



www.phoronix-test-suite.com

app1-7402

VMware testing on CentOS Linux 8 via the Phoronix Test Suite.

Test Systems:

16 x AMD EPYC 7402 24-Core

Processor: 16 x AMD EPYC 7402 24-Core (31 Cores), Motherboard: Intel 440BX (VMW71.00V.13989454.B64.1906190538 BIOS), Chipset: Intel 440BX/ZX/DX, Memory: 4 x 16 GB DRAM VMW-16384MB, Disk: 54GB Virtual disk, Graphics: VMware SVGA II, Network: VMware VMXNET3

OS: CentOS Linux 8, Kernel: 5.9.11-1.el8.elrepo.x86_64 (x86_64), Compiler: GCC 8.3.1 20191121, File-System: xfs, Screen Resolution: 1176x885, System Layer: VMware

Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --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,lto --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver

Processor Notes: CPU Microcode: 0x8301038

Java Notes: OpenJDK Runtime Environment (build 1.8.0_272-b10)

Python Notes: Python 3.6.8

Security Notes: itlb_multihit: Not affected + 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 Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

16 x AMD EPYC 7402 24-Core

IPC_benchmark - TCP Socket - 128 (Messages/sec)	18111810
Standard Deviation	1.9%
IPC_benchmark - TCP Socket - 256 (Messages/sec)	1509110
Standard Deviation	2.6%
IPC_benchmark - TCP Socket - 512 (Messages/sec)	1548909
Standard Deviation	1.1%
IPC_benchmark - TCP Socket - 1024 (Messages/sec)	1305749
Standard Deviation	1.8%
IPC_benchmark - TCP Socket - 2048 (Messages/sec)	903944
Standard Deviation	0.5%
IPC_benchmark - TCP Socket - 4096 (Messages/sec)	644648
Standard Deviation	24.9%
IPC_benchmark - Unnamed Pipe - 128 (Messages/sec)	1661823
Standard Deviation	65.2%
IPC_benchmark - Unnamed Pipe - 256 (Messages/sec)	953693
Standard Deviation	2.5%
IPC_benchmark - Unnamed Pipe - 512 (Messages/sec)	1447747
Standard Deviation	63.6%
IPC_benchmark - Unnamed Pipe - 1024 (Messages/sec)	1097110
Standard Deviation	43.9%
IPC_benchmark - Unnamed Pipe - 2048 (Messages/sec)	577292
Standard Deviation	0.2%
IPC_benchmark - Unnamed Pipe - 4096 (Messages/sec)	569093
Standard Deviation	63.1%
IPC_benchmark - FIFO Named Pipe - 128 (Messages/sec)	981618
Standard Deviation	23.6%
IPC_benchmark - FIFO Named Pipe - 256 (Messages/sec)	823699
Standard Deviation	0.4%
IPC_benchmark - FIFO Named Pipe - 512 (Messages/sec)	844952
Standard Deviation	7.4%
IPC_benchmark - FIFO Named Pipe - 1024 (Messages/sec)	779678
Standard Deviation	14.3%
IPC_benchmark - FIFO Named Pipe - 2048 (Messages/sec)	596413
Standard Deviation	1.2%
IPC_benchmark - FIFO Named Pipe - 4096 (Messages/sec)	448695
Standard Deviation	1.7%
IPC_benchmark - U.U.D.S - 128 (Messages/sec)	846973
Standard Deviation	0.3%
IPC_benchmark - U.U.D.S - 256 (Messages/sec)	801886
Standard Deviation	36.5%
IPC_benchmark - U.U.D.S - 512 (Messages/sec)	892801
Standard Deviation	38.9%
IPC_benchmark - U.U.D.S - 1024 (Messages/sec)	663043
Standard Deviation	0.7%
IPC_benchmark - U.U.D.S - 2048 (Messages/sec)	349687

	Standard Deviation	0.7%
IPC_benchmark - U.U.D.S - 4096 (Messages/sec)	600663	
	Standard Deviation	43.7%
Java Gradle Build - Reactor (sec)	292.215	
	Standard Deviation	6.6%
Timed Linux Kernel Compilation - Time To Compile (sec)	63.140	
	Standard Deviation	1.6%
Gzip Compression - L.S.T.A.T.t.g (sec)	45.599	
	Standard Deviation	0.7%
GnuPG - 2.F.E (sec)	13.918	
	Standard Deviation	0.4%
Perl Benchmarks - Pod2html (sec)	0.15183226	
	Standard Deviation	0.2%
Perl Benchmarks - Interpreter (sec)	0.00117132	
	Standard Deviation	0.3%
OpenSSL - R.4.b.P (Signs/sec)	3711	
	Standard Deviation	0.2%
Memtier_benchmark - Redis (Ops/sec)	1987915	
	Standard Deviation	1.7%
Redis - LPOP (Req/sec)	1821044	
	Standard Deviation	22.3%
Redis - SADD (Req/sec)	15555586	
	Standard Deviation	8.2%
Redis - LPUSH (Req/sec)	1139410	
	Standard Deviation	0.6%
Redis - GET (Req/sec)	1631374	
	Standard Deviation	2.9%
Redis - SET (Req/sec)	1390312	
	Standard Deviation	3%
Apache Cassandra - Reads (Op/s)	33047	
	Standard Deviation	0.8%
Apache Cassandra - Writes (Op/s)	50622	
	Standard Deviation	0.5%
Apache Cassandra - Mixed 1:1 (Op/s)	42667	
	Standard Deviation	0.7%
Apache Cassandra - Mixed 1:3 (Op/s)	38125	
	Standard Deviation	6%
PyPerformance - go (Milliseconds)	443	
PyPerformance - 2to3 (Milliseconds)	513	
	Standard Deviation	0.2%
PyPerformance - chaos (Milliseconds)	210	
PyPerformance - float (Milliseconds)	178	
	Standard Deviation	0.3%
PyPerformance - nbody (Milliseconds)	191	
	Standard Deviation	0.6%
PyPerformance - pathlib (Milliseconds)	26.3	
	Standard Deviation	0%
PyPerformance - raytrace (Milliseconds)	975	
	Standard Deviation	0.4%
PyPerformance - json_loads (Milliseconds)	39.1	
	Standard Deviation	0%
PyPerformance - crypto_pyaes (Milliseconds)	196	
PyPerformance - regex_compile (Milliseconds)	316	

