

www.phoronix-test-suite.com

WebBenches

2 x Intel Xeon Gold 6254 testing with a GIGABYTE MR91-FS0-00 v01000100 (R08 BIOS) and llvmpipe 755GB on Fedora 32 via the Phoronix Test Suite.

Test Systems:

Xeon 6254x2

Processor: 2 x Intel Xeon Gold 6254 @ 4.00GHz (36 Cores / 72 Threads), Motherboard: GIGABYTE MR91-FS0-00 v01000100 (R08 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 773120MB, Disk: 4 x 400GB KXG50ZNV512G TOSHIBA + 16GB USB DISK 3.0 + 128GB SAMSUNG SSD SM84, Graphics: llvmpipe 755GB, Monitor: DELL U2412M, Network: 2 x Intel I350

OS: Fedora 32, Kernel: 5.6.6-300.fc32.x86_64 (x86_64), Desktop: GNOME Shell 3.36.2, Display Server: X Server + Wayland, OpenGL: 3.3 Mesa 20.0.7 (LLVM 10.0.0 256 bits), Compiler: GCC 10.1.1 20200507 + Clang 10.0.0, File-System: ext4, Screen Resolution: 1920x1200

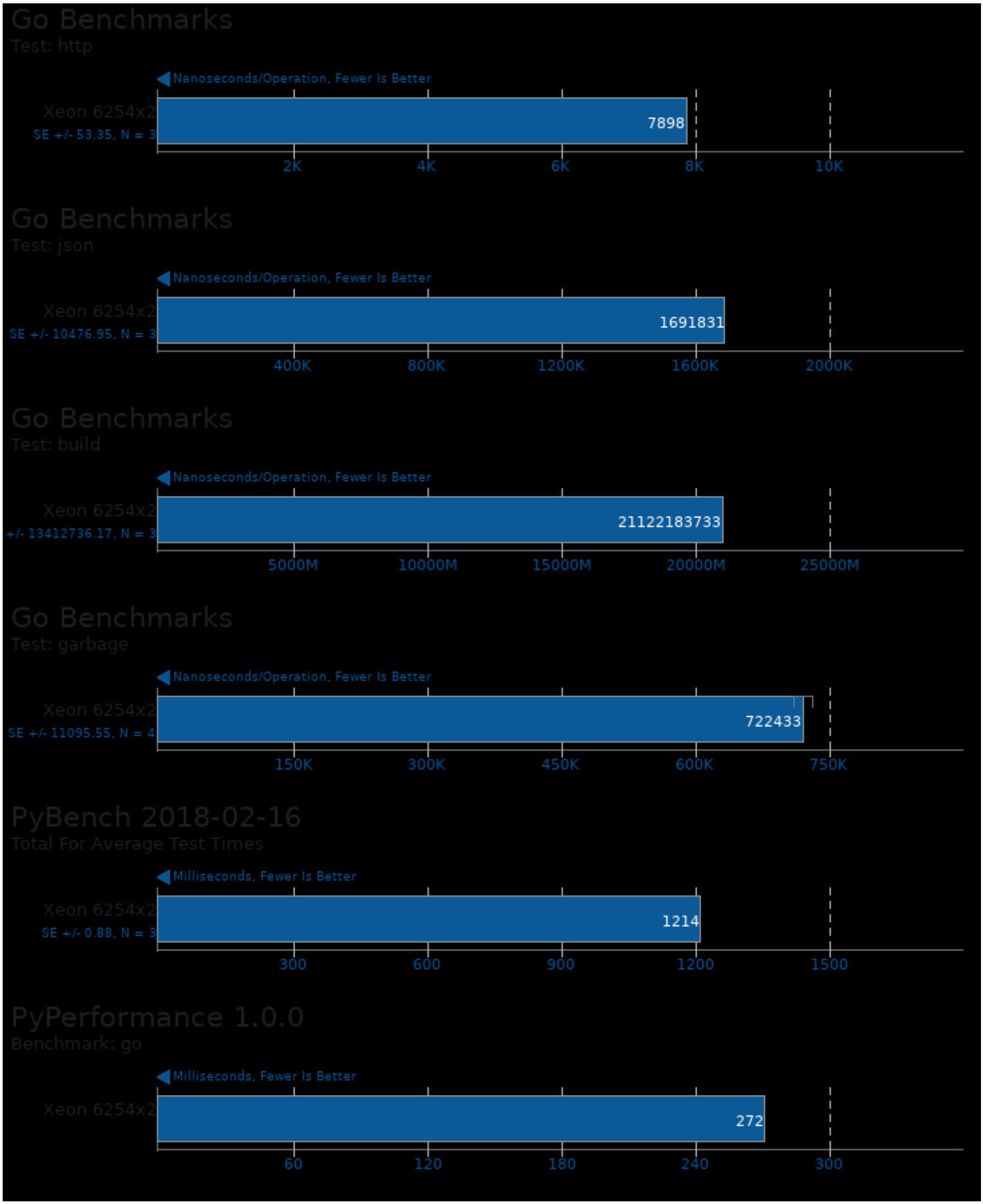
Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-multilib

