.8%
Standard Deviation	0.6%	2.4%
Timed MAFFT Alignment - M.S.A (sec)	**52.79**	**75.14**
Normalized	100%	70.26%
Standard Deviation	4.2%	1%

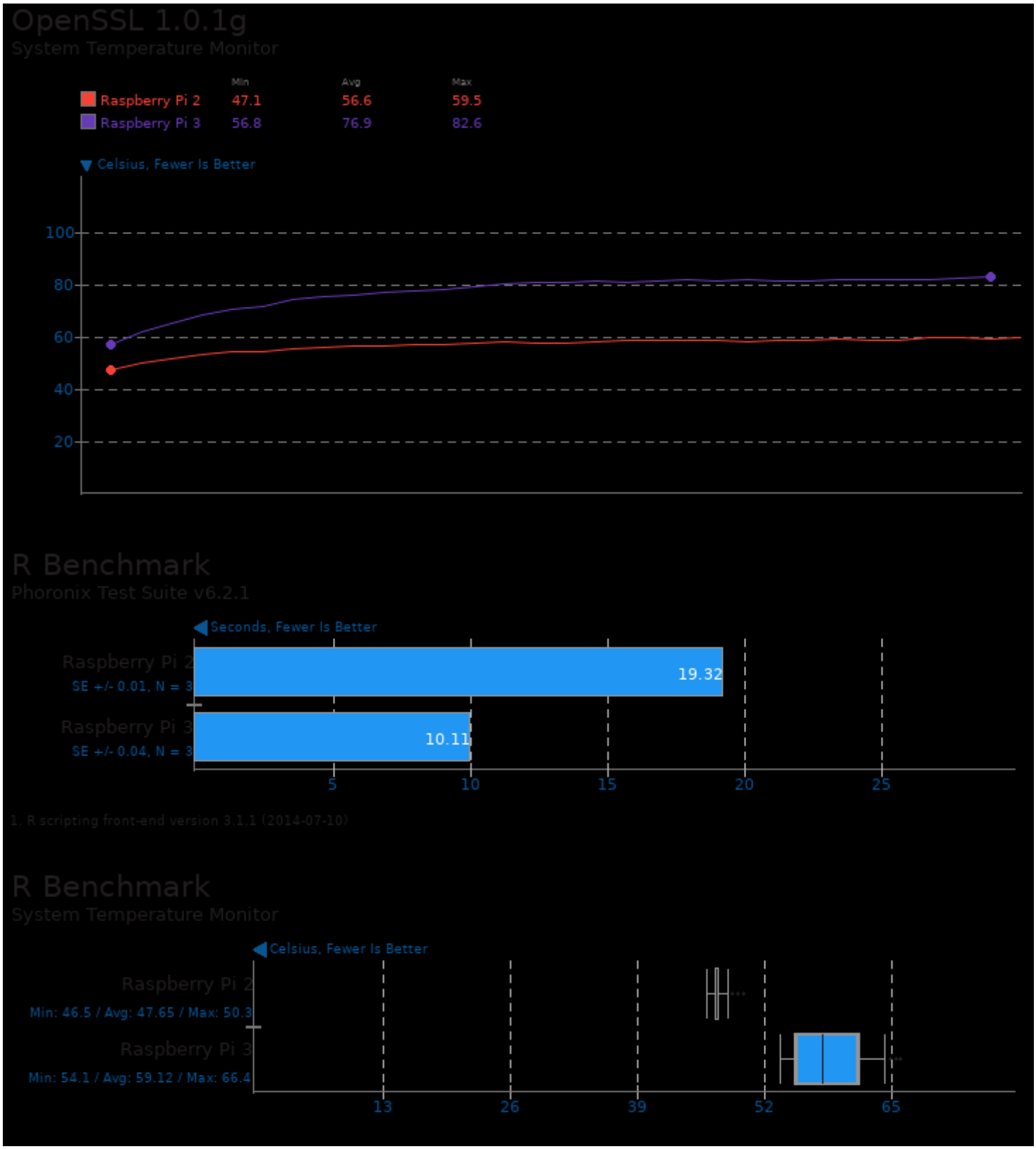
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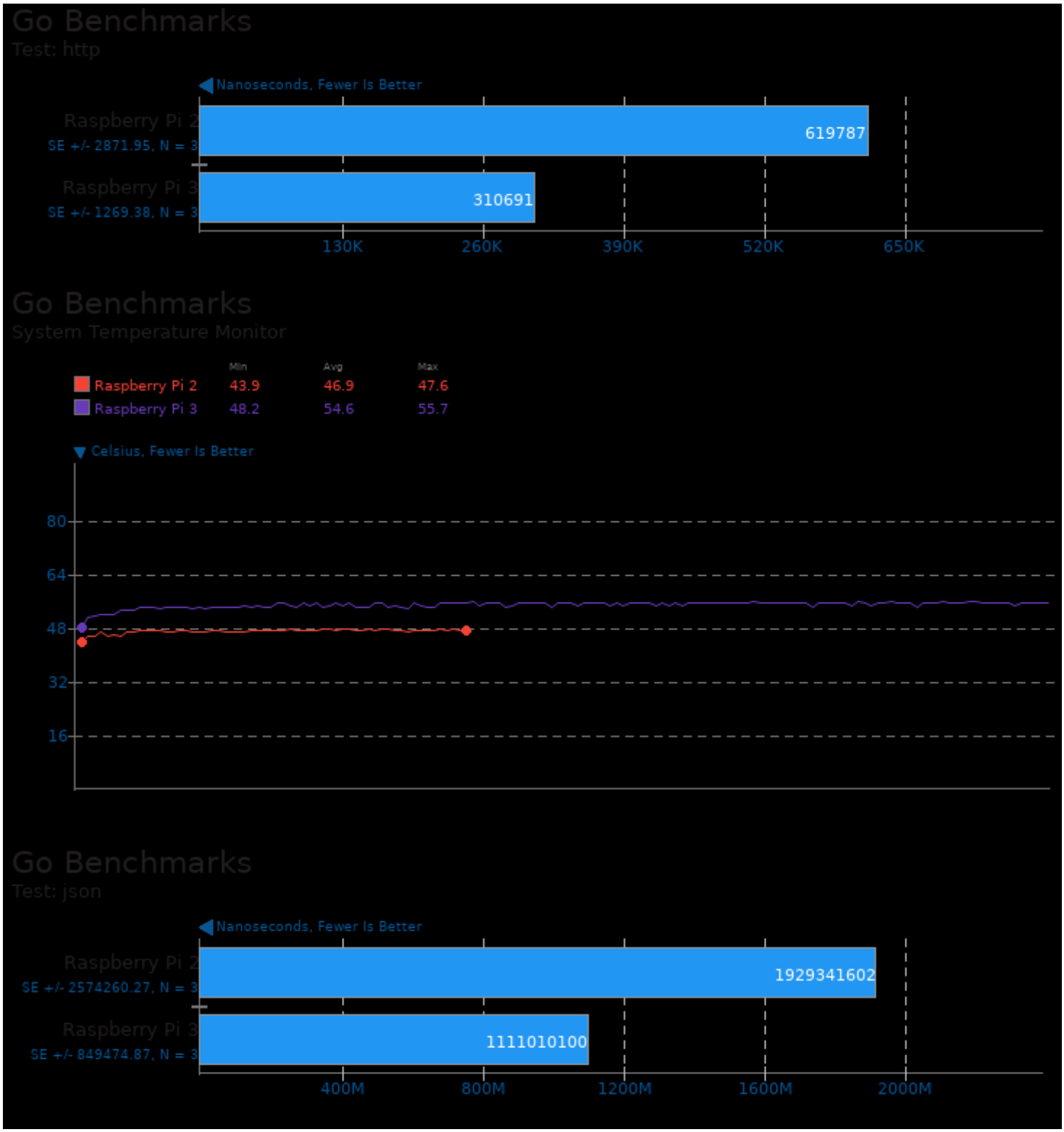
