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sysbench20230316

AMD Ryzen 9 5950X 16-Core testing with a ASUS ROG STRIX X570-E GAMING (4408 BIOS) and NVIDIA GeForce GTX 1050 Ti on Clear Linux OS 38560 via the Phoronix Test Suite.

Test Systems:

4408_100M

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Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG STRIX X570-E GAMING (4408 BIOS), Chipset: AMD Starship/Matisse, Memory: 64GB, Disk: 2 x 1000GB Corsair Force MP600 + 1000GB Western Digital WD Green 2.5 100, Graphics: NVIDIA GeForce GTX 1050 Ti, Audio: NVIDIA GP107GL HD Audio, Monitor: L767, Network: Realtek RTL8125 2.5GbE + Intel I211 + Intel Wi-Fi 6 AX200

OS: Clear Linux OS 38560, Kernel: 6.2.6-1290.native (x86_64), Display Server: X Server 1.20.8, Compiler: GCC 12.2.1 20230309 releases/gcc-12.2.0-539-g7435136fe9 + Clang 15.0.7 + LLVM 15.0.7, File-System: f2fs, Screen Resolution: 2056x1286

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Kernel Notes: Transparent Huge Pages: always
Environment Notes: FFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z,now -Wl,-z,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,--enable-new-dtags" CXXFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z,now -Wl,-z,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mrelax-cmpxchg-loop -fvisibility-inlines-hidden -Wl,--enable-new-dtags -std=gnu++17" FCFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z,now -Wl,-z,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,-sort-common -Wl,--enable-new-dtags" CFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z,now -Wl,-z,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mrelax-cmpxchg-loop" THEANO_FLAGS="floatX=float32,openmp=true,gcc.cxxflags="-ftree-vectorize -mavx""
Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-clocale=gnu --enable-default-pie --enable-gnu-indirect-function --enable-gnu-indirect-function --enable-host-shared --enable-languages=c,c++,fortran,go,jit --enable-ld=default --enable-libstdcxx-pch --enable-linux-futex --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=x86-64-v3 --with-gcc-major-version-only --with-glibc-version=2.35 --with-gnu-ld --with-isl --with-pic --with-ppl=yes --with-tune=sapphirerapids --with-zstd
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa20120a
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

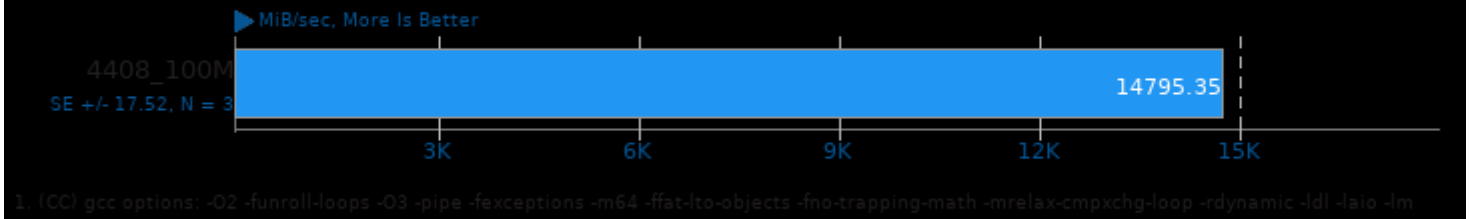
	4408_100M	sysbench20230316
Sysbench - RAM / Memory (MiB/sec)	14795	
Standard Deviation	0.2%	
Sysbench - CPU (Events/sec)	91180	
Standard Deviation	0.1%	
Stress-NG - Hash (Bogo Ops/s)		4073840
Standard Deviation		0%
Stress-NG - MMAP (Bogo Ops/s)		431.94
Standard Deviation		0.2%
Stress-NG - NUMA (Bogo Ops/s)		418.22
Standard Deviation		1.4%
Stress-NG - Poll (Bogo Ops/s)		2409687
Standard Deviation		0.2%
Stress-NG - Zlib (Bogo Ops/s)		1555
Standard Deviation		0.3%
Stress-NG - Futex (Bogo Ops/s)		4556186
Standard Deviation		1.3%
Stress-NG - MEMFD (Bogo Ops/s)		727.01
Standard Deviation		1.8%
Stress-NG - Mutex (Bogo Ops/s)		14038275
Standard Deviation		0.7%
Stress-NG - Atomic (Bogo Ops/s)		118.38
Standard Deviation		0.2%
Stress-NG - Crypto (Bogo Ops/s)		45877
Standard Deviation		0.2%
Stress-NG - Malloc (Bogo Ops/s)		33586945
Standard Deviation		1.7%
Stress-NG - Forking (Bogo Ops/s)		56474
Standard Deviation		1.1%
Stress-NG - Pthread (Bogo Ops/s)		170035
Standard Deviation		0.2%
Stress-NG - IO_uring (Bogo Ops/s)		8515
Standard Deviation		18.9%
Stress-NG - SENDFILE (Bogo Ops/s)		657285
Standard Deviation		3.7%

