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pi4-8-python

ARMv8 Cortex-A72 testing with a BCM2835 Raspberry Pi 4 Model B Rev 1.4 and vc4drmfb on Ubuntu 20.10 via the Phoronix Test Suite.

Test Systems:

ARMv8 Cortex-A72

Processor: ARMv8 Cortex-A72 @ 1.50GHz (4 Cores), Motherboard: BCM2835 Raspberry Pi 4 Model B Rev 1.4, Memory: 8GB, Disk: 240GB 00SSD1, Graphics: vc4drmfb, Monitor: Q2770

OS: Ubuntu 20.10, Kernel: 5.8.0-1010-raspi (aarch64), Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 2560x1440

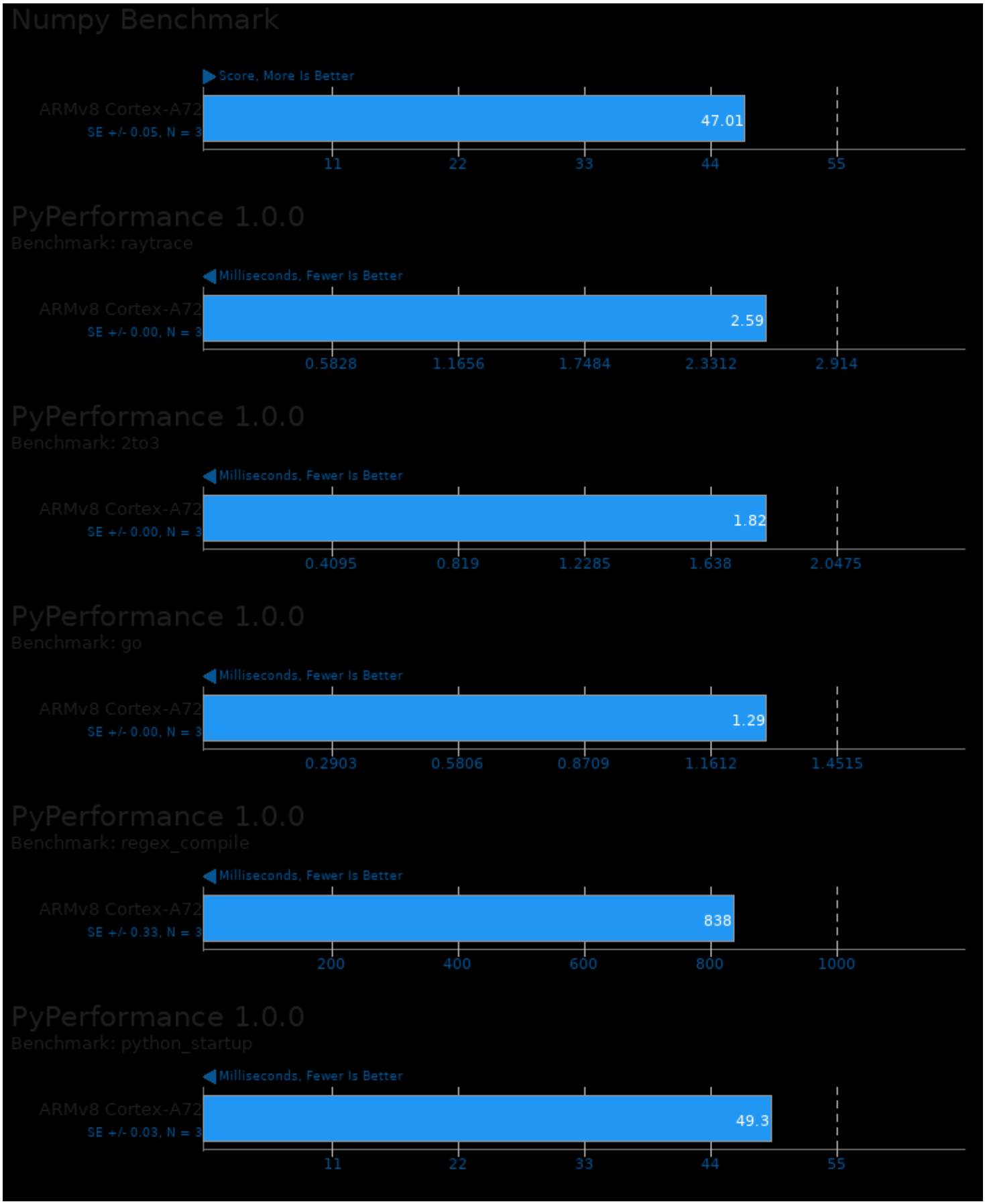
Kernel Notes: snd_bcm2835.enable_compat_alsa=0 snd_bcm2835.enable_hdmi=1 snd_bcm2835.enable_headphones=1
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --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-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-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: cpufreq-dt performance