WebBenches

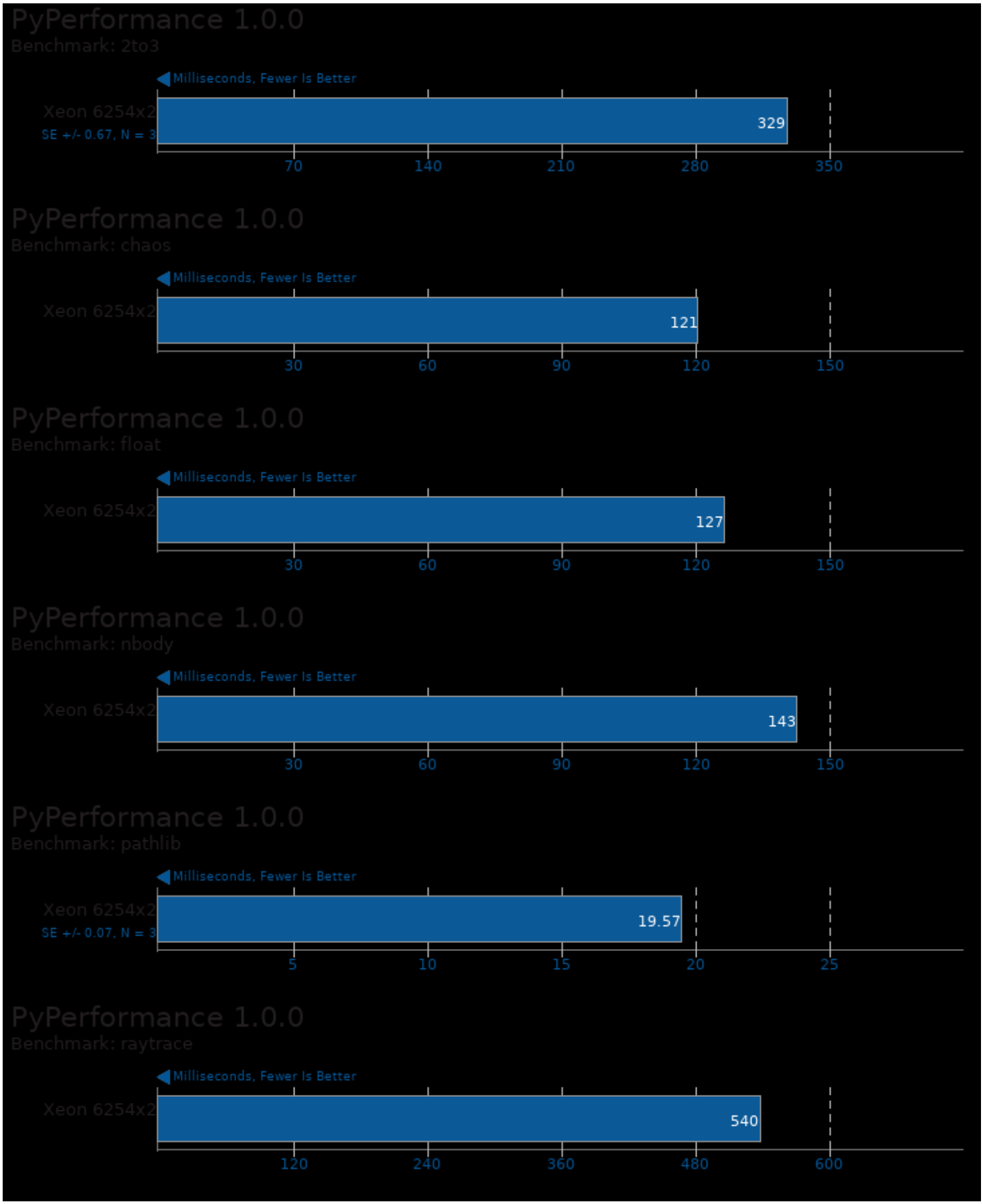
--enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.8.2
Security Notes: SELinux + itlb_multihit: KVM: Mitigation of Split huge pages + 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 Enhanced IBRS IBPB: conditional RSB filling + tsx_async_abort: Mitigation of TSX disabled