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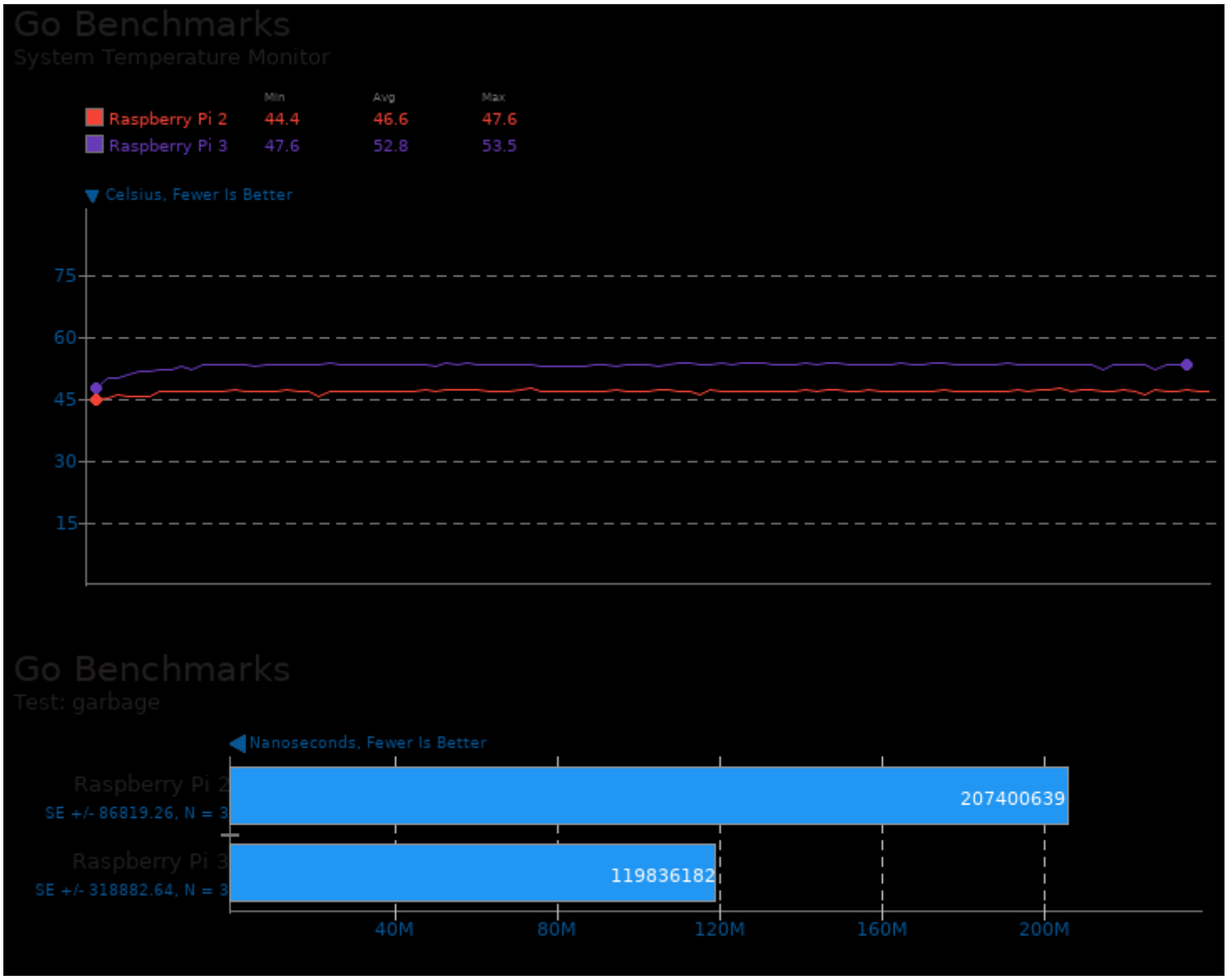
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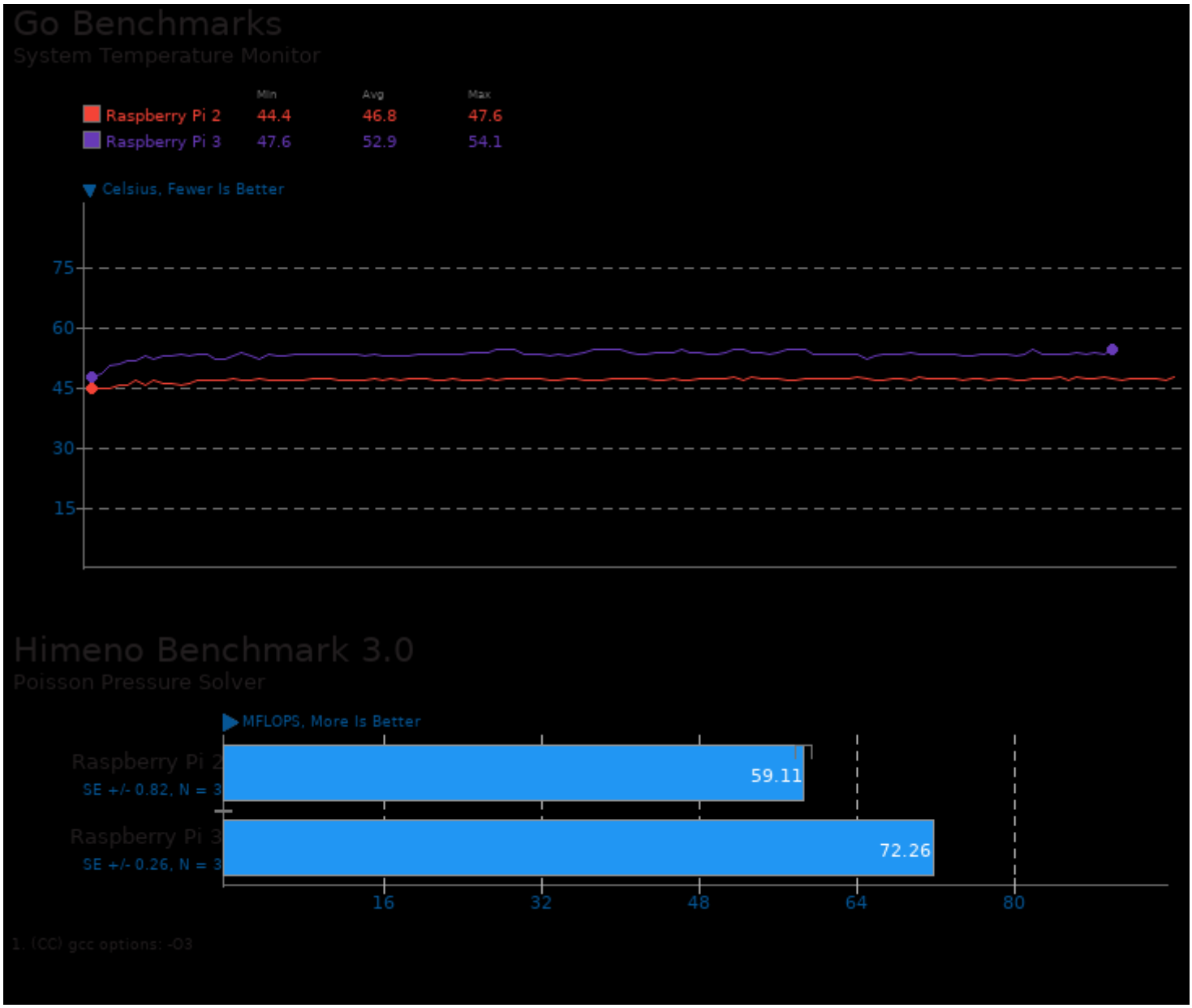