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Stress-NG - CPU Cache (Bogo Ops/s)	112.63
Standard Deviation	8.7%
Stress-NG - CPU Stress (Bogo Ops/s)	47262
Standard Deviation	0.1%
Stress-NG - Semaphores (Bogo Ops/s)	3300534
Standard Deviation	2.2%
Stress-NG - Matrix Math (Bogo Ops/s)	86107
Standard Deviation	0.3%
Stress-NG - Vector Math (Bogo Ops/s)	118037
Standard Deviation	0%
Stress-NG - Function Call (Bogo Ops/s)	127102
Standard Deviation	2.8%
Stress-NG - Memory Copying (Bogo Ops/s)	8964
Standard Deviation	0.4%
Stress-NG - Socket Activity (Bogo Ops/s)	3691
Standard Deviation	117.3%
Stress-NG - Context Switching (Bogo Ops/s)	11725627
Standard Deviation	1.7%
Stress-NG - G.C.S.F (Bogo Ops/s)	3788731
Standard Deviation	3.4%
Stress-NG - G.Q.D.S (Bogo Ops/s)	224.58
Standard Deviation	0.3%
Stress-NG - S.V.M.P (Bogo Ops/s)	24864284
Standard Deviation	0.2%

Sysbench 1.0.20

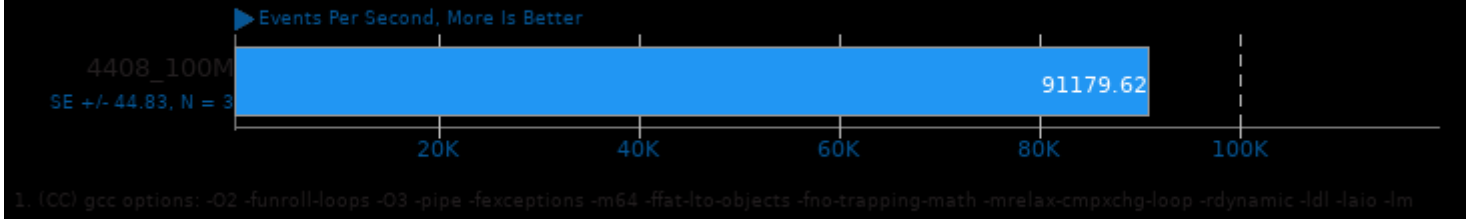
Test: RAM / Memory



1. (CC) gcc options: -O2 -funroll-loops -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -rdynamic -ldl -laio -lm

Sysbench 1.0.20

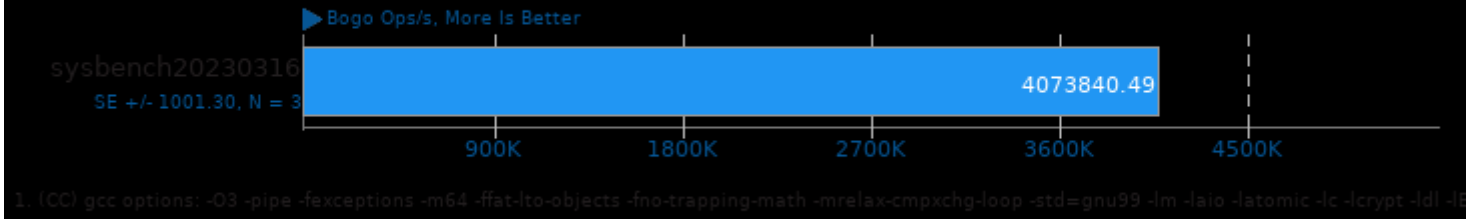
Test: CPU



1. (CC) gcc options: -O2 -funroll-loops -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -rdynamic -ldl -laio -lm

