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TestingFull

2 x AMD EPYC 7452 32-Core testing with a HPE ProLiant DL385 Gen10 Plus (A42 BIOS) and Matrox MGA G200eH3 on Red Hat Enterprise Linux 8.0 via the Phoronix Test Suite.

Test Systems:

2 x AMD EPYC 7452 32-Core - Matrox MGA G200eH3 - HPE

Processor: 2 x AMD EPYC 7452 32-Core (64 Cores / 128 Threads), Motherboard: HPE ProLiant DL385 Gen10 Plus (A42 BIOS), Chipset: AMD Starship/Matisse, Memory: 16 x 32 GB DDR4-3200MT/s Hynix HMA84GR7DJR4N-XN, Disk: 800GB LOGICAL VOLUME + 9602GB LOGICAL VOLUME, Graphics: Matrox MGA G200eH3, Network: 4 x QLogic FastLinQ QL41000 10/25/40/50GbE + 4 x Intel I350

OS: Red Hat Enterprise Linux 8.0, Kernel: 4.18.0-80.el8.x86_64 (x86_64), Compiler: GCC 8.2.1 20180905, File-System: xfs, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: always
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

TestingFull

--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: 0x830104d
Security Notes: SELinux + l1tf: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling

	2 x AMD EPYC 7452 32-Core - Matrox MGA G200eH3 - HPE
Stress-NG - S.V.M.P (Bogo Ops/s)	4266594
Standard Deviation	0.5%
Stress-NG - G.Q.D.S (Bogo Ops/s)	781.43
Standard Deviation	0.2%
Stress-NG - G.C.S.F (Bogo Ops/s)	5734955
Standard Deviation	5.2%
Stress-NG - Memory Copying (Bogo Ops/s)	12546
Standard Deviation	1.7%
Stress-NG - Vector Math (Bogo Ops/s)	457883
Standard Deviation	0.1%
Stress-NG - Matrix Math (Bogo Ops/s)	284078
Standard Deviation	0.2%
Stress-NG - Semaphores (Bogo Ops/s)	12669626
Standard Deviation	0.8%
Stress-NG - CPU Stress (Bogo Ops/s)	22007
Standard Deviation	0.5%
Stress-NG - SENDFILE (Bogo Ops/s)	902443
Standard Deviation	1%
Stress-NG - Forking (Bogo Ops/s)	34421
Standard Deviation	0.5%
Stress-NG - Malloc (Bogo Ops/s)	1224333702
Standard Deviation	0.6%
Stress-NG - Crypto (Bogo Ops/s)	12889
Standard Deviation	0.2%
Stress-NG - Atomic (Bogo Ops/s)	394158
Standard Deviation	0.1%
Stress-NG - MEMFD (Bogo Ops/s)	2349
Standard Deviation	1.3%
Stress-NG - NUMA (Bogo Ops/s)	4.86
Standard Deviation	1.5%
Stress-NG - MMAP (Bogo Ops/s)	3015
Standard Deviation	0.3%
Stress-NG - Context Switching (Bogo Ops/s)	21101175
Standard Deviation	22.3%
Stress-NG - Socket Activity (Bogo Ops/s)	2970
Standard Deviation	112.2%
Stress-NG - CPU Cache (Bogo Ops/s)	74.28
Standard Deviation	8.5%