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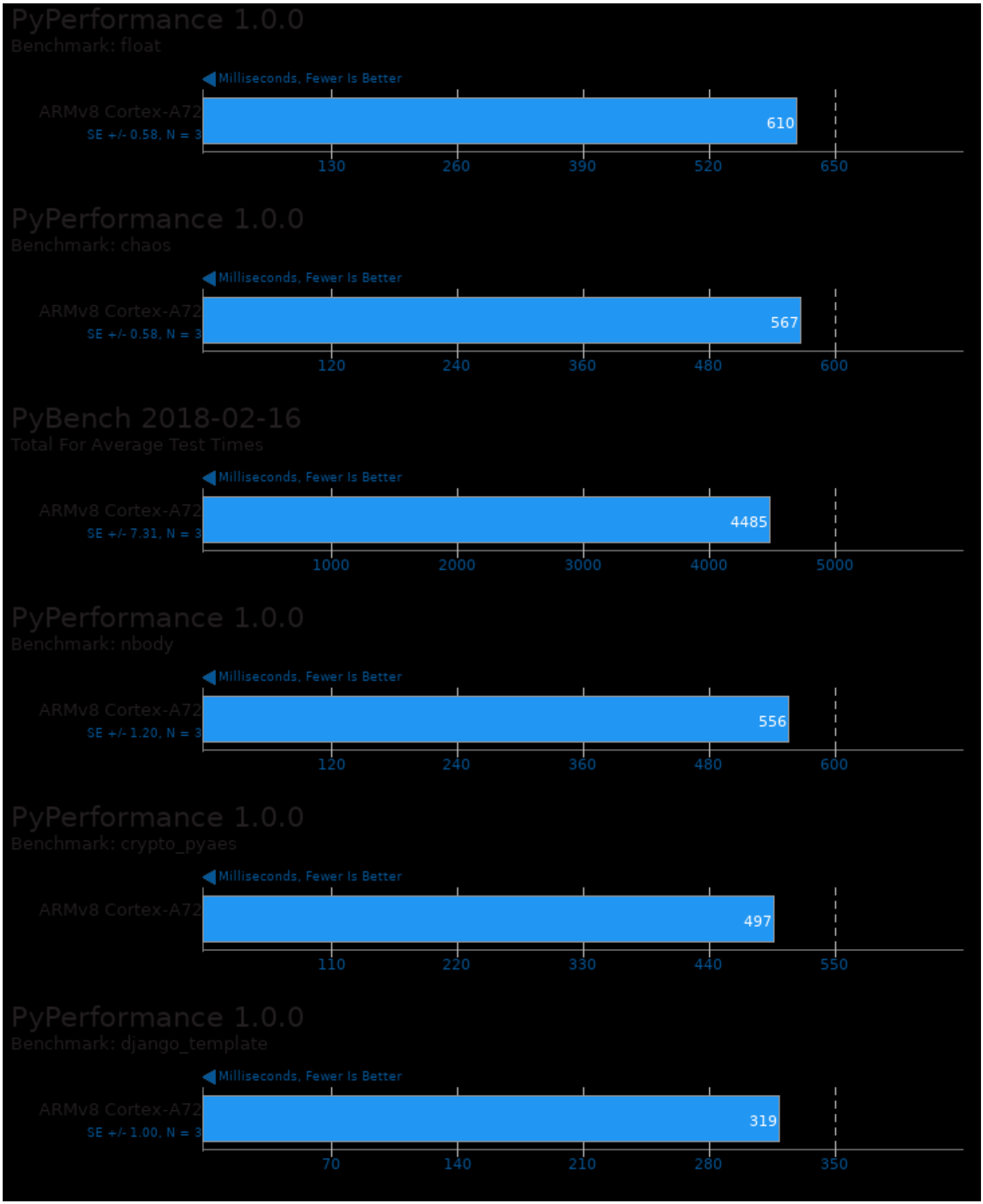
Python Notes: Python 3.8.6
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbds: Not affected + tsx_async_abort: Not affected