PyPerformance - python_startup (Milliseconds) 12.5
Standard Deviation 0.5%

PyPerformance - django_template (Milliseconds) 121

PyPerformance - pickle_pure_python (Milliseconds) 879
Standard Deviation 0.3%

Apache Benchmark - S.W.P.S (Req/s) 25967
Standard Deviation 5.5%

PHPBench - P.B.S (Score) 464227
Standard Deviation 0.2%

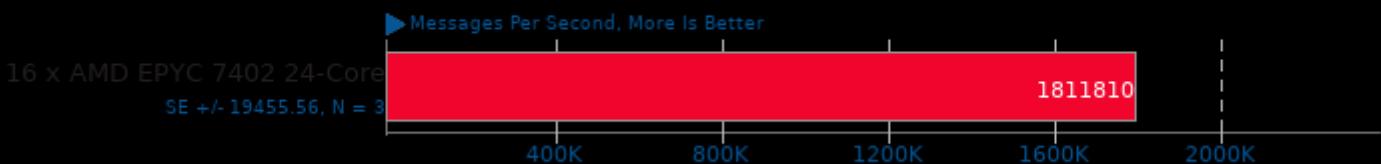
InfluxDB - 4 - 10000 - 2,5000,1 - 10000 (val/sec) 1109417
Standard Deviation 0.2%

InfluxDB - 64 - 10000 - 2,5000,1 - 10000 (val/sec) 1274077
Standard Deviation 0.3%

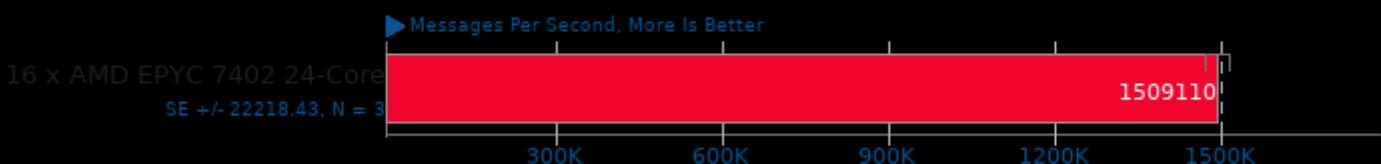
InfluxDB - 1024 - 10000 - 2,5000,1 - 10000 (val/sec) 1309233
Standard Deviation 0.2%

