

www.phoronix-test-suite.com

2021-08-27-1511

ARMv8 Neoverse-N1 testing on Amazon Linux 2 via the Phoronix Test Suite.

Test Systems:

AWS_EC2_r6g.large

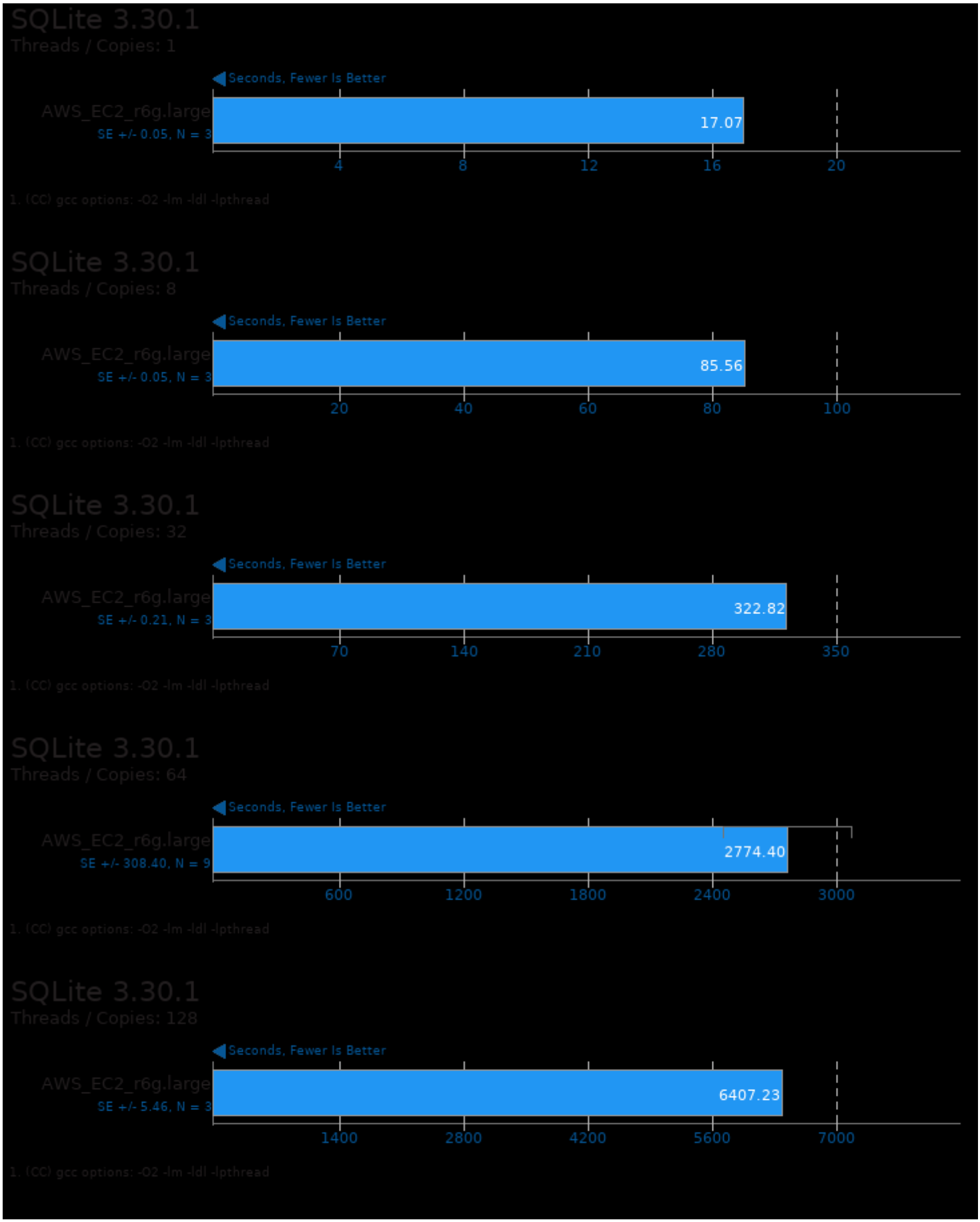
Processor: ARMv8 Neoverse-N1 (2 Cores), Motherboard: Amazon EC2 r6g.large (1.0 BIOS), Chipset: Amazon Device 0200, Memory: 16GB, Disk: 215GB Amazon Elastic Block Store, Network: Amazon Elastic

OS: Amazon Linux 2, Kernel: 4.14.238-182.422.amzn2.aarch64 (aarch64) 20210720, Compiler: GCC 7.3.1 20180712, File-System: xfs