	Xeon 6254x2
Go Benchmarks - http (ns/op)	7898
Standard Deviation	1.2%
Go Benchmarks - json (ns/op)	1691831
Standard Deviation	1.1%
Go Benchmarks - build (ns/op)	21122183733
Standard Deviation	0.1%
Go Benchmarks - garbage (ns/op)	722433
Standard Deviation	3.1%
PyBench - T.F.A.T.T (Milliseconds)	1214
Standard Deviation	0.1%
PyPerformance - go (Milliseconds)	272
PyPerformance - 2to3 (Milliseconds)	329
Standard Deviation	0.4%
PyPerformance - chaos (Milliseconds)	121
PyPerformance - float (Milliseconds)	127
PyPerformance - nbody (Milliseconds)	143
PyPerformance - pathlib (Milliseconds)	19.57
Standard Deviation	0.6%
PyPerformance - raytrace (Milliseconds)	540
PyPerformance - json_loads (Milliseconds)	30.60
Standard Deviation	0.3%
PyPerformance - crypto_pyaes (Milliseconds)	126
PyPerformance - regex_compile (Milliseconds)	181
PyPerformance - python_startup (Milliseconds)	8.16
Standard Deviation	1%
PyPerformance - django_template (Milliseconds)	52.47
Standard Deviation	0.1%
PyPerformance - pickle_pure_python (Milliseconds)	474
Standard Deviation	0.2%
Apache Benchmark - S.W.P.S (Reqs/sec)	13206
Standard Deviation	1%
PHPBench - P.B.S (Score)	635764
Standard Deviation	0.8%
PHP Micro Benchmarks - Zend bench (sec)	0.34
Standard Deviation	0.3%
PHP Micro Benchmarks - Zend micro_bench (sec)	1.86
Standard Deviation	0.1%