IPC_benchmark

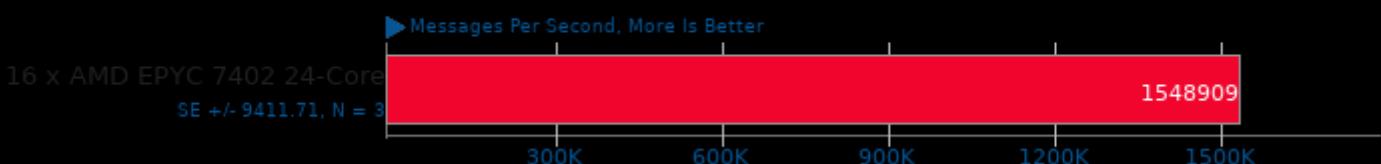
Type: TCP Socket - Message Bytes: 128

**IPC_benchmark**

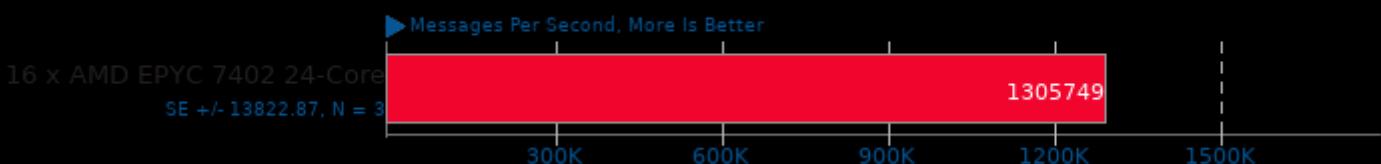
Type: TCP Socket - Message Bytes: 256

**IPC_benchmark**

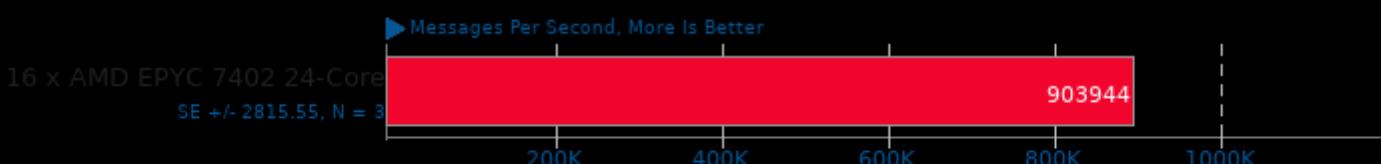
Type: TCP Socket - Message Bytes: 512

**IPC_benchmark**

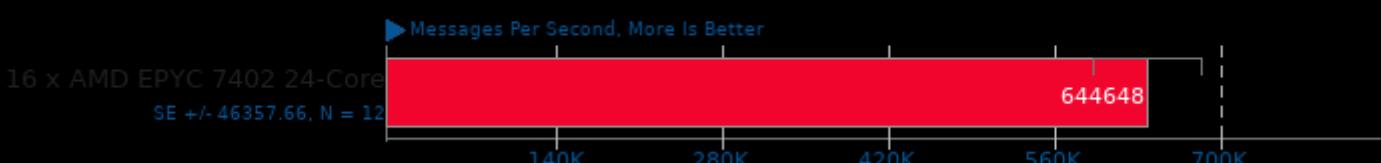
Type: TCP Socket - Message Bytes: 1024

**IPC_benchmark**

Type: TCP Socket - Message Bytes: 2048

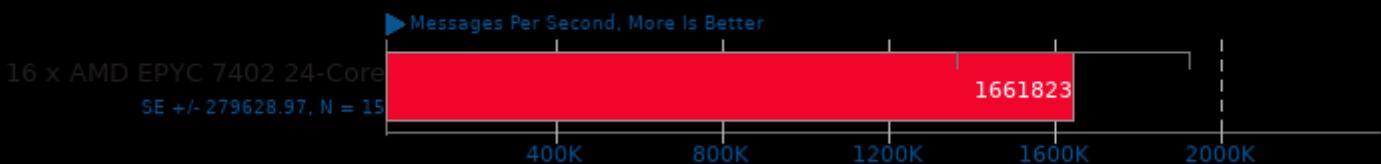
**IPC_benchmark**

Type: TCP Socket - Message Bytes: 4096

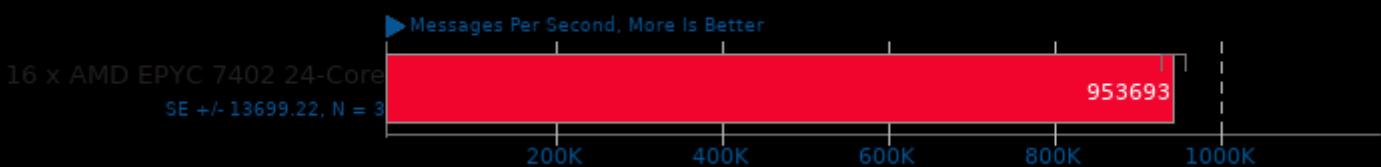


IPC_benchmark

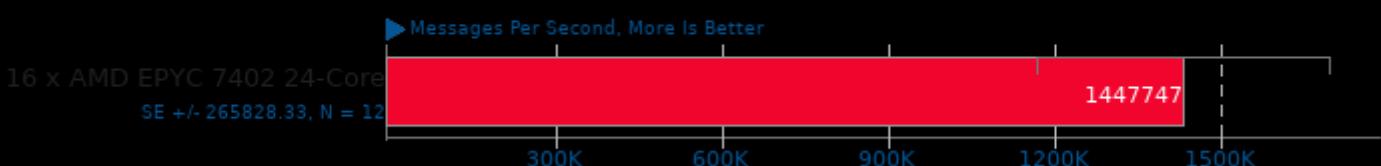
Type: Unnamed Pipe - Message Bytes: 128

**IPC_benchmark**

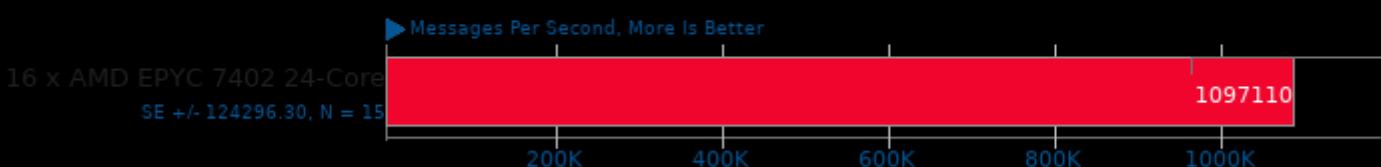
Type: Unnamed Pipe - Message Bytes: 256

**IPC_benchmark**

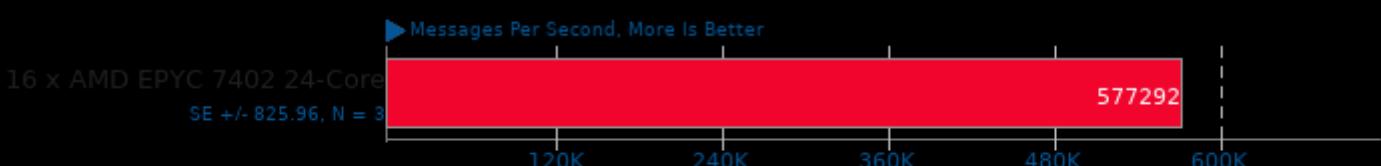
Type: Unnamed Pipe - Message Bytes: 512

**IPC_benchmark**

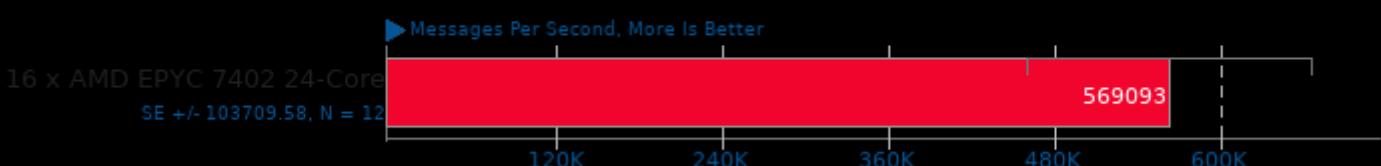
Type: Unnamed Pipe - Message Bytes: 1024

**IPC_benchmark**

Type: Unnamed Pipe - Message Bytes: 2048

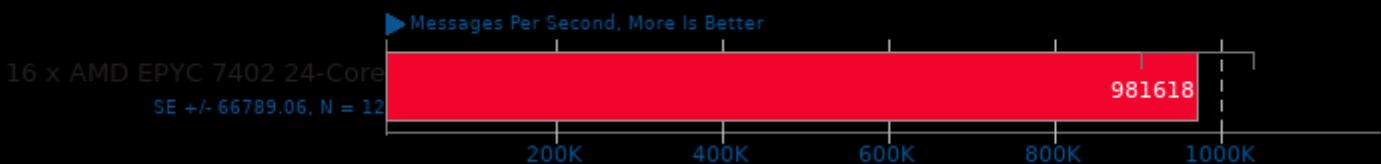
**IPC_benchmark**

Type: Unnamed Pipe - Message Bytes: 4096

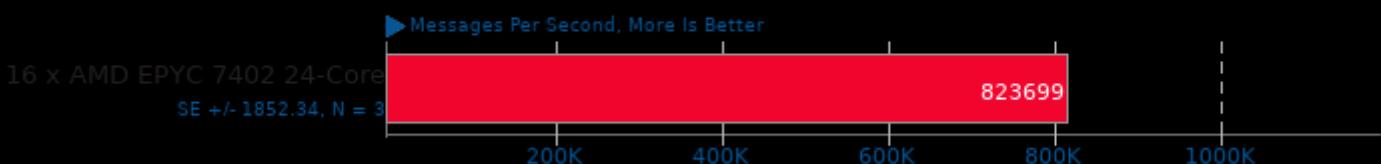


IPC_benchmark

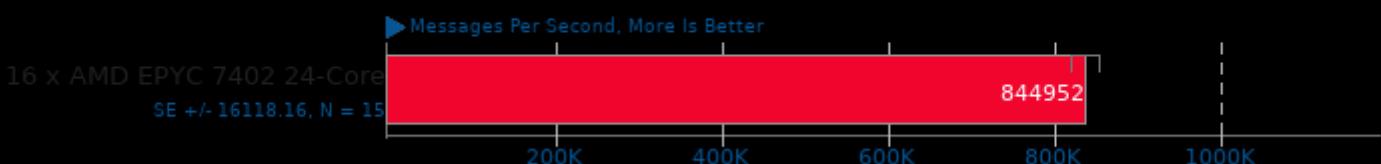
Type: FIFO Named Pipe - Message Bytes: 128

**IPC_benchmark**

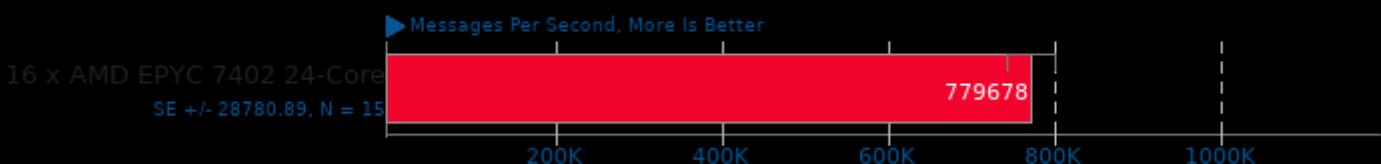
Type: FIFO Named Pipe - Message Bytes: 256