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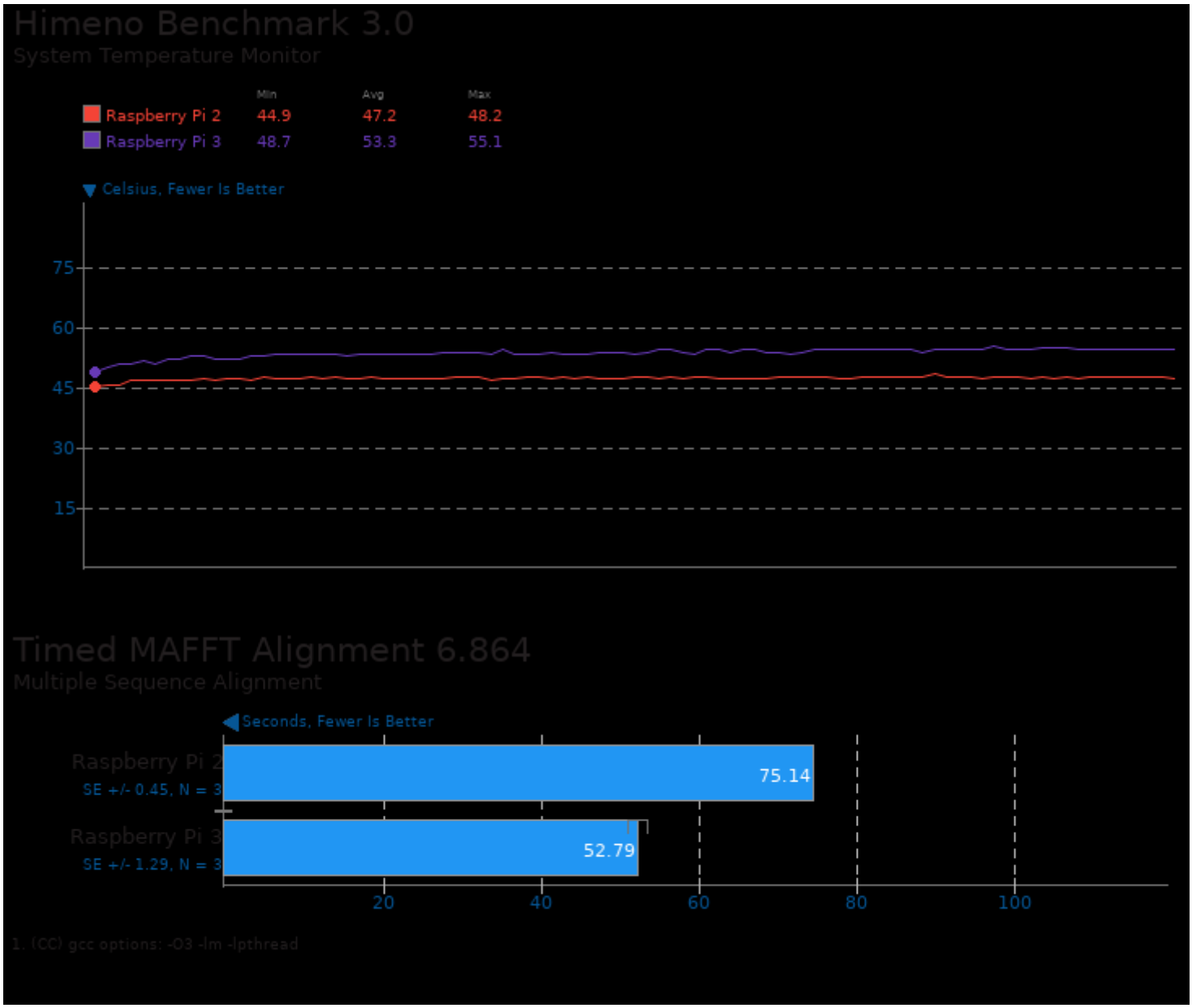
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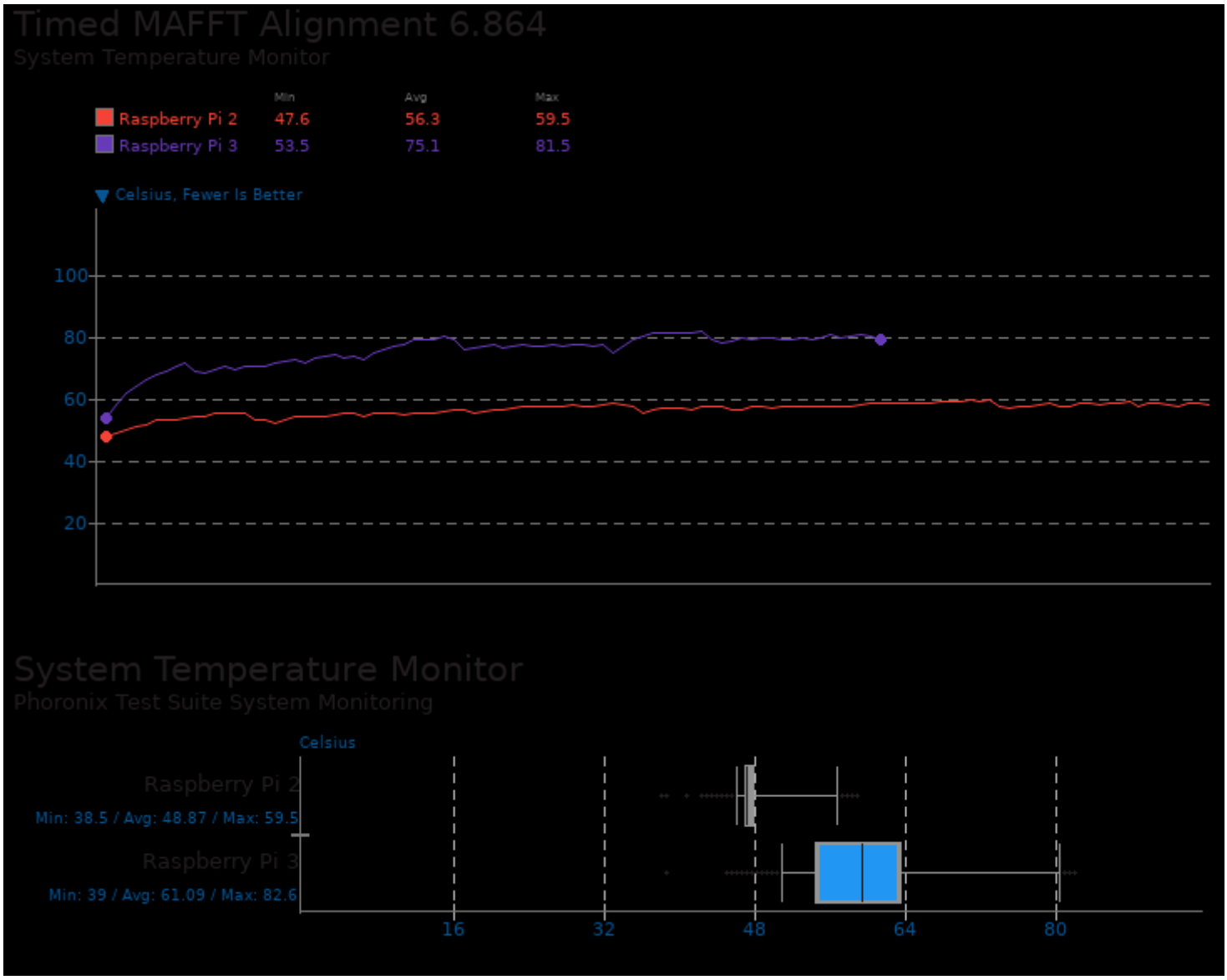
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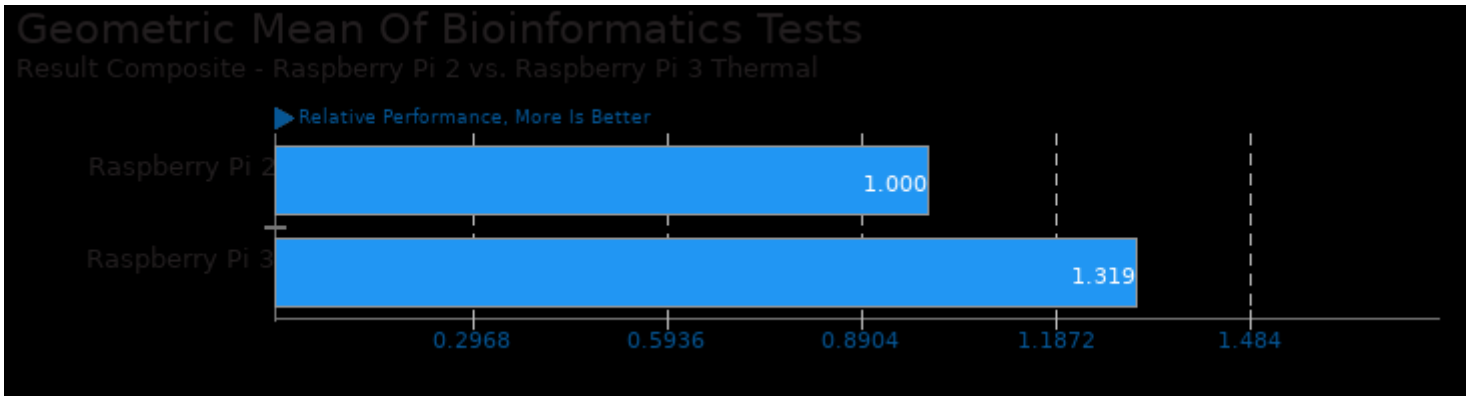


