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ARMv8 Cortex-A72 testing with a BCM2835 Raspberry Pi 400 Rev 1.0 and vc4drmfb on Debian 11 via the Phoronix Test Suite.

Automated Executive Summary

c had the most wins, coming in first place for 42% of the tests.

Based on the geometric mean of all complete results, the fastest (c) was 1.013x the speed of the slowest (b). a was 0.987x the speed of c and b was 1x the speed of a.

Test Systems:

a

b

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c

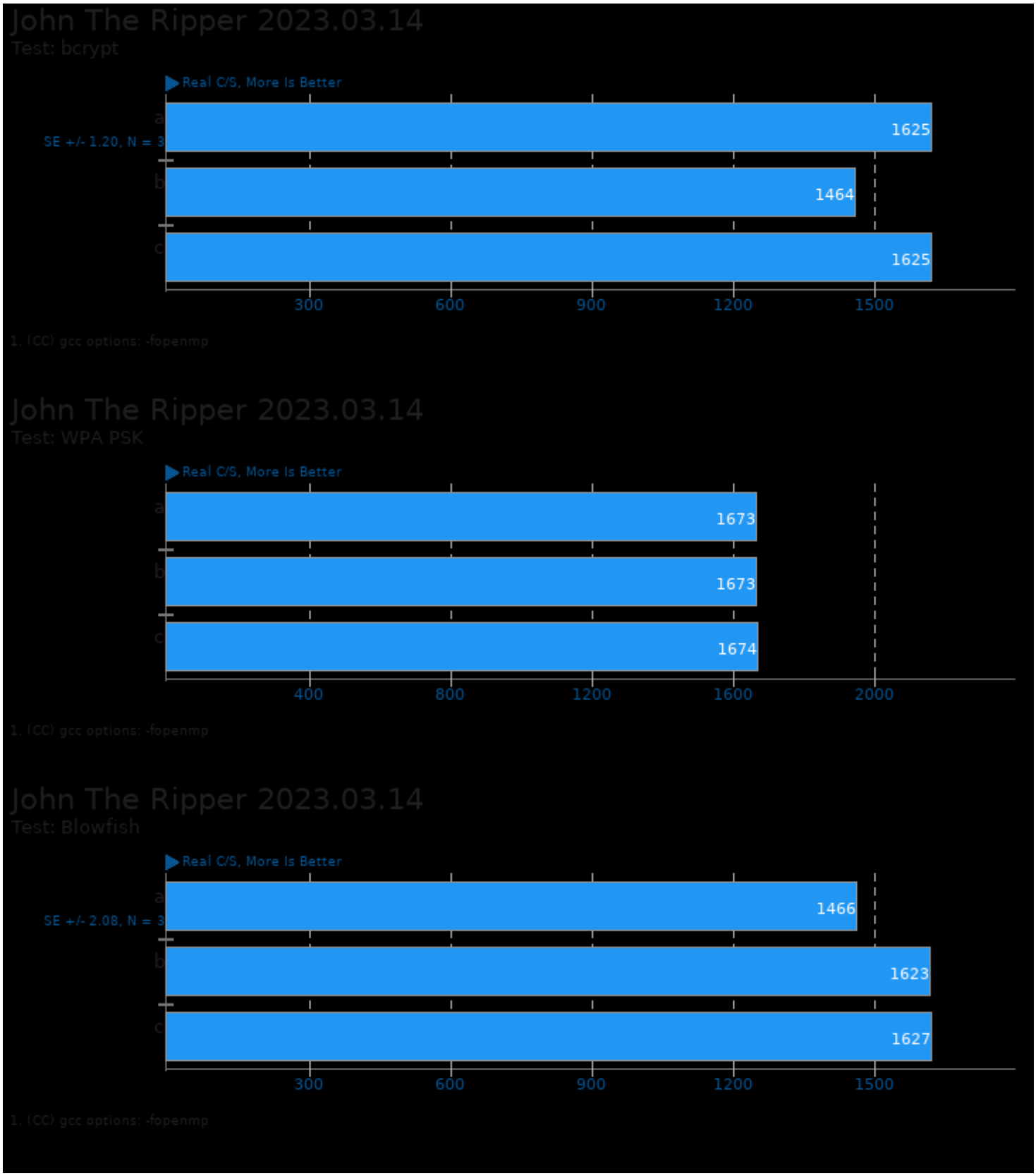
Processor: ARMv8 Cortex-A72 @ 1.80GHz (4 Cores), Motherboard: BCM2835 Raspberry Pi 400 Rev 1.0, Chipset: Broadcom BCM2711, Memory: 4096MB, Disk: 128GB SF128, Graphics: vc4drmfb, Monitor: DELL P2210H

OS: Debian 11, Kernel: 5.15.84-v8+ (aarch64), Desktop: LXDE, Display Server: X Server 1.20.11, Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1920x1080