**IPC_benchmark**

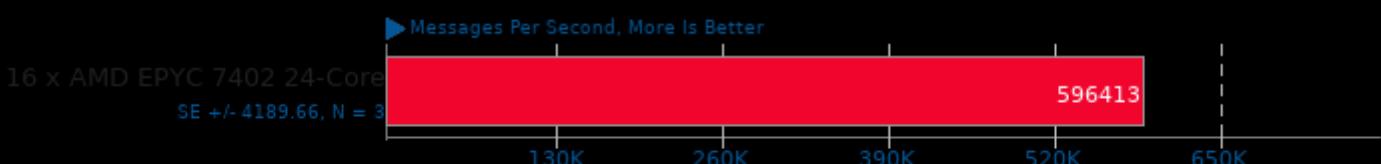
Type: FIFO Named Pipe - Message Bytes: 512

**IPC_benchmark**

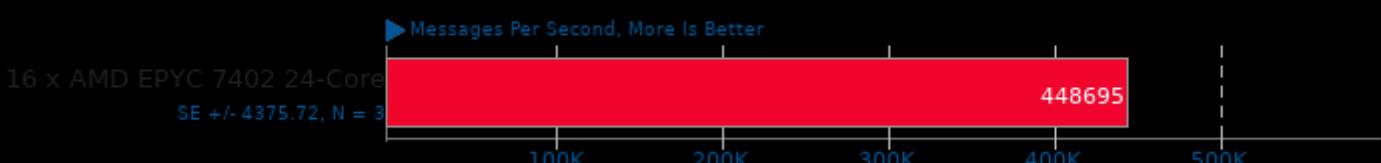
Type: FIFO Named Pipe - Message Bytes: 1024

**IPC_benchmark**

Type: FIFO Named Pipe - Message Bytes: 2048

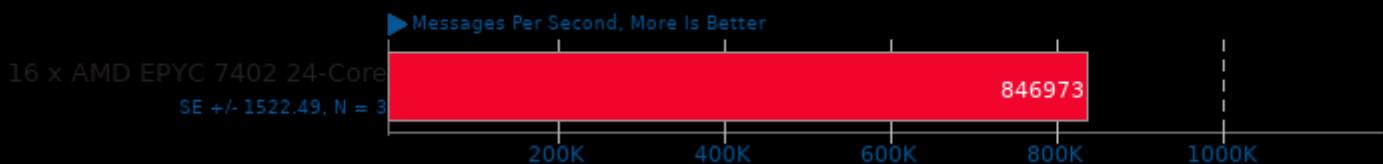
**IPC_benchmark**

Type: FIFO Named Pipe - Message Bytes: 4096

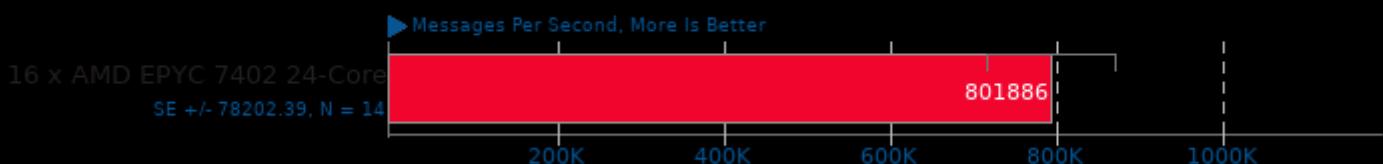


IPC_benchmark

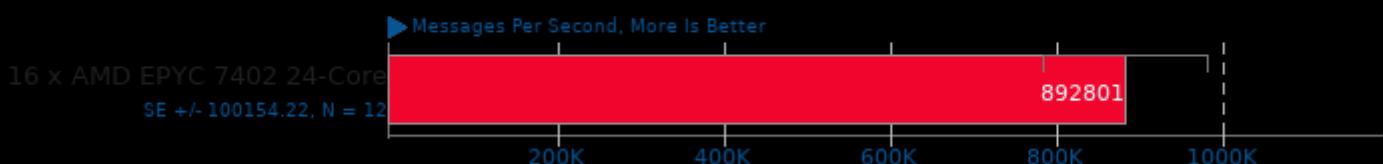
Type: Unnamed Unix Domain Socket - Message Bytes: 128

**IPC_benchmark**

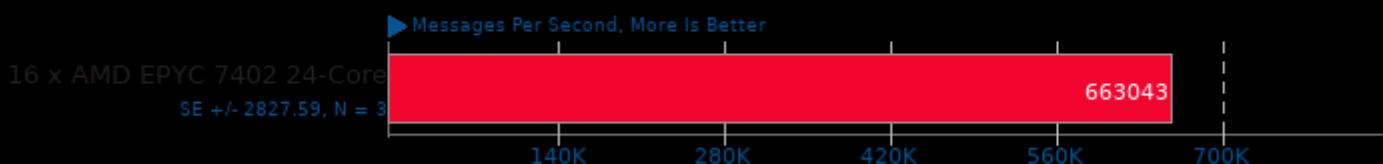
Type: Unnamed Unix Domain Socket - Message Bytes: 256

**IPC_benchmark**

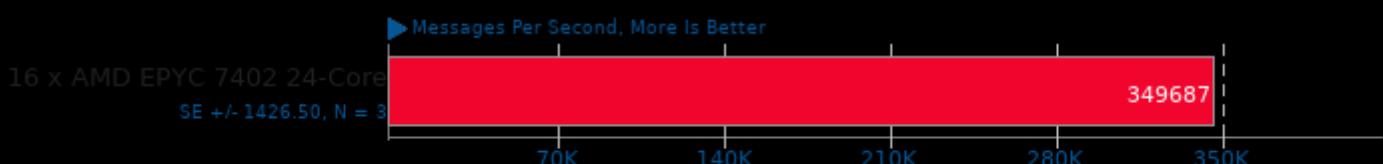
Type: Unnamed Unix Domain Socket - Message Bytes: 512

**IPC_benchmark**

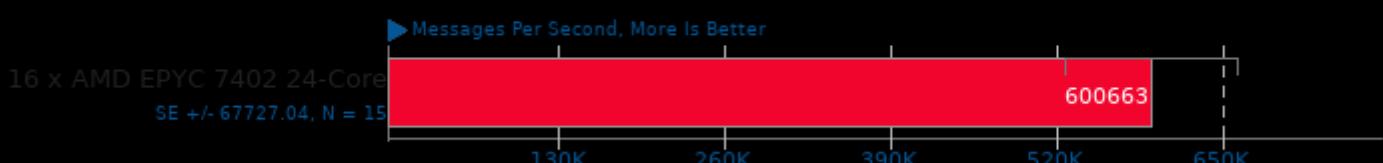
Type: Unnamed Unix Domain Socket - Message Bytes: 1024