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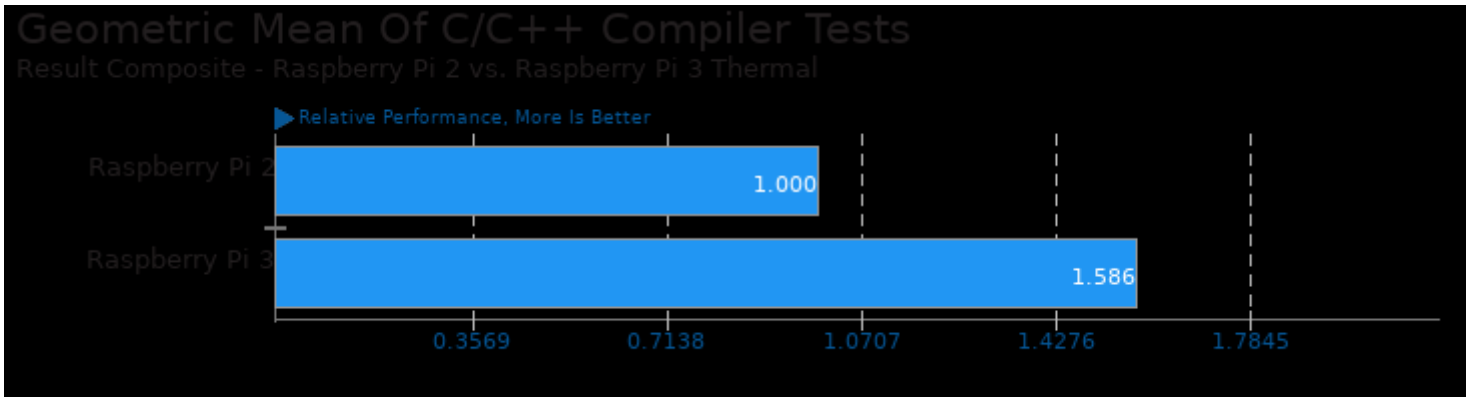


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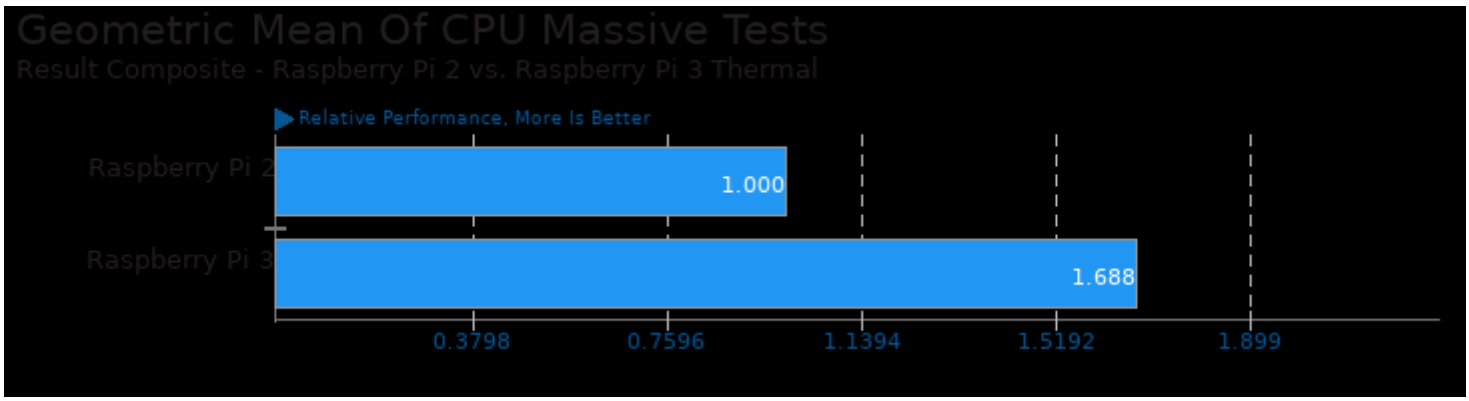