	ARMv8 Cortex-A72
Numpy Benchmark (Score)	47.01
Standard Deviation	0.2%
PyPerformance - raytrace (Milliseconds)	2.59
Standard Deviation	0.2%
PyPerformance - 2to3 (Milliseconds)	1.82
Standard Deviation	0%
PyPerformance - go (Milliseconds)	1.29
Standard Deviation	0.4%
PyPerformance - regex_compile (Milliseconds)	838
Standard Deviation	0.1%
PyPerformance - python_startup (Milliseconds)	49.3
Standard Deviation	0.1%
PyPerformance - float (Milliseconds)	610
Standard Deviation	0.2%
PyPerformance - chaos (Milliseconds)	567
Standard Deviation	0.2%
PyBench - T.F.A.T.T (Milliseconds)	4485
Standard Deviation	0.3%
PyPerformance - nbody (Milliseconds)	556
Standard Deviation	0.4%
PyPerformance - crypto_pyaes (Milliseconds)	497
PyPerformance - django_template (Milliseconds)	319
Standard Deviation	0.5%
Mlpack Benchmark - scikit_svm (sec)	66.08
Standard Deviation	0.2%
PyPerformance - pathlib (Milliseconds)	235
Scikit-Learn (sec)	57.409
Standard Deviation	0.3%
PyPerformance - json_loads (Milliseconds)	115
PyPerformance - pickle_pure_python (Milliseconds)	2.64
Standard Deviation	0.4%

