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multitest-5800X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01

5800X3D (-30x8 PBO2 UV), DDR4 3800 (CL 16), Ubuntu 22 VM running in Hyper-V on Win11

Test Systems:

multitest-5800X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01

Processor: AMD Ryzen 7 5800X3D 8-Core (8 Cores / 16 Threads), Motherboard: Microsoft Virtual Machine (Hyper-V UEFI v4.1 BIOS), Memory: 16GB, Disk: 13GB Virtual Disk + 107GB Virtual Disk, Graphics: hyperv_drmdrmfb

OS: Ubuntu 22.04, Kernel: 5.15.0-1031-azure (x86_64), Display Server: X Server 1.21.1.3, Vulkan: 1.2.204, Compiler: GCC 11.3.0, File-System: ext4, Screen Resolution: 1024x768, System Layer: microsoft

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v

Processor Notes: CPU Microcode: 0xffffffff
Python Notes: Python 3.10.6
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: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: conditional RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	multitest-5800X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01
CacheBench - Read (MB/s)	3458
Standard Deviation	0%
CacheBench - Write (MB/s)	33265
Standard Deviation	0.3%
CacheBench - R.M.W (MB/s)	66102
Standard Deviation	0.1%
Numpy Benchmark (Score)	616.65
Standard Deviation	0.1%
DeepSpeech - CPU (sec)	38.26331
Standard Deviation	0%
Gcrypt Library (sec)	179.285
Standard Deviation	0.3%
Stress-NG - MMAP (Bogo Ops/s)	238.92
Standard Deviation	0.1%
Stress-NG - NUMA (Bogo Ops/s)	262.76
Standard Deviation	0.7%
Stress-NG - Futex (Bogo Ops/s)	1602182
Standard Deviation	1.6%
Stress-NG - MEMFD (Bogo Ops/s)	1058
Standard Deviation	0.2%
Stress-NG - Mutex (Bogo Ops/s)	5892926
Standard Deviation	2.1%
Stress-NG - Atomic (Bogo Ops/s)	211975
Standard Deviation	1.2%
Stress-NG - Crypto (Bogo Ops/s)	16766
Standard Deviation	0%
Stress-NG - Malloc (Bogo Ops/s)	10680831
Standard Deviation	0.7%
Stress-NG - Forking (Bogo Ops/s)	50684
Standard Deviation	0.2%
Stress-NG - IO_uring (Bogo Ops/s)	2579
Standard Deviation	0.7%
Stress-NG - SENDFILE (Bogo Ops/s)	218891
Standard Deviation	0.2%
Stress-NG - CPU Cache (Bogo Ops/s)	28.85
Standard Deviation	9.5%
Stress-NG - CPU Stress (Bogo Ops/s)	19255
Standard Deviation	0%
Stress-NG - Semaphores (Bogo Ops/s)	828667
Standard Deviation	0.2%
Stress-NG - Matrix Math (Bogo Ops/s)	41704