**IPC_benchmark**

Type: Unnamed Unix Domain Socket - Message Bytes: 2048

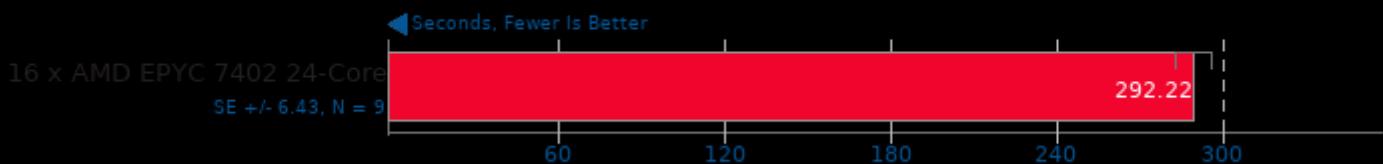
**IPC_benchmark**

Type: Unnamed Unix Domain Socket - Message Bytes: 4096



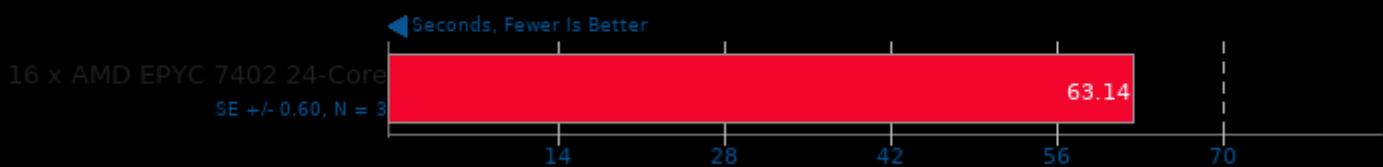
Java Gradle Build

Gradle Build: Reactor



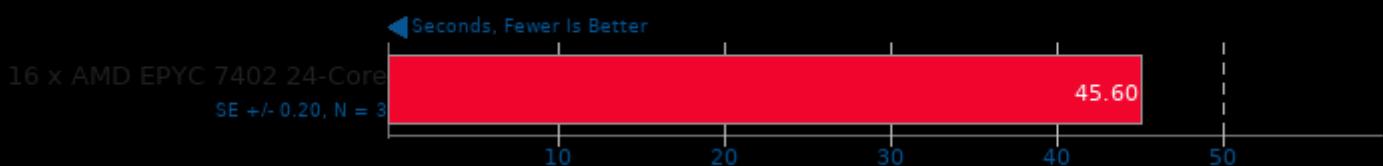
Timed Linux Kernel Compilation 5.4

Time To Compile



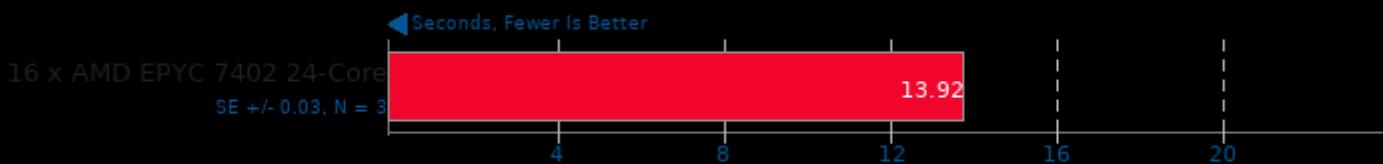
Gzip Compression

Linux Source Tree Archiving To .tar.gz



GnuPG 1.4.22

2GB File Encryption



1. (CC) gcc options: -O2 -MT -MD -MP -MF

Perl Benchmarks

Test: Pod2html



Perl Benchmarks

Test: Interpreter



OpenSSL 1.1.1

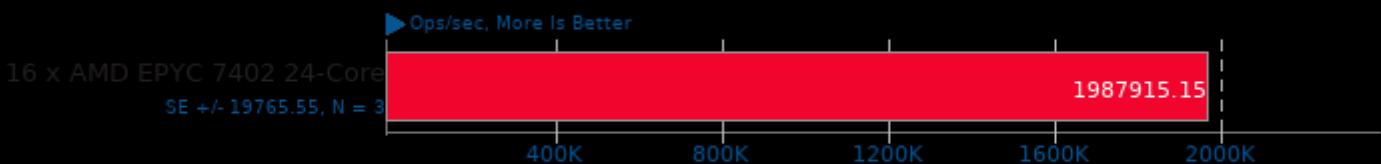
RSA 4096-bit Performance



1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl

Memtier_benchmark 1.2.17

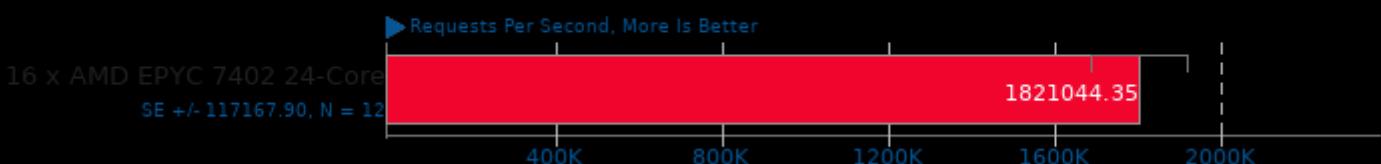