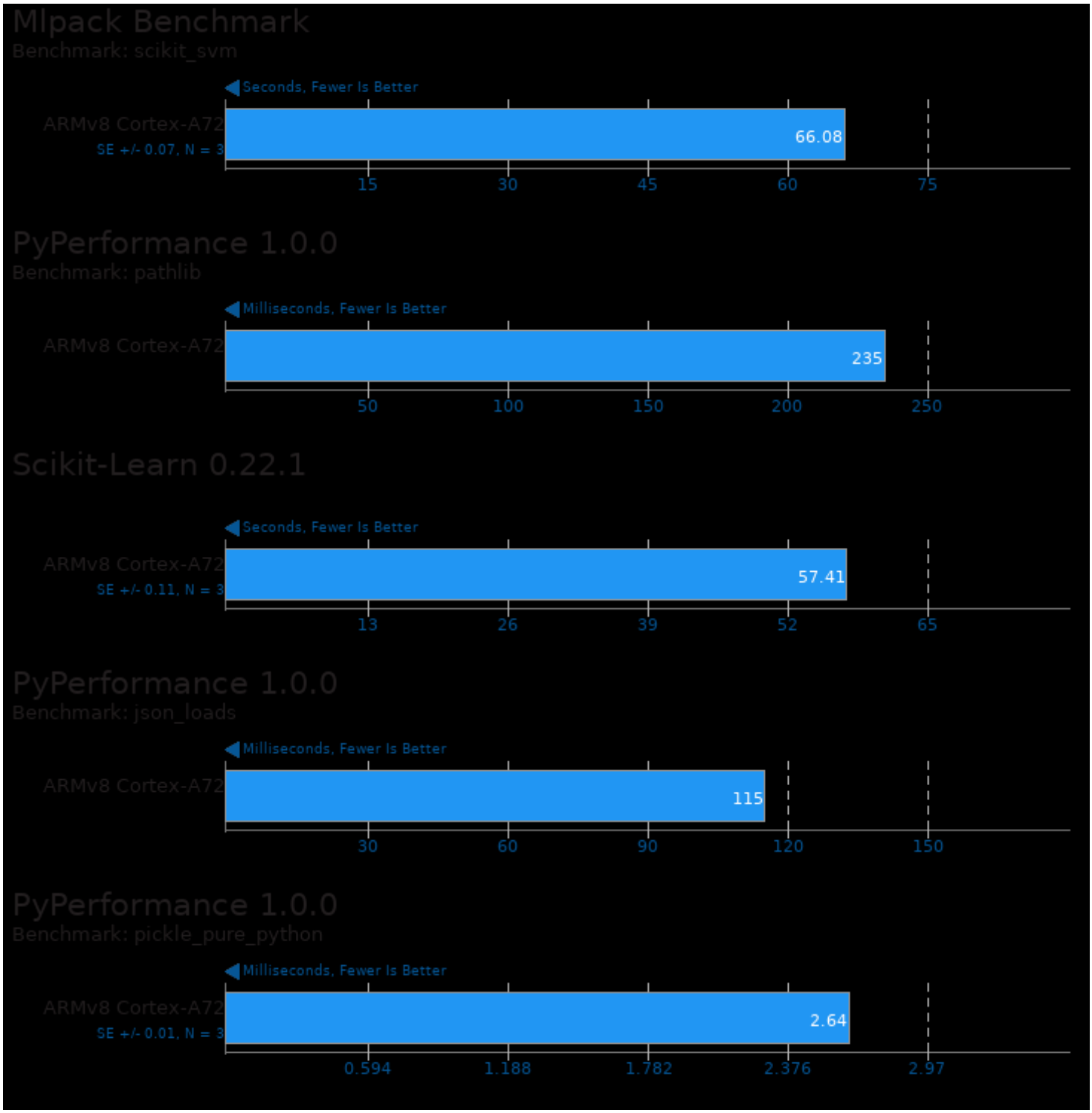
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Numpy Benchmark
Score, More Is Better
ARMv8 Cortex-A72
SE +/- 0.05, N = 3
47.01
11
22
33
44
55
PyPerformance 1.0.0
Benchmark: raytrace
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
SE +/- 0.00, N = 3
2.59
0.5828
1.1656
1.7484
2.3312
2.914
PyPerformance 1.0.0
Benchmark: 2to3
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
SE +/- 0.00, N = 3
1.82
0.4095
0.819
1.2285
1.638
2.0475
PyPerformance 1.0.0
Benchmark: go
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
SE +/- 0.00, N = 3
1.29
0.2903
0.5806
0.8709
1.1612
1.4515
PyPerformance 1.0.0
Benchmark: regex_compile
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
SE +/- 0.33, N = 3
838
200
400
600
800
1000
PyPerformance 1.0.0
Benchmark: python_startup
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
SE +/- 0.03, N = 3
49.3
11
22
33
44
55

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PyPerformance 1.0.0
Benchmark: float
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
SE +/- 0.58, N = 3
610
130
260
390
520
650
PyPerformance 1.0.0
Benchmark: chaos
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
SE +/- 0.58, N = 3
567
120
240
360
480
600
PyBench 2018-02-16
Total For Average Test Times
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
SE +/- 7.31, N = 3
4485
1000
2000
3000
4000
5000
PyPerformance 1.0.0
Benchmark: nbody
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
SE +/- 1.20, N = 3
556
120
240
360
480
600
PyPerformance 1.0.0
Benchmark: crypto_pyaes
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
497
110
220
330
440
550
PyPerformance 1.0.0
Benchmark: django_template
Milliseconds, Fewer Is Better
ARMv8 Cortex-A72
SE +/- 1.00, N = 3
319
70
140
210
280
350

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 20:48.