Stress-NG 0.15.04

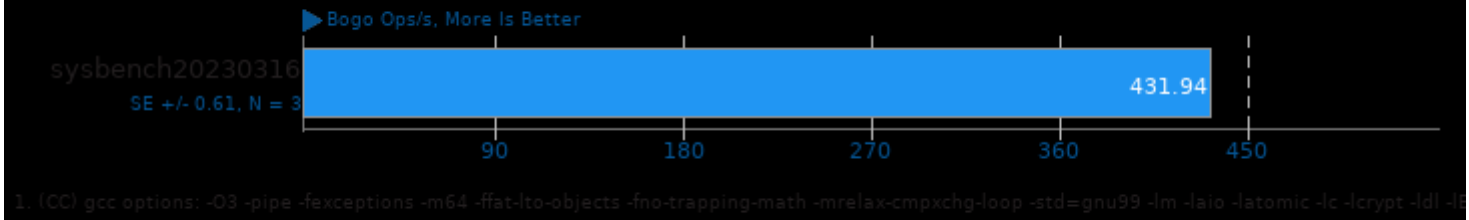
Test: Hash



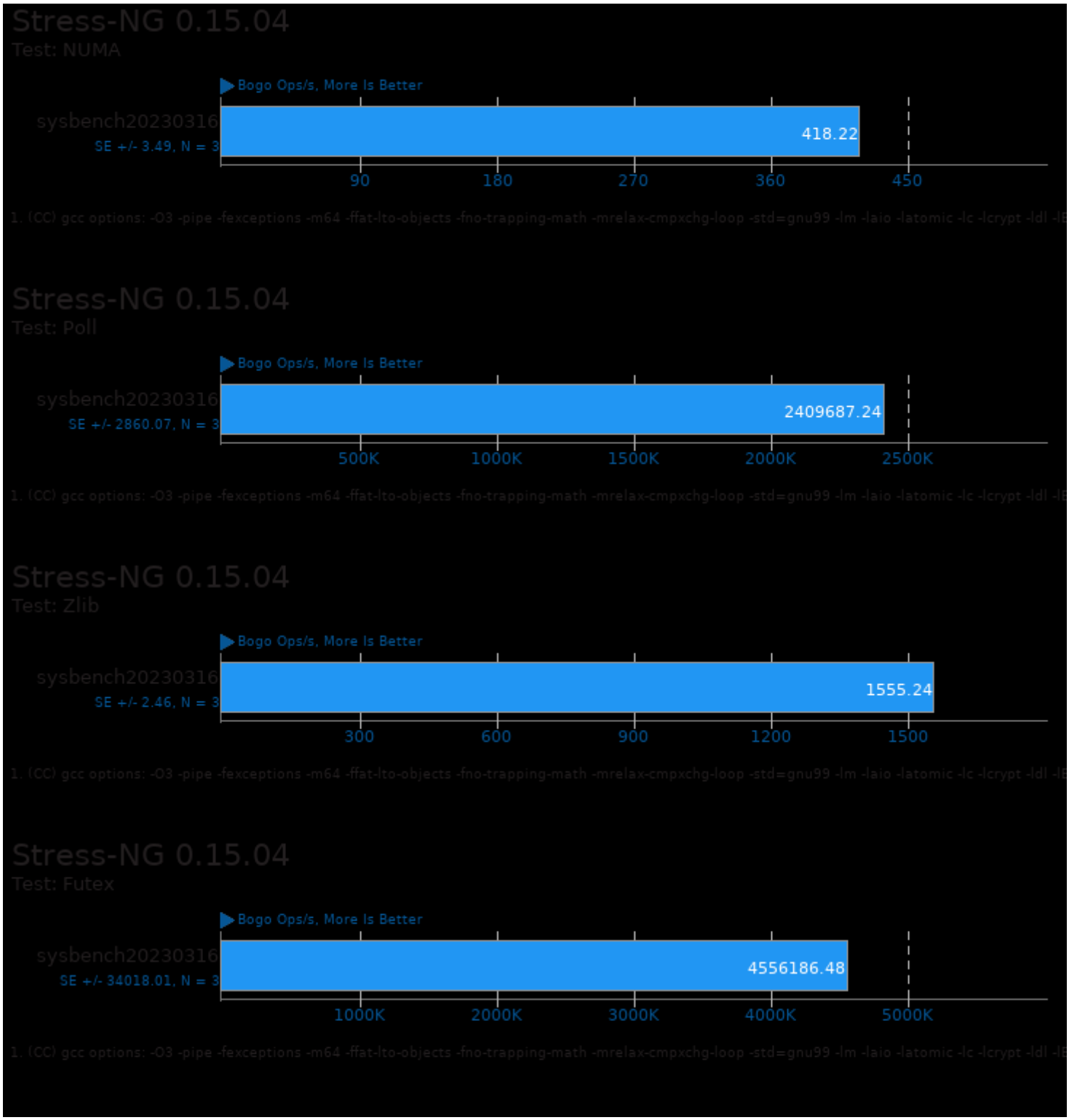
1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -std=gnu99 -lm -laio -latomic -lc -lcrypt -ldl -l