Protocol: Redis



1. (CXX) g++ options: -O2 -levent -lpthread -lz -lpcre

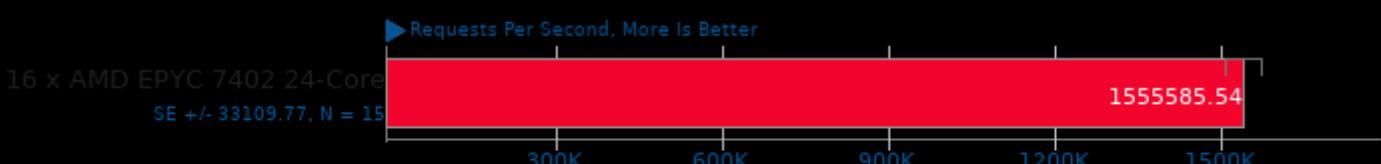
Redis 5.0.3

Test: LPOP



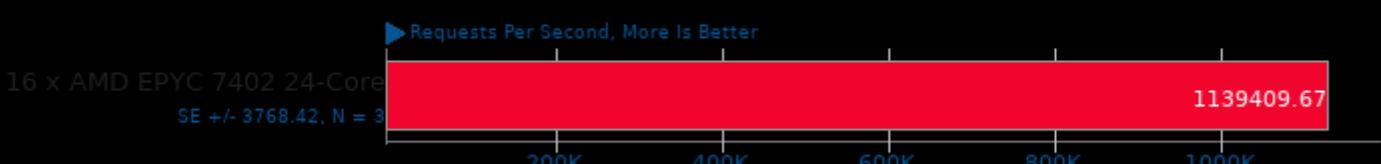
Redis 5.0.3

Test: SADD



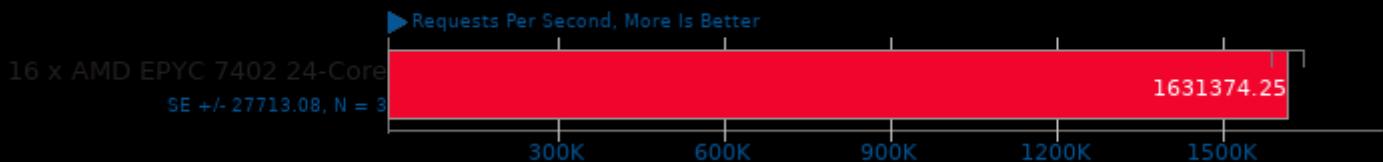
Redis 5.0.3

Test: LPUSH



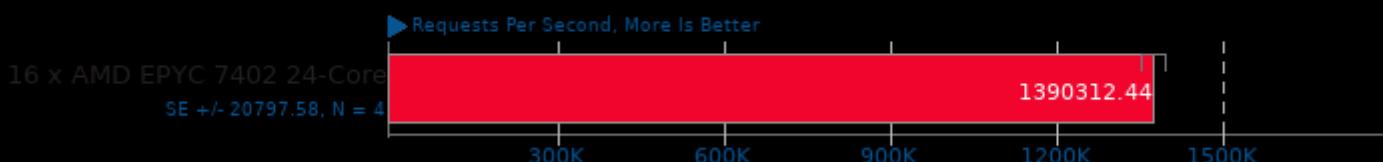
Redis 5.0.3

Test: GET



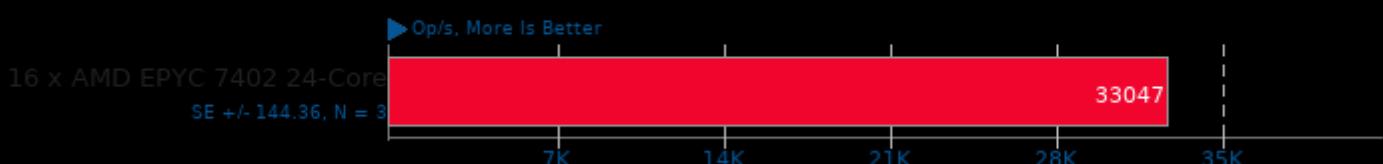
Redis 5.0.3

Test: SET



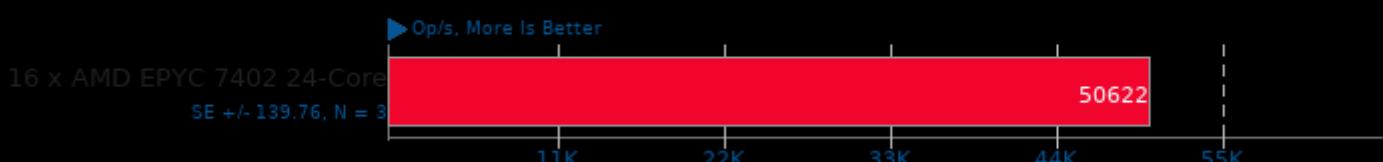
Apache Cassandra 3.11.4

Test: Reads



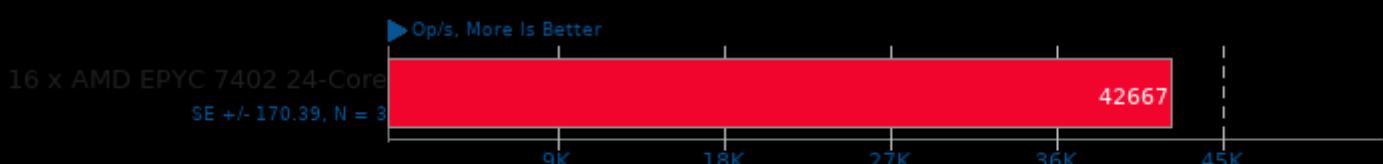
Apache Cassandra 3.11.4

Test: Writes



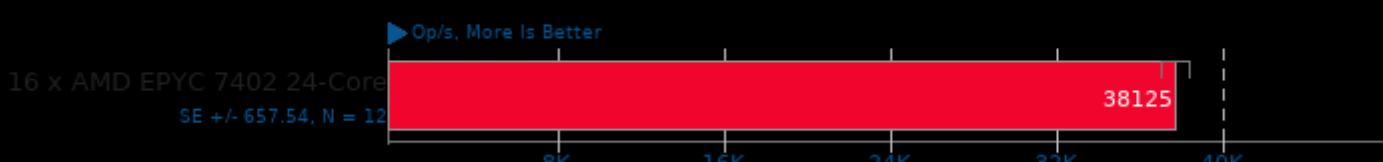
Apache Cassandra 3.11.4

Test: Mixed 1:1



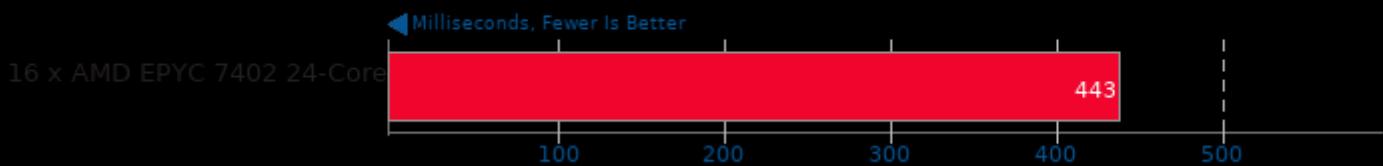
Apache Cassandra 3.11.4

Test: Mixed 1:3



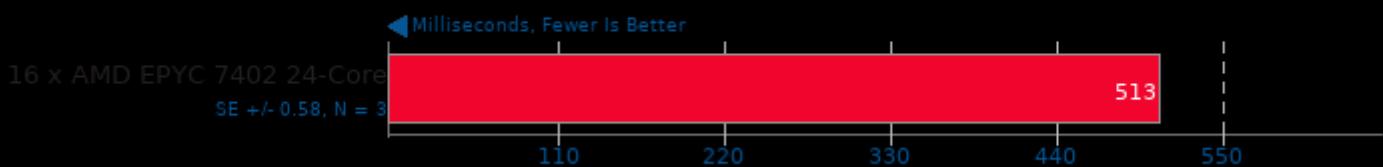
PyPerformance 1.0.0

Benchmark: go