Standard Deviation 0.1%

Stress-NG - Vector Math (Bogo Ops/s) 71011

Standard Deviation 0%

Stress-NG - Memory Copying (Bogo Ops/s) 2780

Standard Deviation 0.2%

Stress-NG - Socket Activity (Bogo Ops/s) 15561

Standard Deviation 5.5%

Stress-NG - Context Switching (Bogo Ops/s) 4114932

Standard Deviation 0.8%

Stress-NG - G.C.S.F (Bogo Ops/s) 1549808

Standard Deviation 0.6%

Stress-NG - G.Q.D.S (Bogo Ops/s) 132.71

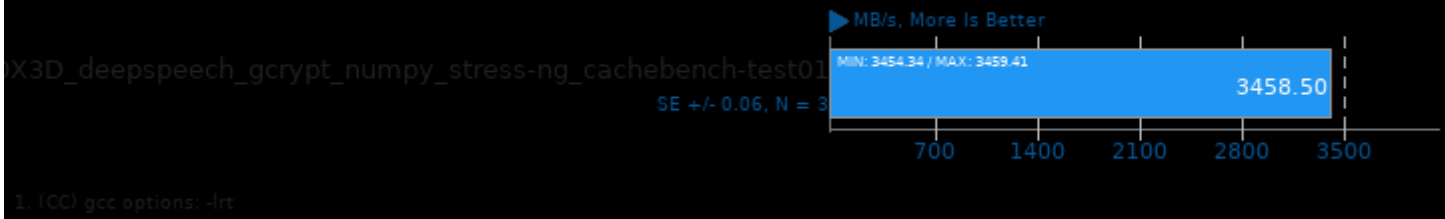
Standard Deviation 0.7%

Stress-NG - S.V.M.P (Bogo Ops/s) 9968870

Standard Deviation 0.1%

CacheBench

Test: Read



1. (CC) gcc options: -lrt

CacheBench

Test: Write



1. (CC) gcc options: -lrt

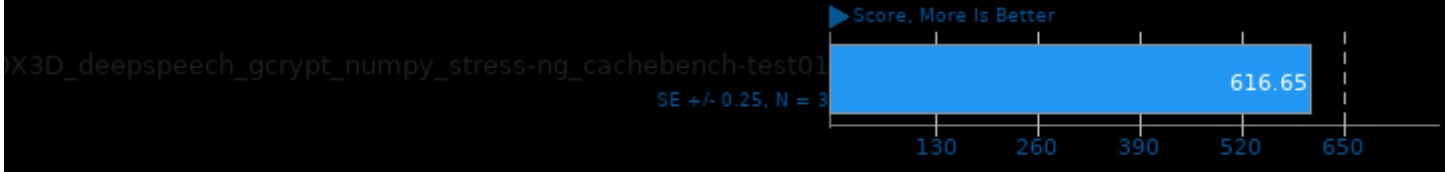
CacheBench

Test: Read / Modify / Write



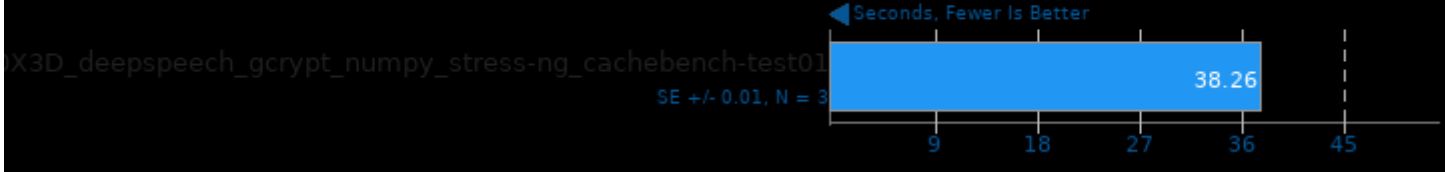