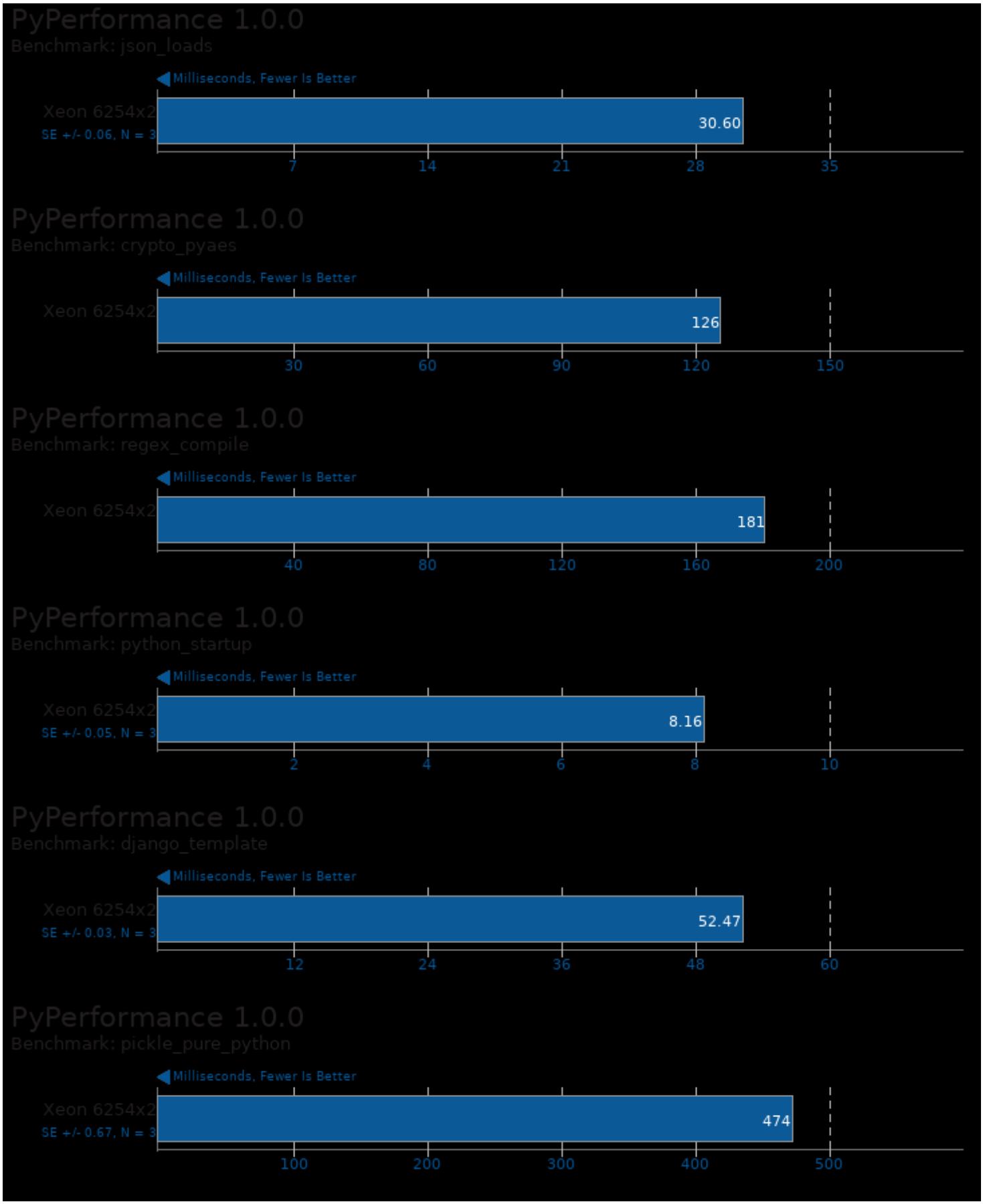
WebBenches

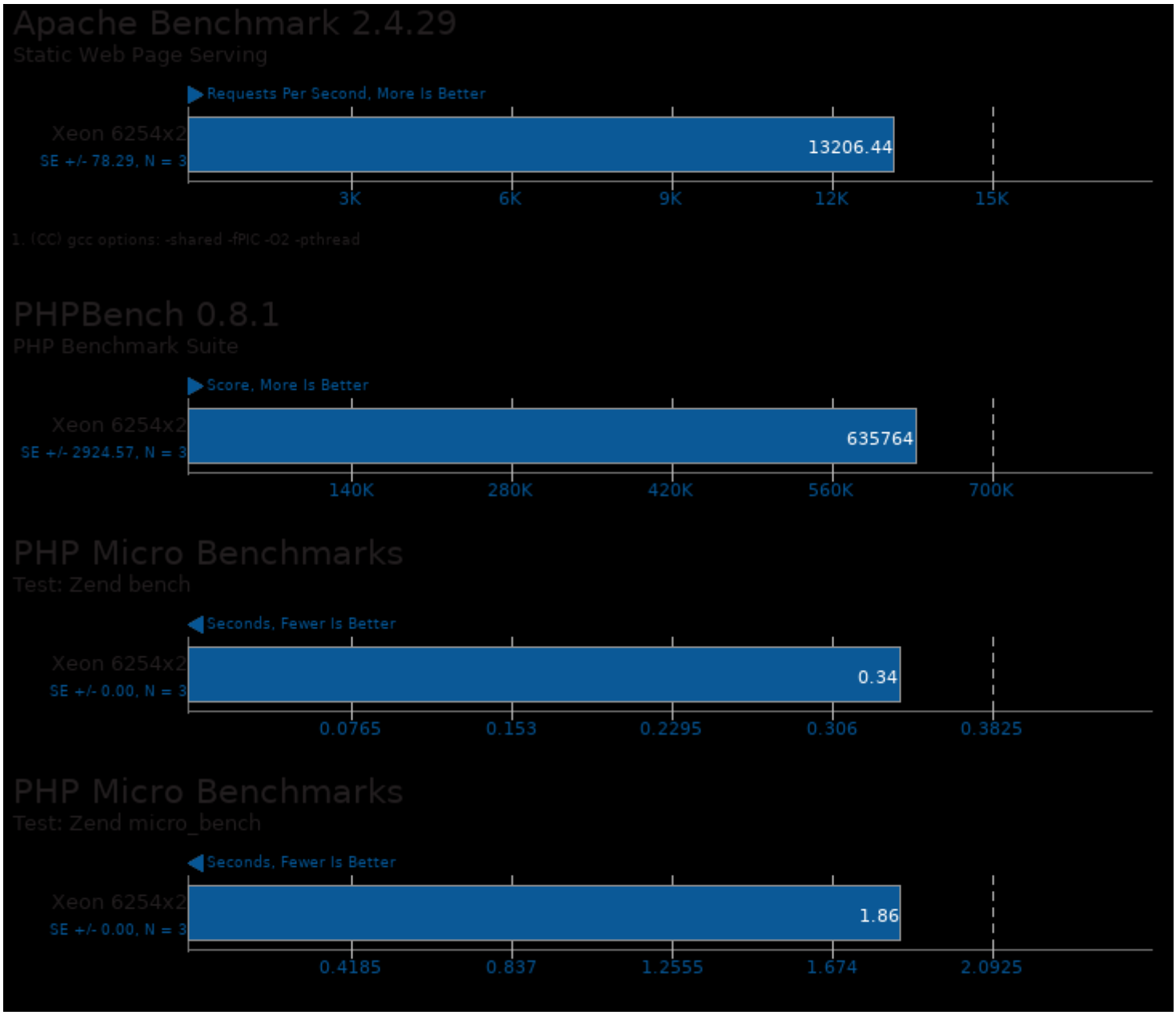

Go Benchmarks
Test: http
Nanoseconds/Operation, Fewer Is Better
Xeon 6254x2
SE +/- 53.35, N = 3
7898
2K
4K
6K
8K
10K
Go Benchmarks
Test: json
Nanoseconds/Operation, Fewer Is Better
Xeon 6254x2
SE +/- 10476.95, N = 3
1691831
400K
800K
1200K
1600K
2000K
Go Benchmarks
Test: build
Nanoseconds/Operation, Fewer Is Better
Xeon 6254x2
+/- 13412736.17, N = 3
21122183733
5000M
10000M
15000M
20000M
25000M
Go Benchmarks
Test: garbage
Nanoseconds/Operation, Fewer Is Better
Xeon 6254x2
SE +/- 11095.55, N = 4
722433
150K
300K
450K
600K
750K
PyBench 2018-02-16
Total For Average Test Times
Milliseconds, Fewer Is Better
Xeon 6254x2
SE +/- 0.88, N = 3
1214
300
600
900
1200
1500
PyPerformance 1.0.0
Benchmark: go
Milliseconds, Fewer Is Better
Xeon 6254x2
272
60
120
180
240
300

WebBenches


PyPerformance 1.0.0
Benchmark: 2to3
Milliseconds, Fewer Is Better
Xeon 6254x2
SE +/- 0.67, N = 3
329
70
140
210
280
350
PyPerformance 1.0.0
Benchmark: chaos
Milliseconds, Fewer Is Better
Xeon 6254x2
121
30
60
90
120
150
PyPerformance 1.0.0
Benchmark: float
Milliseconds, Fewer Is Better