Stress-NG 0.15.04

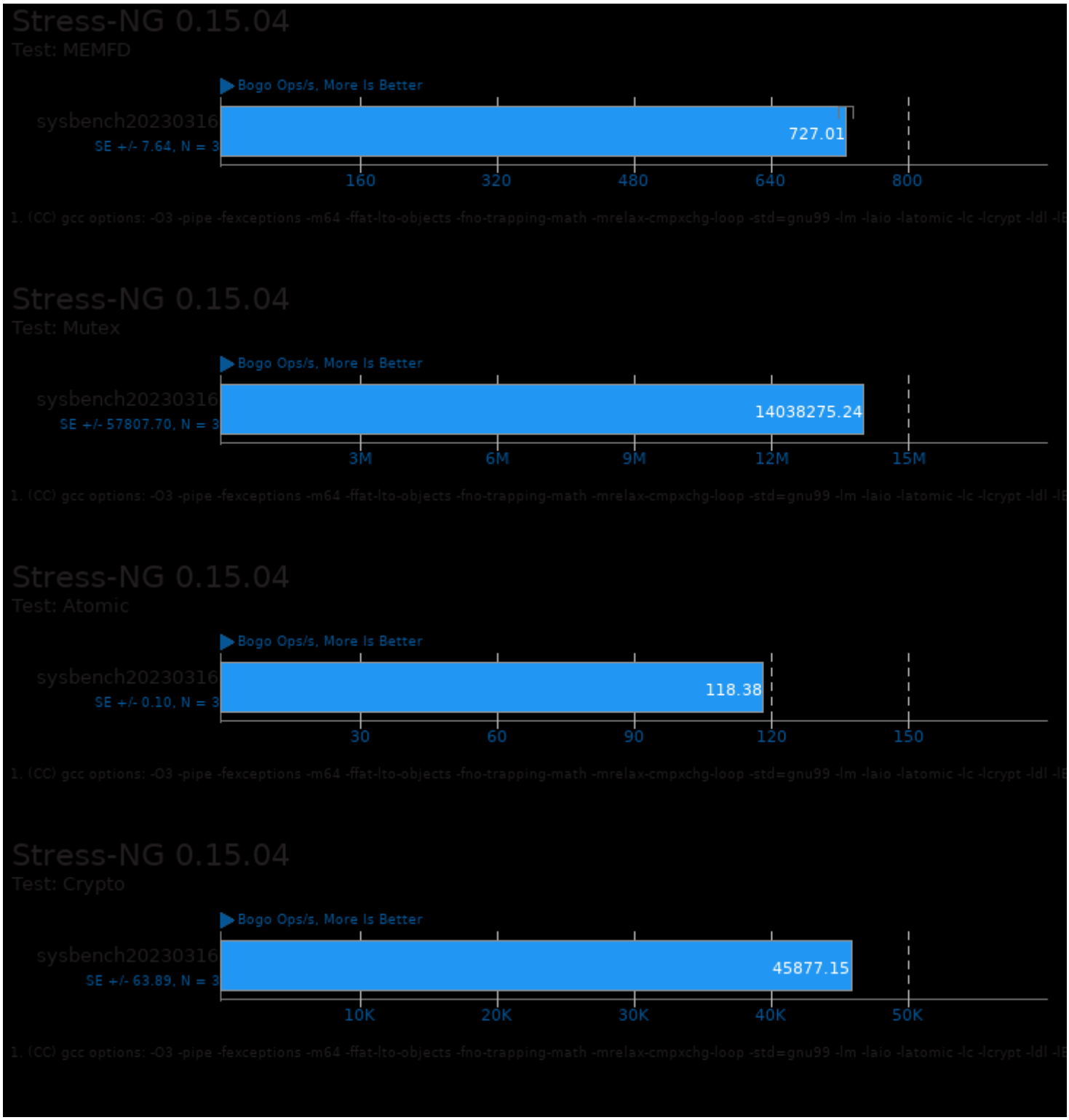
Test: MMAP

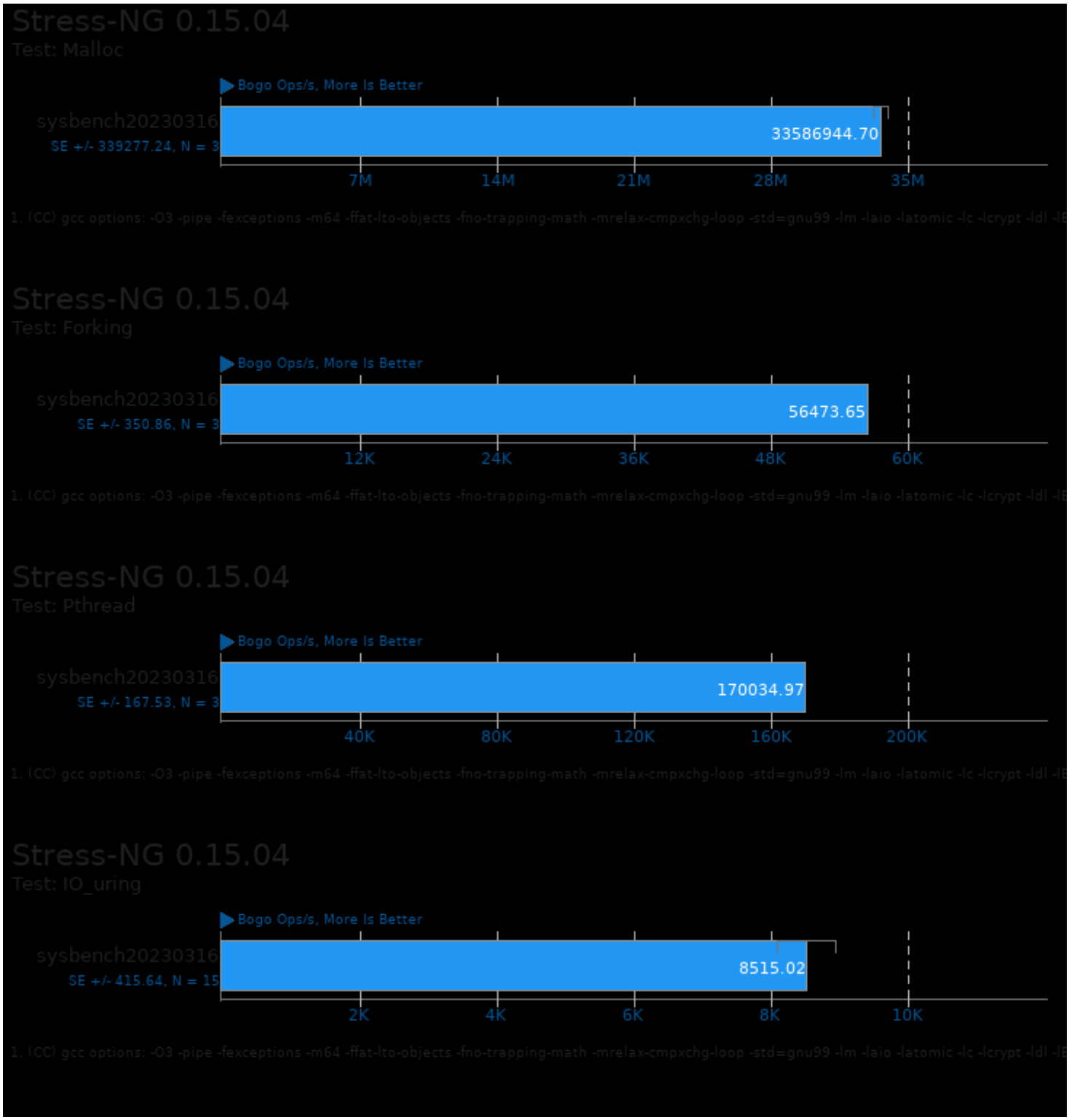


1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -std=gnu99 -lm -laio -latomic -lc -lcrypt -ldl -l