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/himeno and pts/mafft

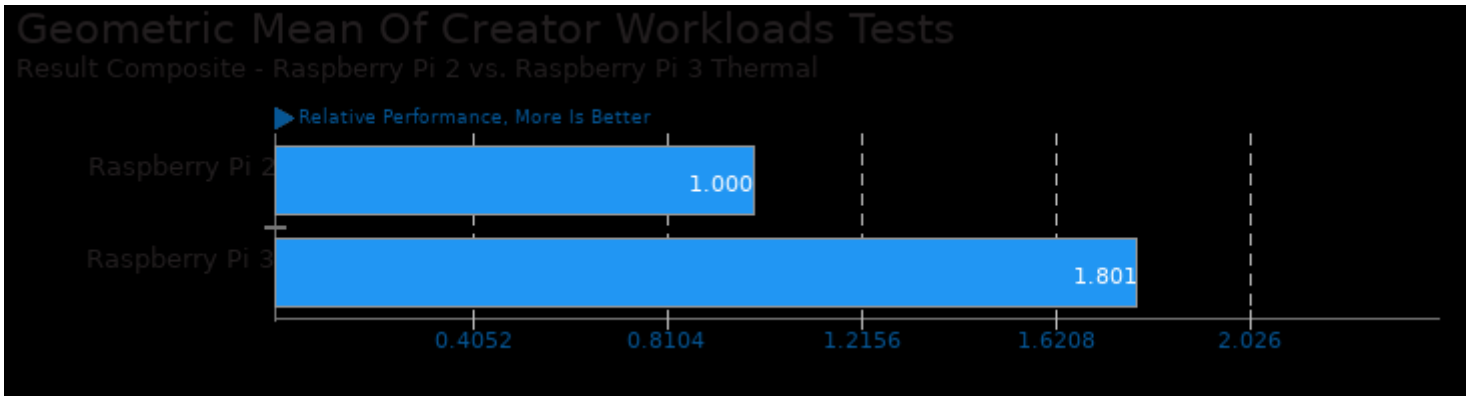


Geometric mean based upon tests: pts/mafft, pts/himeno, pts/c-ray and pts/openssl

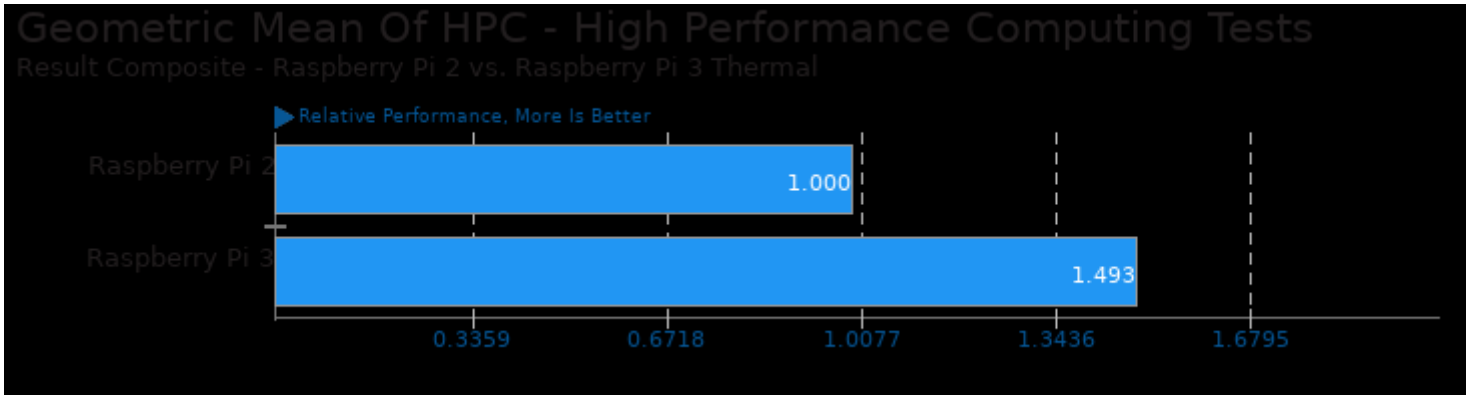