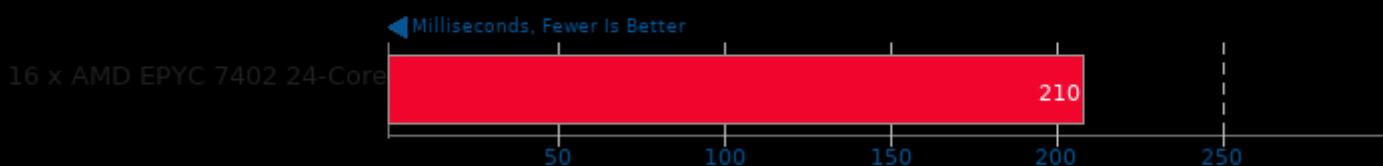
PyPerformance 1.0.0

Benchmark: 2to3



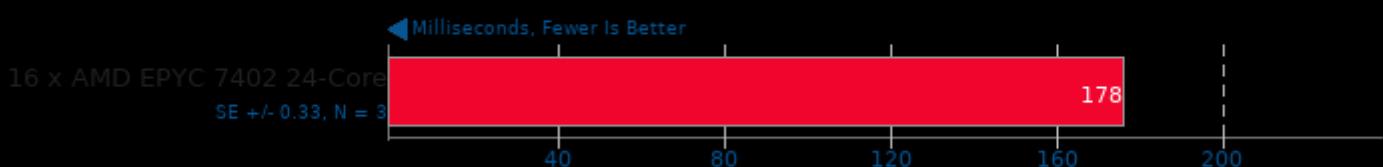
PyPerformance 1.0.0

Benchmark: chaos



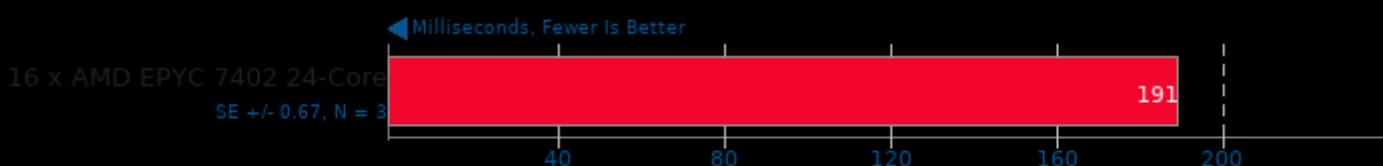
PyPerformance 1.0.0

Benchmark: float



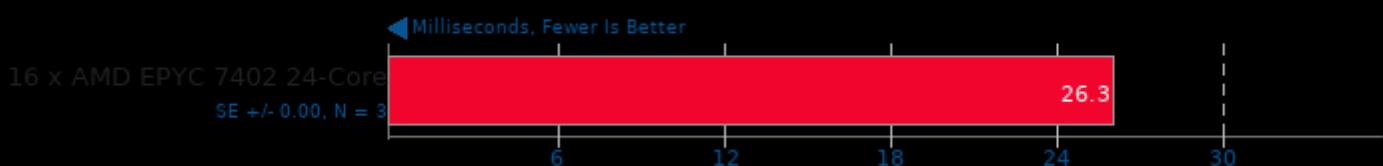
PyPerformance 1.0.0

Benchmark: nbody



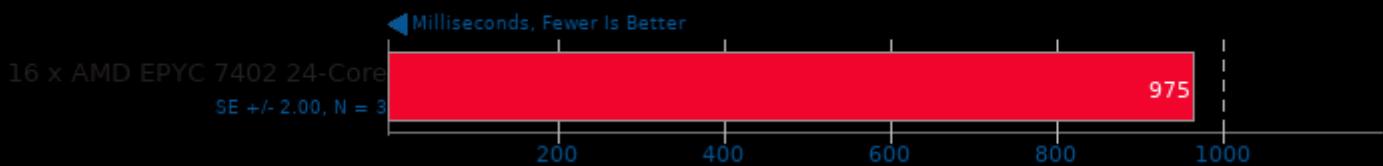
PyPerformance 1.0.0

Benchmark: pathlib



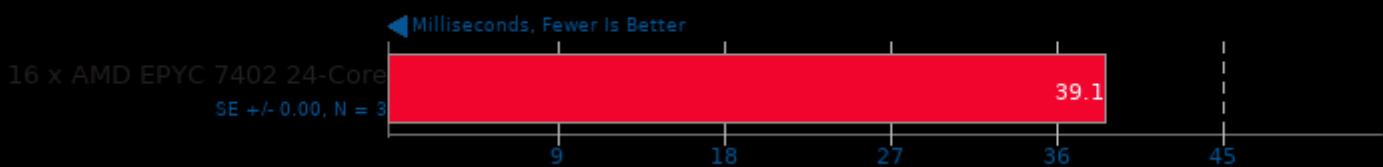
PyPerformance 1.0.0

Benchmark: raytrace



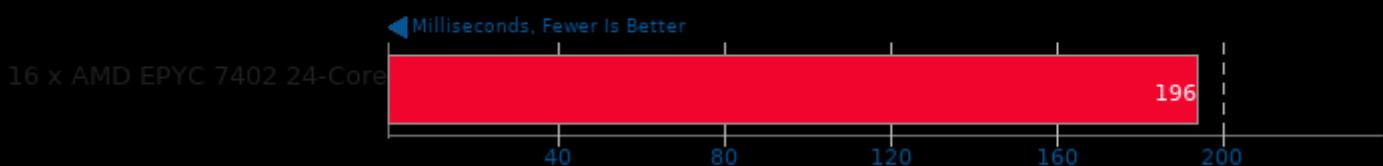
PyPerformance 1.0.0

Benchmark: json.loads



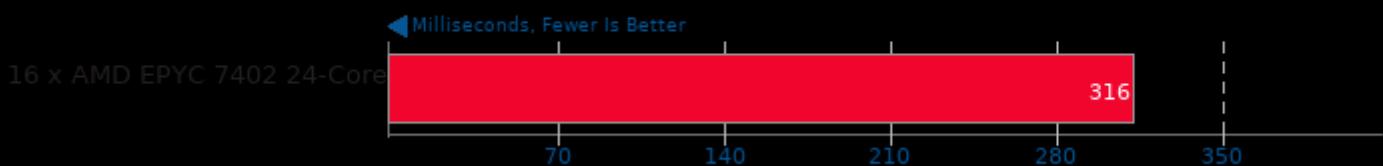
PyPerformance 1.0.0

Benchmark: crypto_pyaes



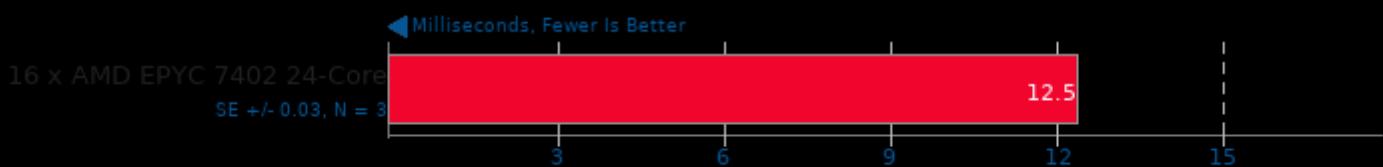
PyPerformance 1.0.0

Benchmark: regex_compile



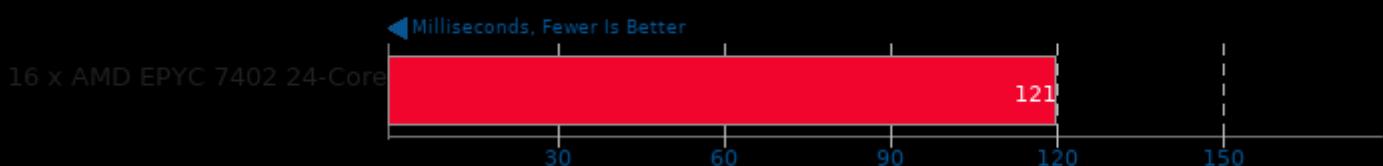
PyPerformance 1.0.0