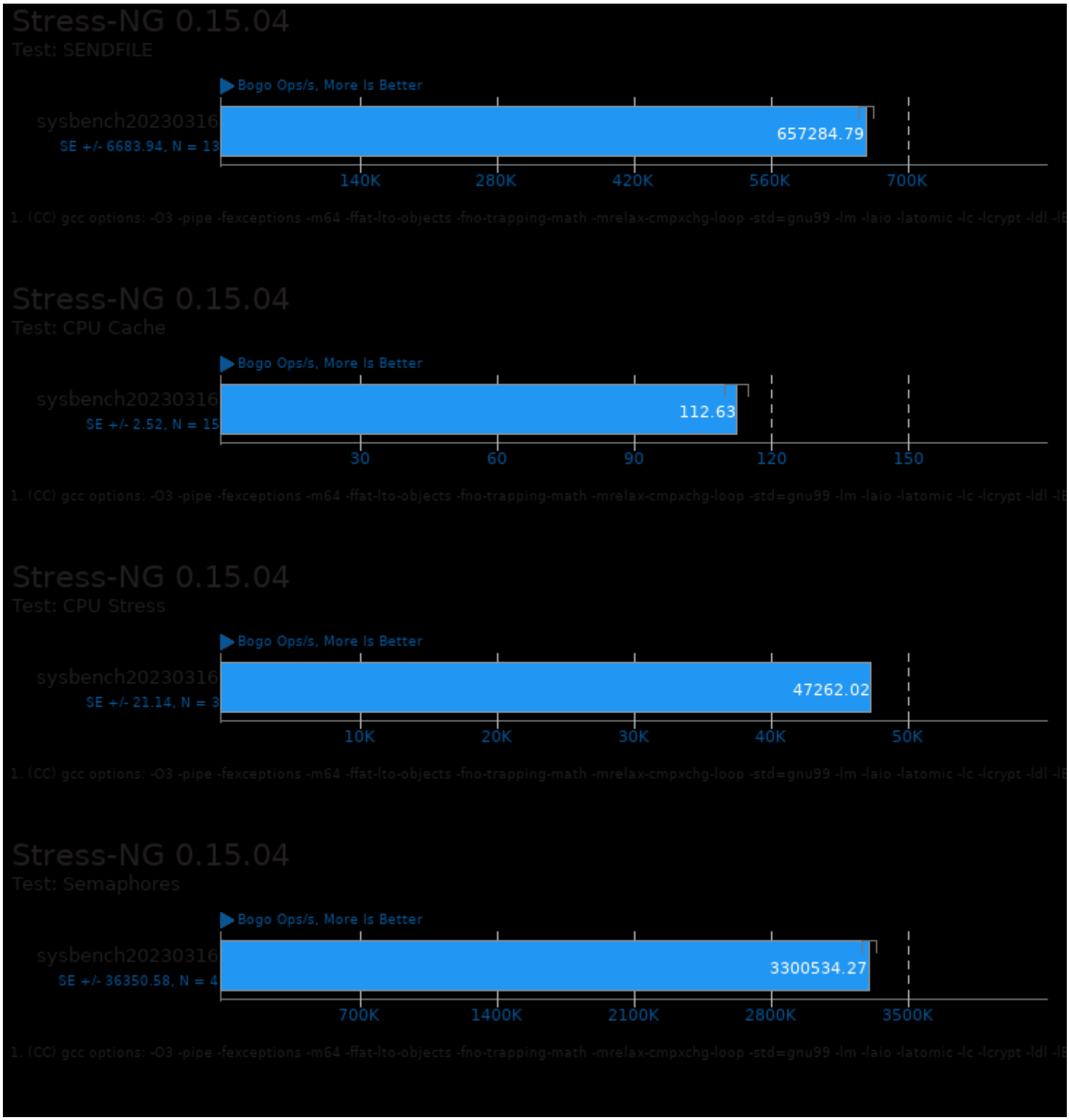

Stress-NG 0.15.04
Test: NUMA
Bogo Ops/s, More Is Better
sysbench20230316
SE +/- 3.49, N = 3
418.22
90
180
270
360
450
1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -std=gnu99 -lm -laio -latomic -lc -lcrypt -ldl
Stress-NG 0.15.04
Test: Poll
Bogo Ops/s, More Is Better
sysbench20230316
SE +/- 2860.07, N = 3
2409687.24
500K
1000K
1500K
2000K
2500K
1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -std=gnu99 -lm -laio -latomic -lc -lcrypt -ldl
Stress-NG 0.15.04
Test: Zlib
Bogo Ops/s, More Is Better
sysbench20230316
SE +/- 2.46, N = 3
1555.24
300
600
900
1200
1500
1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -std=gnu99 -lm -laio -latomic -lc -lcrypt -ldl
Stress-NG 0.15.04
Test: Futex
Bogo Ops/s, More Is Better
sysbench20230316
SE +/- 34018.01, N = 3
4556186.48
1000K
2000K
3000K
4000K
5000K
1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -std=gnu99 -lm -laio -latomic -lc -lcrypt -ldl