Kernel Notes: nvme_core.io_timeout=4294967295 - Transparent Huge Pages: madvise
Compiler Notes: --build=aarch64-redhat-linux --disable-libcilkrts --disable-libmpx --disable-libquadmath --disable-libunwind-exceptions --disable-multilib --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,ada,go,lto --enable-libatomic --enable-libitm --enable-libsanitizer --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu
Disk Notes: NONE / attr2,inode64,noatime,noquota,rw / Block Size: 4096
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Not affected + srbds: Not affected + tsx_async_abort: Not affected

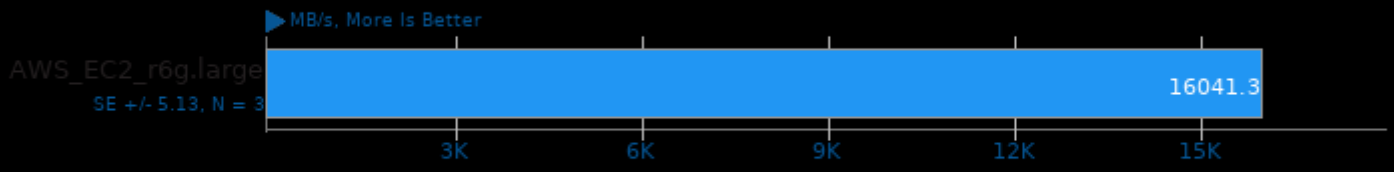
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	AWS_EC2_r6g.large
SQLite - 1 (sec)	17.070
Standard Deviation	0.5%
SQLite - 8 (sec)	85.556
Standard Deviation	0.1%
SQLite - 32 (sec)	322.823
Standard Deviation	0.1%
SQLite - 64 (sec)	2774
Standard Deviation	33.3%
SQLite - 128 (sec)	6407
Standard Deviation	0.1%
Tinymembench - Standard Memcpy (MB/s)	16041
Standard Deviation	0.1%
Tinymembench - Standard Memset (MB/s)	39908
Standard Deviation	0%
Timed Linux Kernel Compilation - Time To Compile (sec)	1581
Standard Deviation	0.1%
System BZIP2 Decompression (sec)	15.004
Standard Deviation	0.2%
System GZIP Decompression (sec)	4.257
Standard Deviation	0.2%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	98.917
Standard Deviation	0.2%


SQLite 3.30.1
Threads / Copies: 1
Seconds, Fewer Is Better
AWS_EC2_r6g.large
SE +/- 0.05, N = 3
17.07
4
8
12
16
20
1. (CC) gcc options: -O2 -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 8
Seconds, Fewer Is Better
AWS_EC2_r6g.large
SE +/- 0.05, N = 3
85.56
20
40
60
80
100
1. (CC) gcc options: -O2 -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 32
Seconds, Fewer Is Better
AWS_EC2_r6g.large
SE +/- 0.21, N = 3
322.82
70
140
210
280
350
1. (CC) gcc options: -O2 -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 64
Seconds, Fewer Is Better
AWS_EC2_r6g.large
SE +/- 308.40, N = 9
2774.40
600
1200
1800
2400
3000
1. (CC) gcc options: -O2 -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 128
Seconds, Fewer Is Better
AWS_EC2_r6g.large
SE +/- 5.46, N = 3
6407.23
1400
2800
4200
5600
7000
1. (CC) gcc options: -O2 -lm -ldl -lpthread