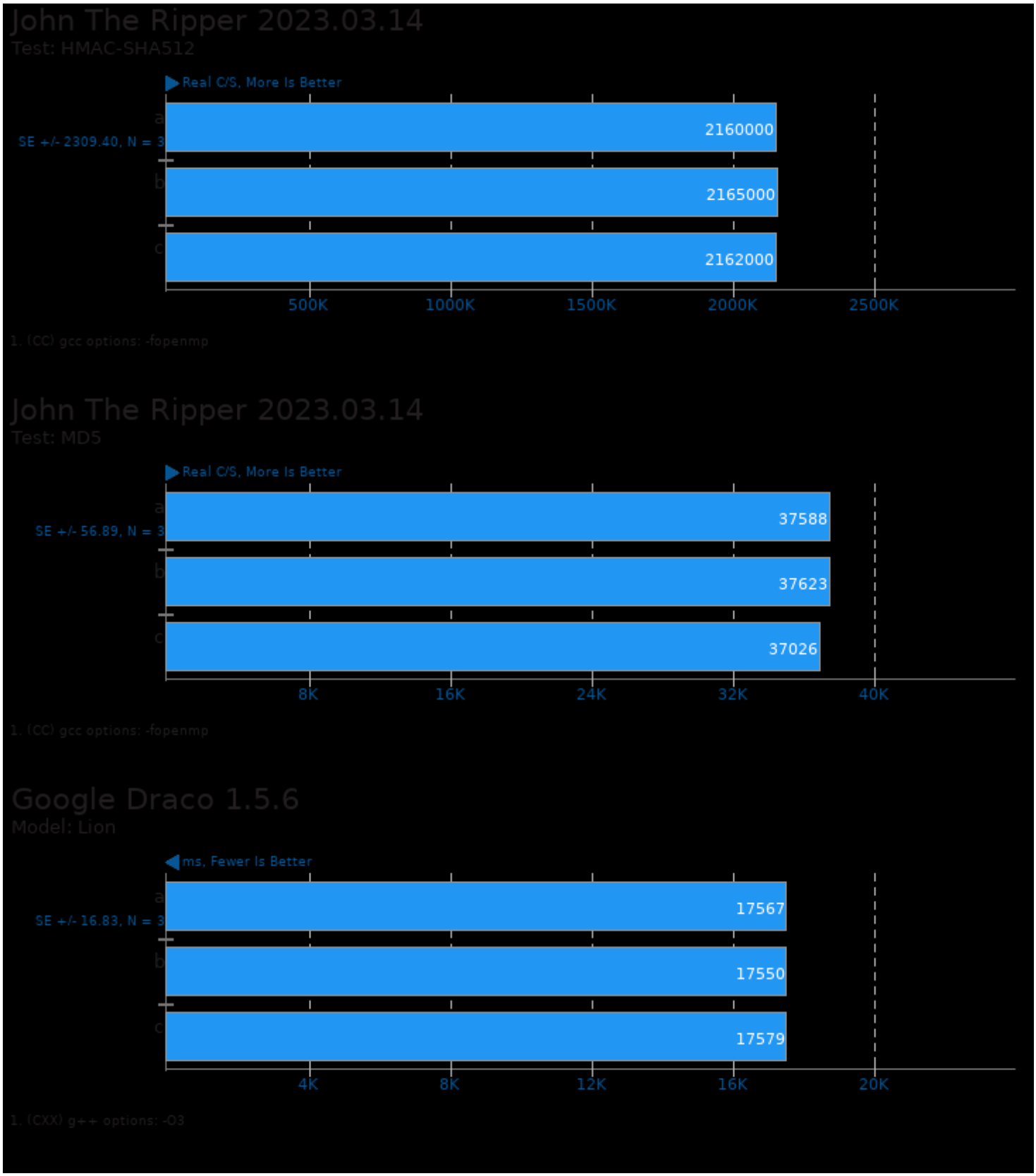
Kernel Notes: snd_bcm2835.enable_compat_alsa=0 snd_bcm2835.enable_hdmi=1
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: cpufreq-dt ondemand
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbds: Not affected + tsx_async_abort: Not affected

	a	b	c
John The Ripper - bcrypt (Real C/S)	**1625**	**1464**	**1625**
Normalized	100%	90.09%	100%
Standard Deviation	0.1%		
John The Ripper - WPA PSK (Real C/S)	**1673**	**1673**	**1674**
Normalized	99.94%	99.94%	100%
John The Ripper - Blowfish (Real C/S)	**1466**	1623	**1627**
Normalized	90.1%	99.75%	100%
Standard Deviation	0.2%		
John The Ripper - HMAC-SHA512 (Real C/S)	**2160000**	**2165000**	2162000
Normalized	99.77%	100%	99.86%
Standard Deviation	0.2%		
John The Ripper - MD5 (Real C/S)	37588	**37623**	**37026**
Normalized	99.91%	100%	98.41%
Standard Deviation	0.3%		
Google Draco - Lion (ms)	17567	**17550**	**17579**
Normalized	99.9%	100%	99.84%
Standard Deviation	0.2%		
Google Draco - Church Facade (ms)	27130	**27222**	**27080**
Normalized	99.82%	99.48%	100%
Standard Deviation	0.2%		