Geometric mean based upon tests: pts/c-ray, pts/go-benchmark, pts/himeno, pts/openssl, pts/mafft and pts/rbenchmark

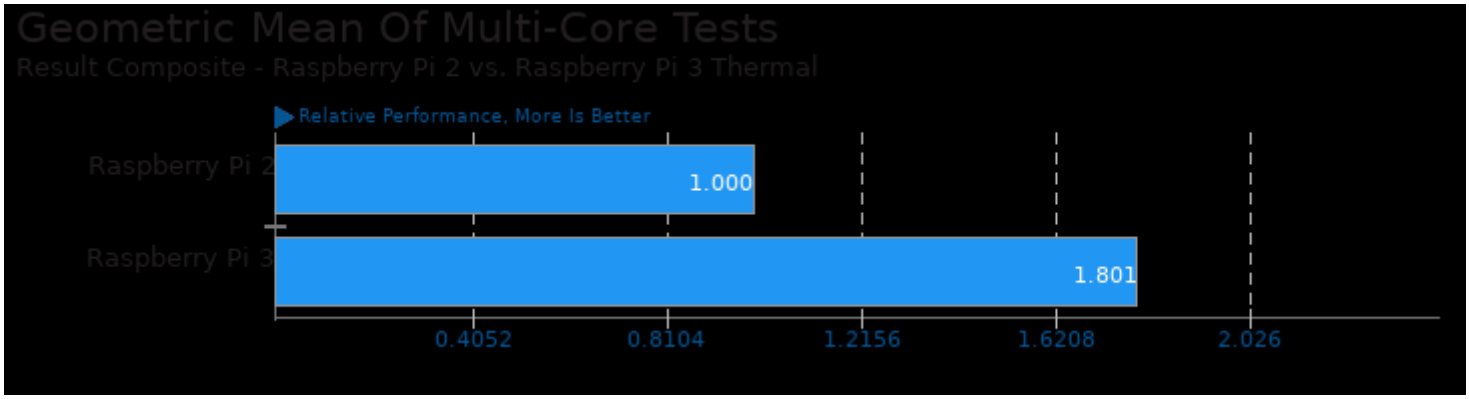
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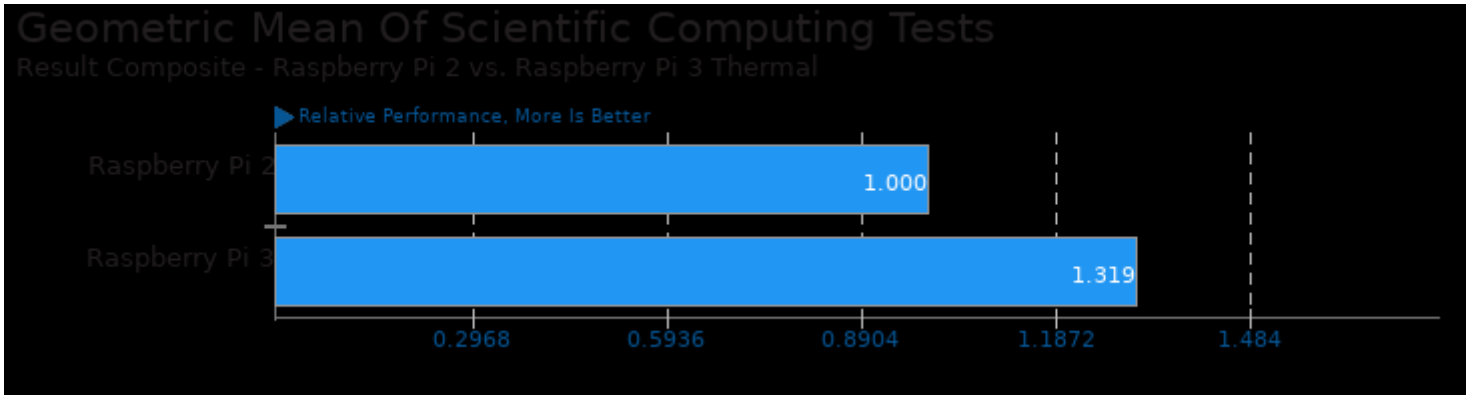