Tinymembench 2018-05-28

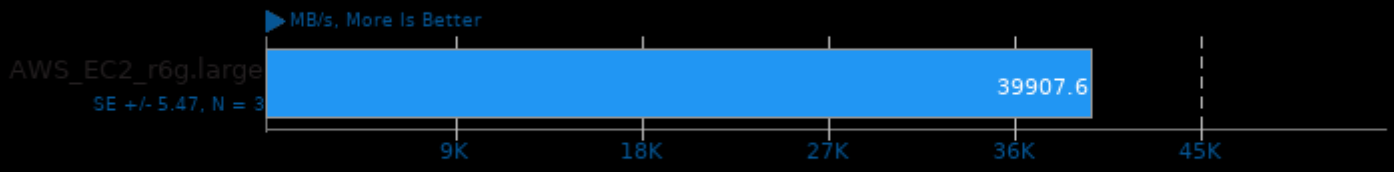
Standard Memcpy



1. (CC) gcc options: -O2 -lm

Tinymembench 2018-05-28

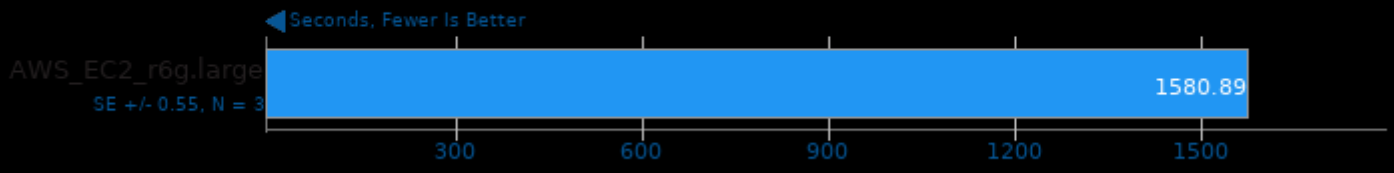
Standard Memset



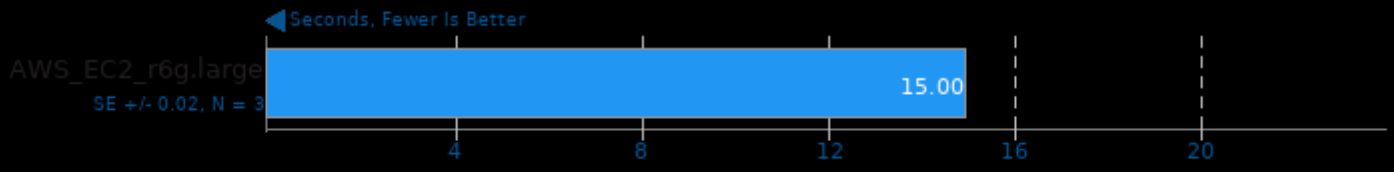
1. (CC) gcc options: -O2 -lm

Timed Linux Kernel Compilation 5.10.20

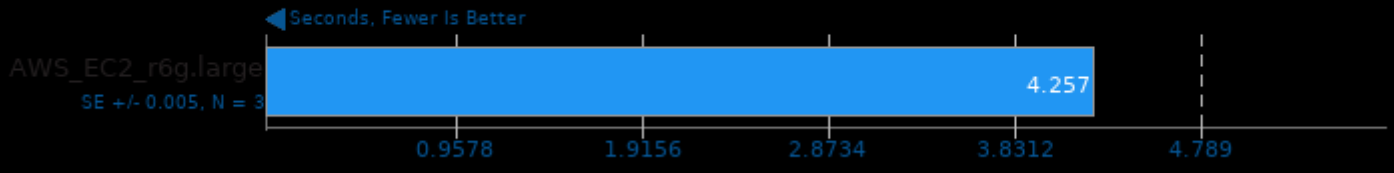
Time To Compile

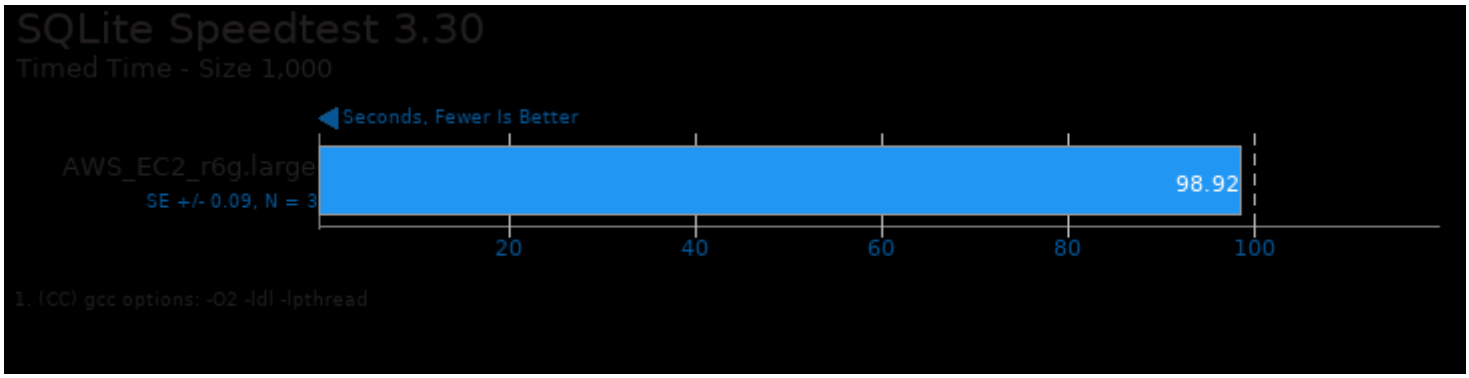


System BZIP2 Decompression



System GZIP Decompression





This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 08:48.