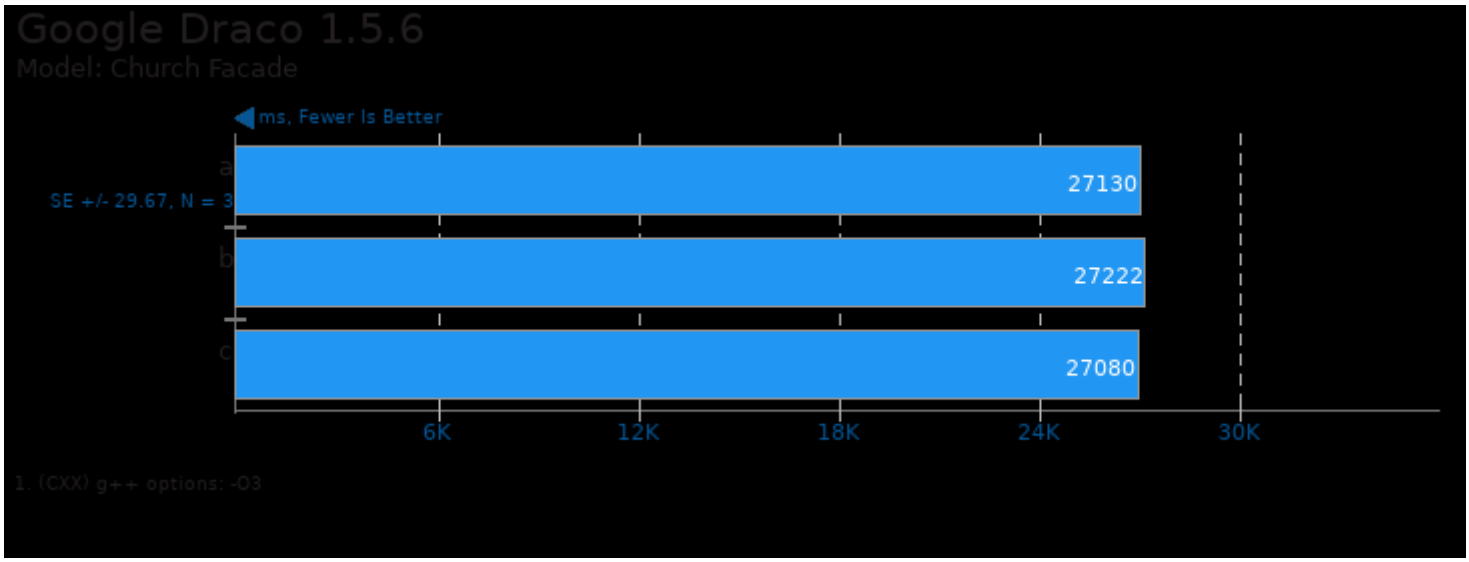
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John The Ripper 2023.03.14
Test: bcrypt
Real C/S, More Is Better
a
b
c
SE +/- 1.20, N = 3
1625
1464
1625
300
600
900
1200
1500
1. (CC) gcc options: -fopenmp
John The Ripper 2023.03.14
Test: WPA PSK
Real C/S, More Is Better
a
b
c
1673
1673
1674
400
800
1200
1600
2000
1. (CC) gcc options: -fopenmp
John The Ripper 2023.03.14
Test: Blowfish
Real C/S, More Is Better
a
b
c
SE +/- 2.08, N = 3
1466
1623
1627
300
600
900
1200
1500
1. (CC) gcc options: -fopenmp

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John The Ripper 2023.03.14
Test: HMAC-SHA512
Real C/S, More Is Better
SE +/- 2309.40, N = 3
a
2160000
b
2165000
c
2162000
500K
1000K
1500K
2000K
2500K
1. (CC) gcc options: -fopenmp
John The Ripper 2023.03.14
Test: MD5
Real C/S, More Is Better
SE +/- 56.89, N = 3
a
37588
b
37623
c
37026
8K
16K
24K
32K
40K
1. (CC) gcc options: -fopenmp
Google Draco 1.5.6
Model: Lion
ms, Fewer Is Better
SE +/- 16.83, N = 3
a
17567
b
17550
c
17579
4K
8K
12K
16K
20K
1. (CXX) g++ options: -O3

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 19:45.