Stress-NG 0.11.07

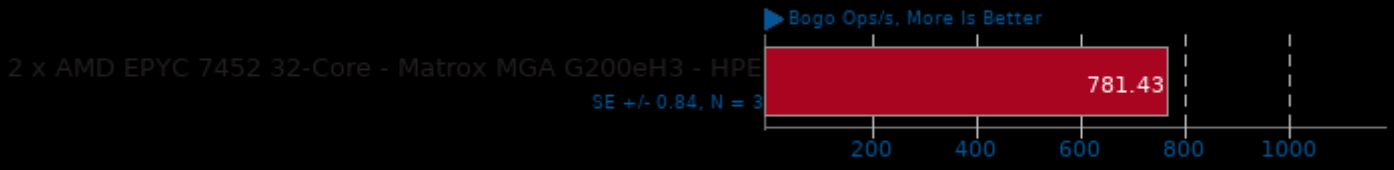
Test: System V Message Passing



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

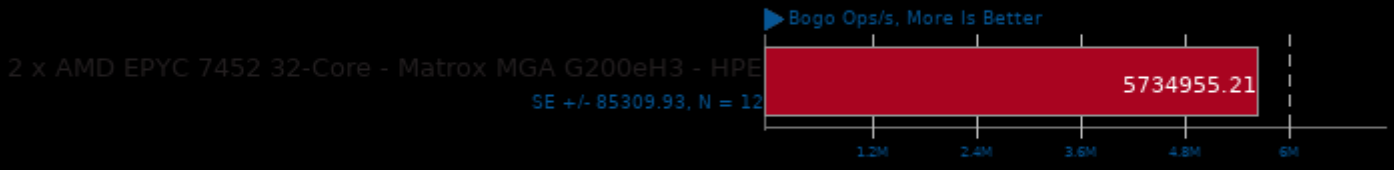
Test: Glibc Qsort Data Sorting



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

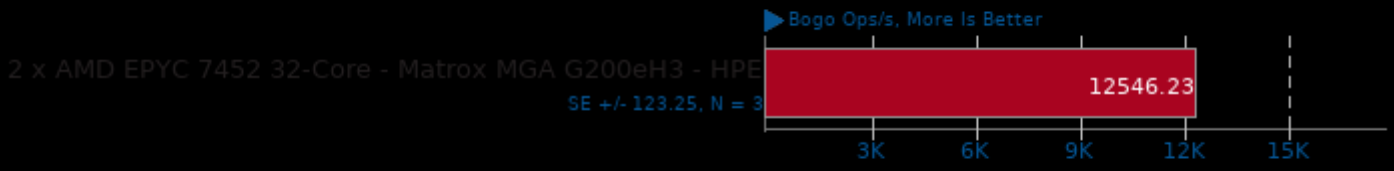
Test: Glibc C String Functions



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

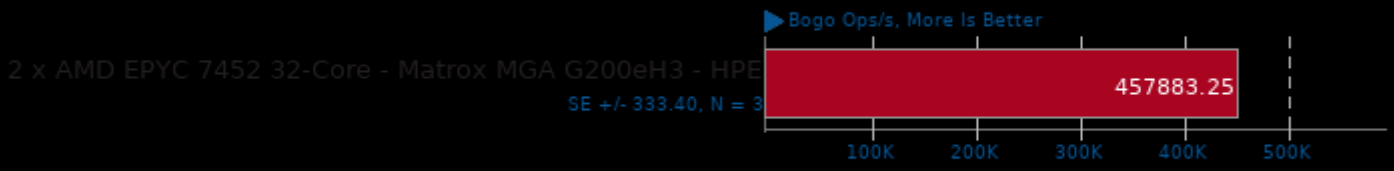
Test: Memory Copying



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: Matrix Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: Semaphores