Benchmark: python_startup



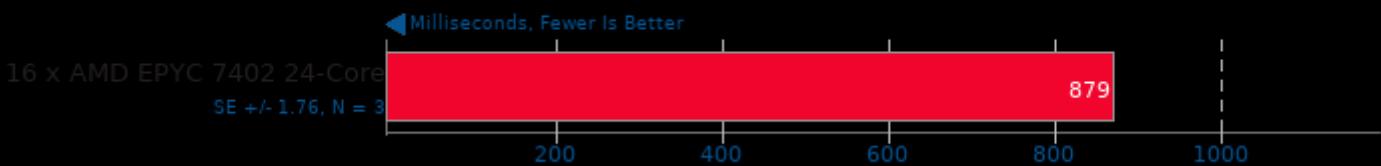
PyPerformance 1.0.0

Benchmark: django_template



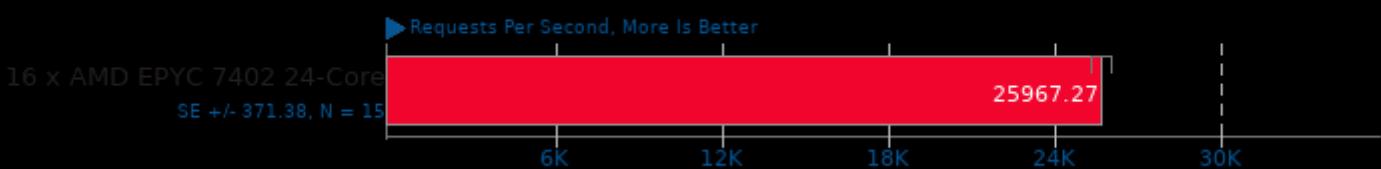
PyPerformance 1.0.0

Benchmark: pickle_pure_python



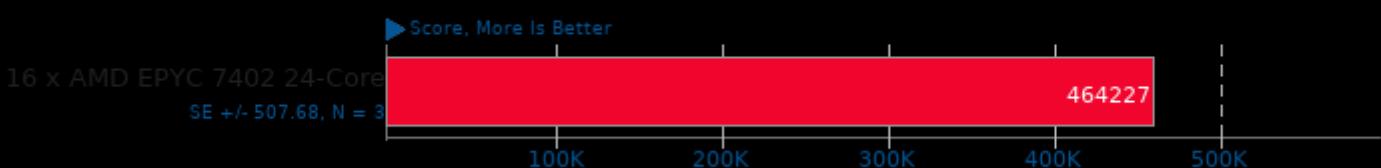
Apache Benchmark 2.4.29

Static Web Page Serving



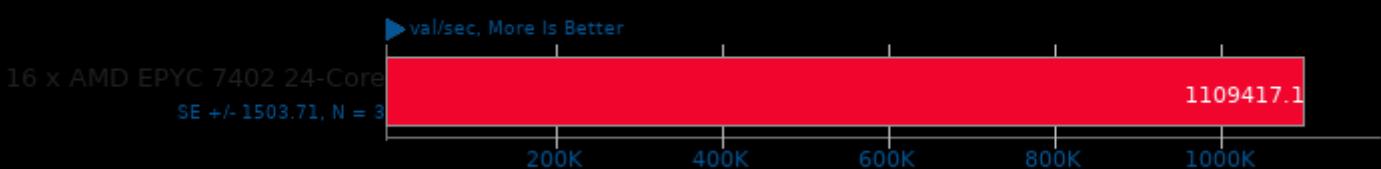
PHPBench 0.8.1

PHP Benchmark Suite



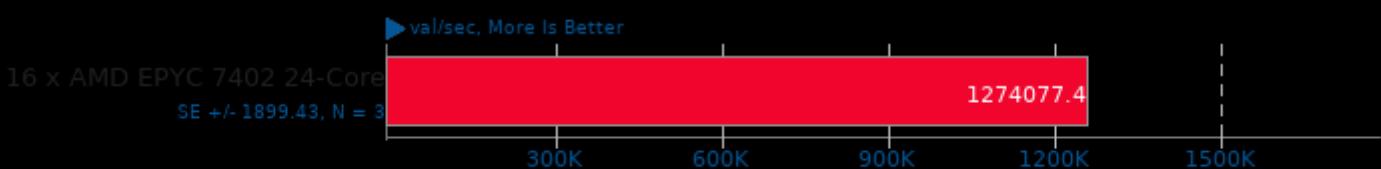
InfluxDB 1.8.2

Concurrent Streams: 4 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000



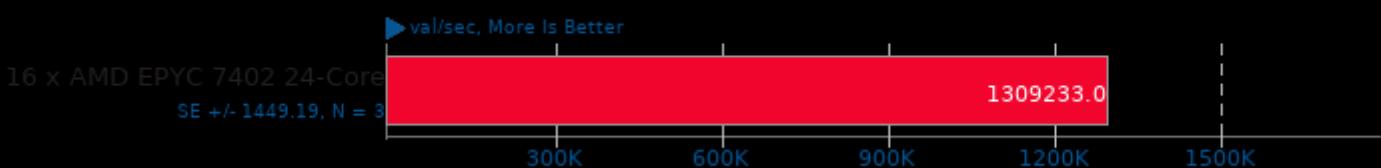
InfluxDB 1.8.2

Concurrent Streams: 64 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000



InfluxDB 1.8.2

Concurrent Streams: 1024 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000



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

14:27.