Xeon 6254x2
127
30
60
90
120
150
PyPerformance 1.0.0
Benchmark: nbody
Milliseconds, Fewer Is Better
Xeon 6254x2
143
30
60
90
120
150
PyPerformance 1.0.0
Benchmark: pathlib
Milliseconds, Fewer Is Better
Xeon 6254x2
SE +/- 0.07, N = 3
19.57
5
10
15
20
25
PyPerformance 1.0.0
Benchmark: raytrace
Milliseconds, Fewer Is Better
Xeon 6254x2
540
120
240
360
480
600

WebBenches


PyPerformance 1.0.0
Benchmark: json_loads
Milliseconds, Fewer Is Better
Xeon 6254x2
SE +/- 0.06, N = 3
30.60
7
14
21
28
35
PyPerformance 1.0.0
Benchmark: crypto_pyaes
Milliseconds, Fewer Is Better
Xeon 6254x2
126
30
60
90
120
150
PyPerformance 1.0.0
Benchmark: regex_compile
Milliseconds, Fewer Is Better
Xeon 6254x2
181
40
80
120
160
200
PyPerformance 1.0.0
Benchmark: python_startup
Milliseconds, Fewer Is Better
Xeon 6254x2
SE +/- 0.05, N = 3
8.16
2
4
6
8
10
PyPerformance 1.0.0
Benchmark: django_template
Milliseconds, Fewer Is Better
Xeon 6254x2
SE +/- 0.03, N = 3
52.47
12
24
36
48
60
PyPerformance 1.0.0
Benchmark: pickle_pure_python
Milliseconds, Fewer Is Better
Xeon 6254x2
SE +/- 0.67, N = 3
474
100
200
300
400
500



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 05:20.