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: CPU Stress



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

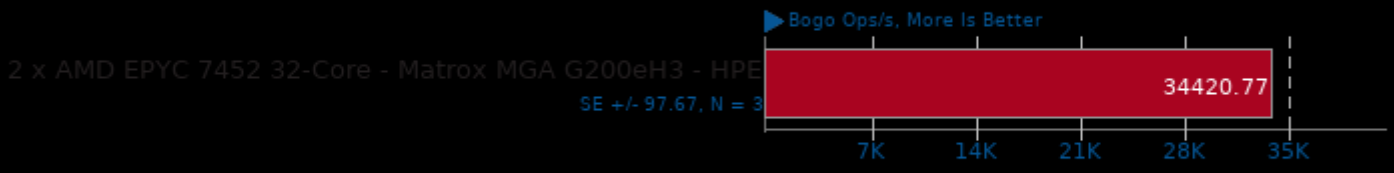
Test: SENDFILE



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: Forking



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

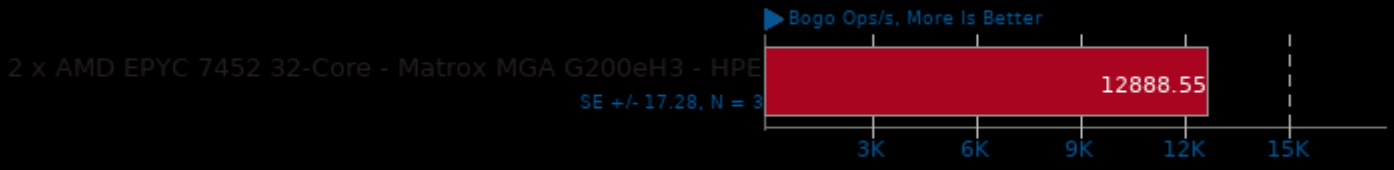
Test: Malloc



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: Crypto



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

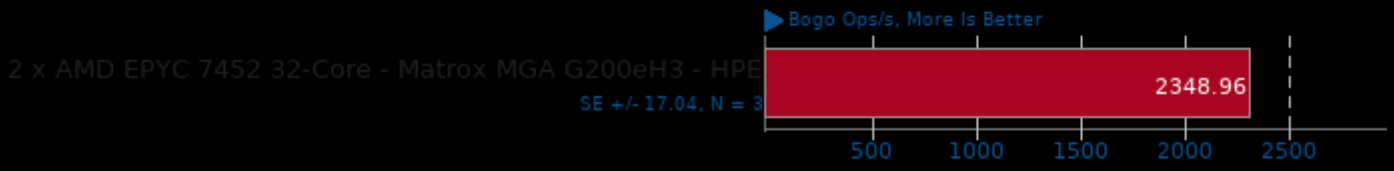
Test: Atomic



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

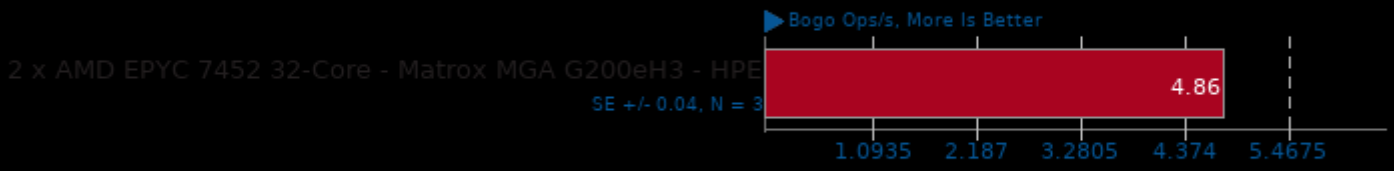
Test: MEMFD



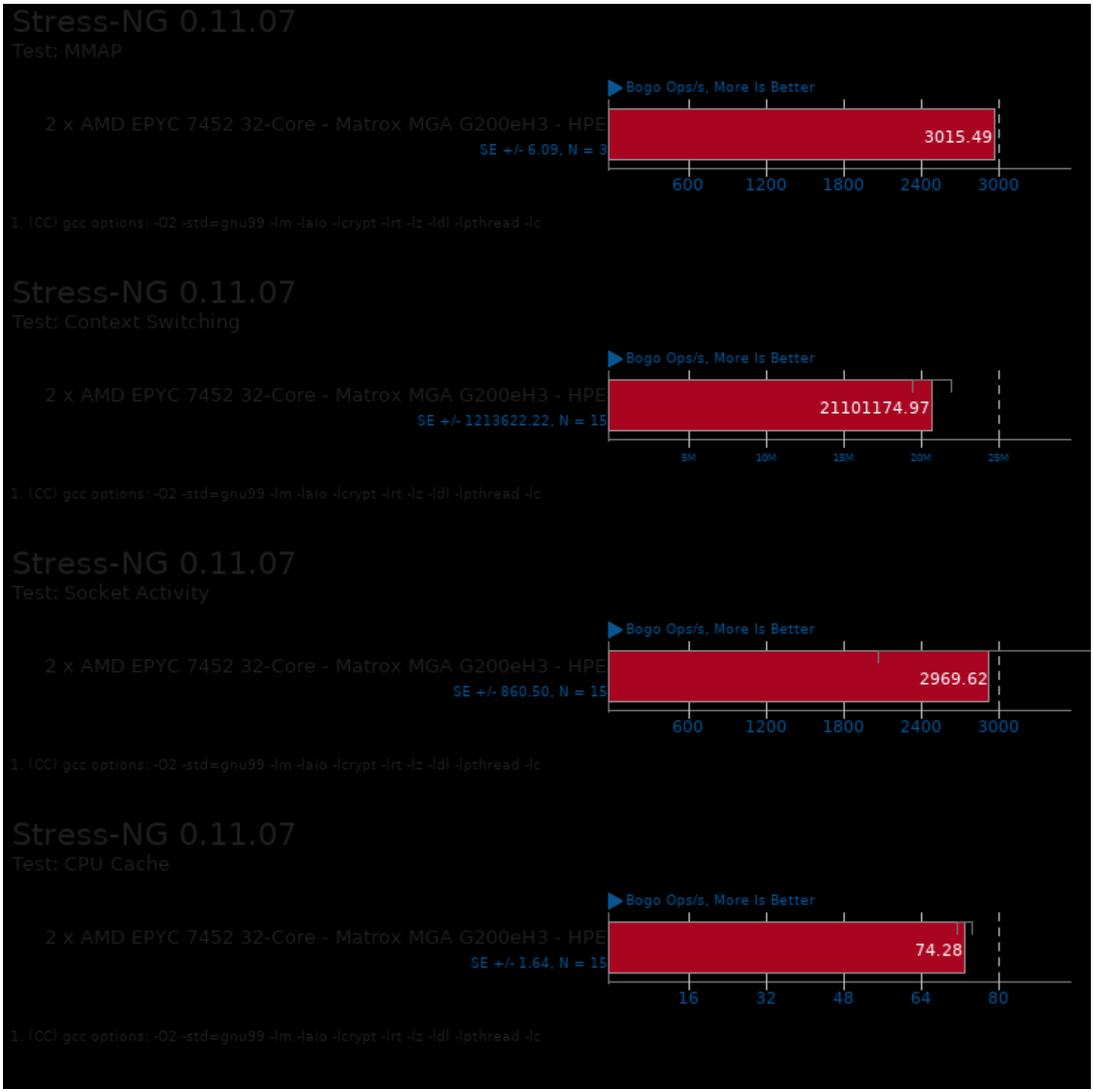
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: NUMA



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc



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