Geometric mean based upon tests: pts/c-ray and pts/ffmpeg



Geometric mean based upon tests: pts/himeno, pts/mafft and pts/rbenchmark

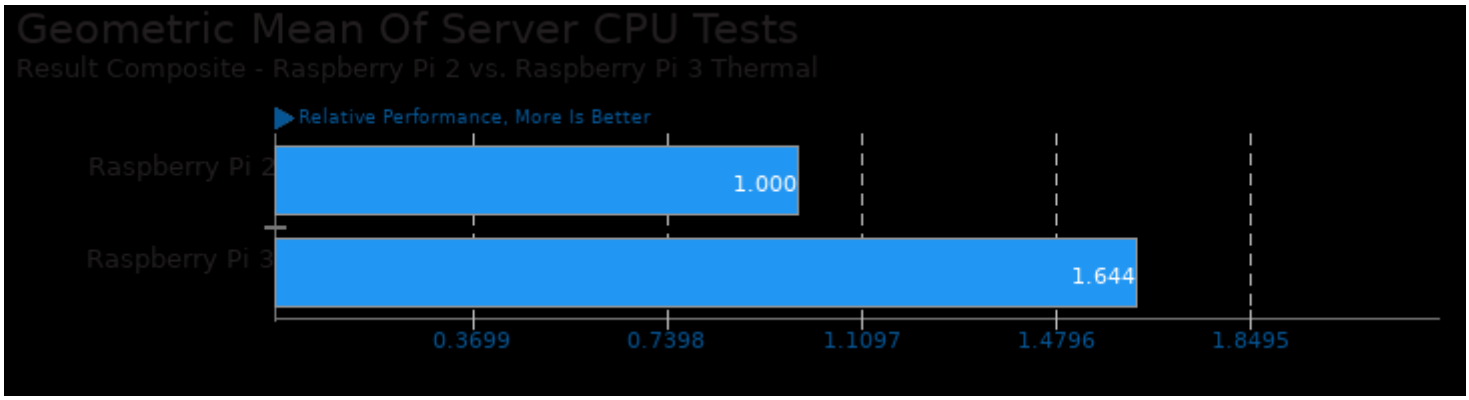


Geometric mean based upon tests: pts/c-ray and pts/ffmpeg



Geometric mean based upon tests: pts/himeno and pts/mafft

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Geometric mean based upon tests: pts/himeno, pts/c-ray and pts/openssl

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 16:52.