sysbench20230316

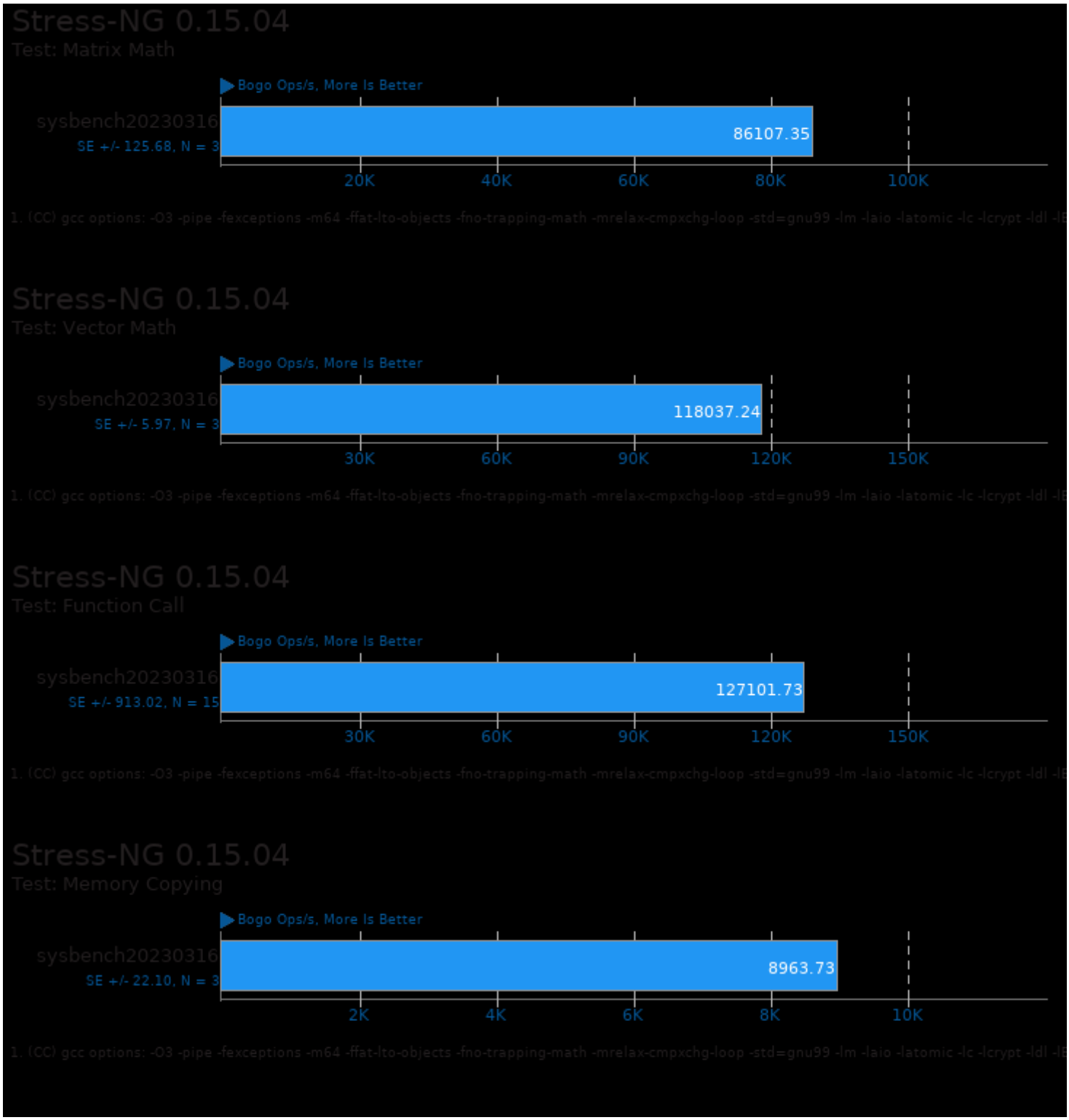



Stress-NG 0.15.04
Test: Malloc
Bogo Ops/s, More Is Better
sysbench20230316
SE +/- 339277.24, N = 3
33586944.70
7M
14M
21M
28M
35M
1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -std=gnu99 -lm -laio -latomic -lc -lcrypt -ldl
Stress-NG 0.15.04
Test: Forking
Bogo Ops/s, More Is Better
sysbench20230316
SE +/- 350.86, N = 3
56473.65
12K
24K
36K
48K
60K
1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -std=gnu99 -lm -laio -latomic -lc -lcrypt -ldl
Stress-NG 0.15.04
Test: Pthread
Bogo Ops/s, More Is Better
sysbench20230316
SE +/- 167.53, N = 3
170034.97
40K
80K
120K
160K
200K
1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -std=gnu99 -lm -laio -latomic -lc -lcrypt -ldl
Stress-NG 0.15.04
Test: IO_uring
Bogo Ops/s, More Is Better
sysbench20230316
SE +/- 415.64, N = 15
8515.02
2K
4K
6K
8K
10K
1. (CC) gcc options: -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mrelax-cmpxchg-loop -std=gnu99 -lm -laio -latomic -lc -lcrypt -ldl

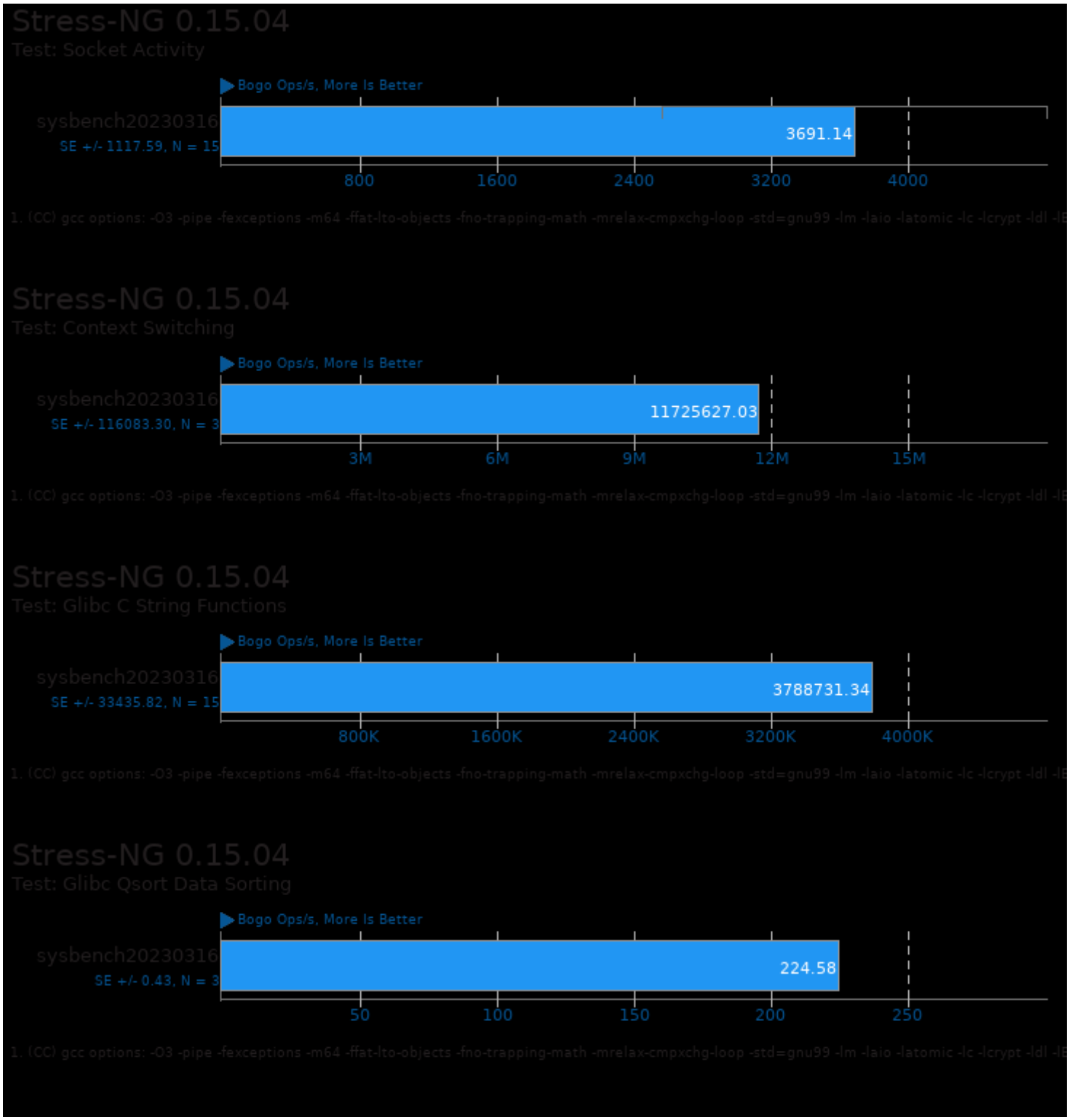
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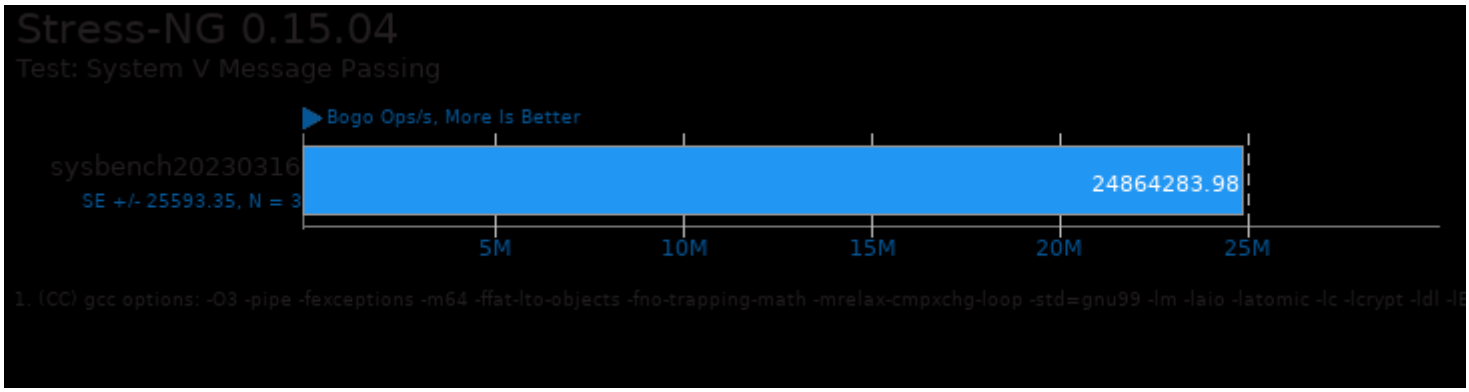
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