1. (CC) gcc options: -lrt

Numpy Benchmark

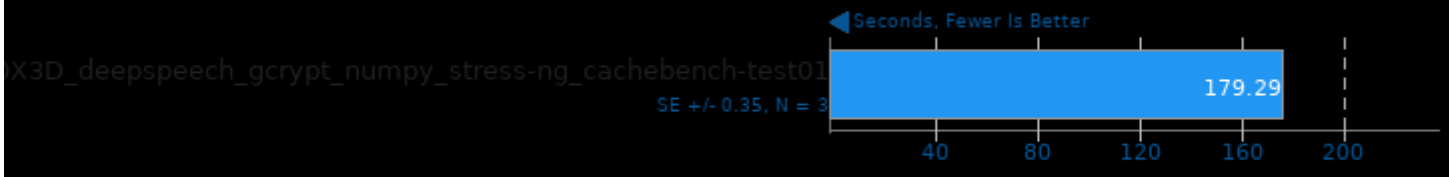


DeepSpeech 0.6

Acceleration: CPU



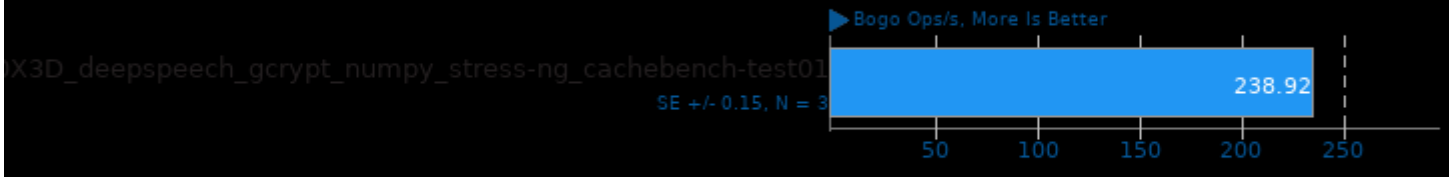
Gcrypt Library 1.9



1. (CC) gcc options: -O2 -fvisibility=hidden

Stress-NG 0.14.06

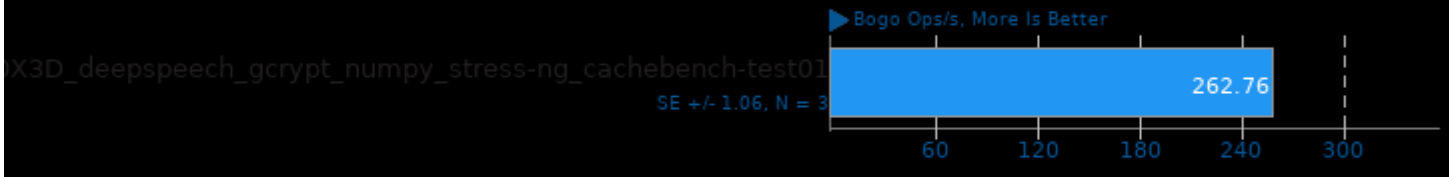
Test: MMAP



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread

Stress-NG 0.14.06

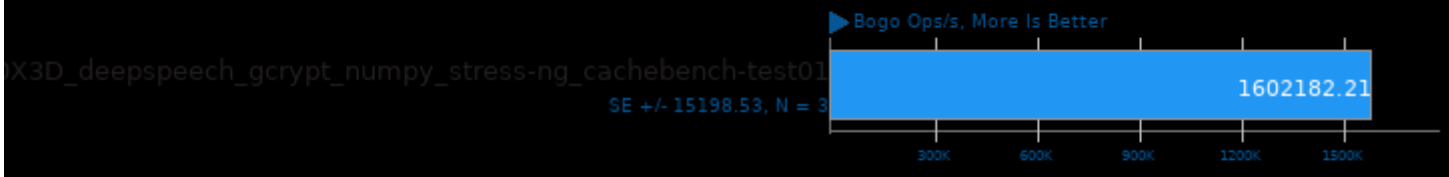
Test: NUMA



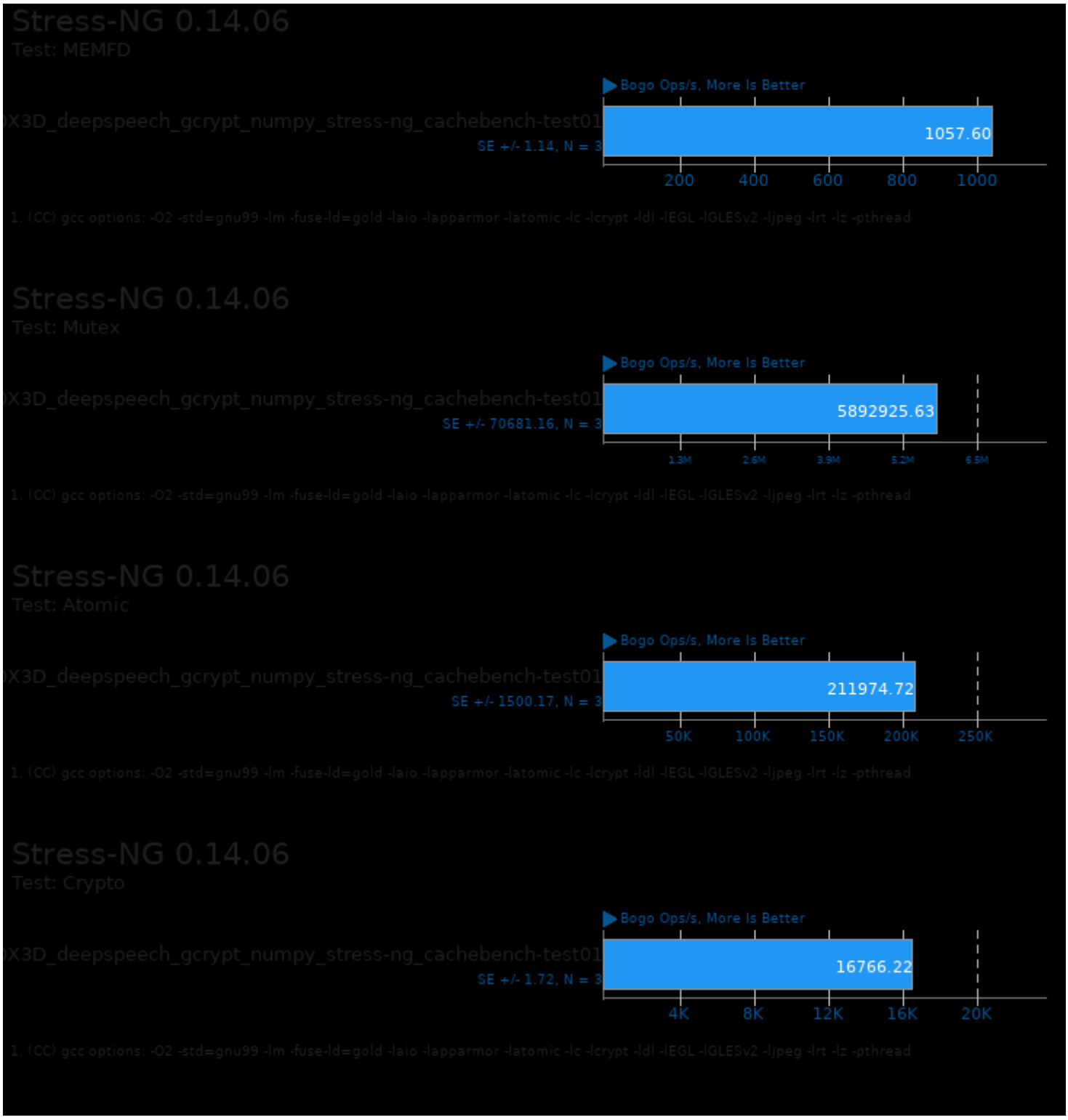
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread

Stress-NG 0.14.06

Test: Futex

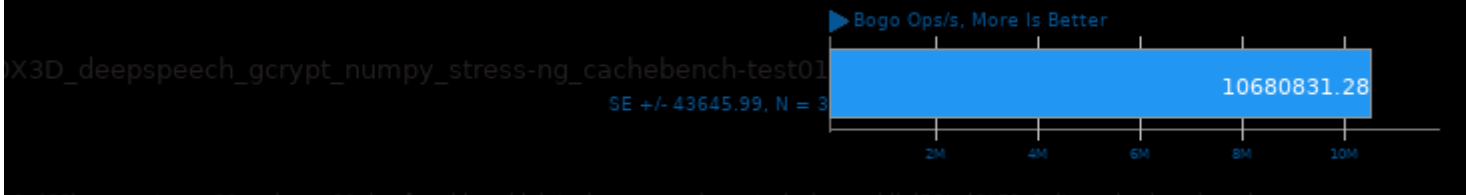


1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread


Stress-NG 0.14.06
Test: MEMFD
Bogo Ops/s, More Is Better
X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01
SE +/- 1.14, N = 3
1057.60
200
400
600
800
1000
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread
Stress-NG 0.14.06
Test: Mutex
Bogo Ops/s, More Is Better
X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01
SE +/- 70681.16, N = 3
5892925.63
1.3M
2.6M
3.9M
5.2M
6.5M
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread
Stress-NG 0.14.06
Test: Atomic
Bogo Ops/s, More Is Better
X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01
SE +/- 1500.17, N = 3
211974.72
50K
100K
150K
200K
250K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread
Stress-NG 0.14.06
Test: Crypto
Bogo Ops/s, More Is Better
X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01
SE +/- 1.72, N = 3
16766.22
4K
8K
12K
16K
20K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread

Stress-NG 0.14.06

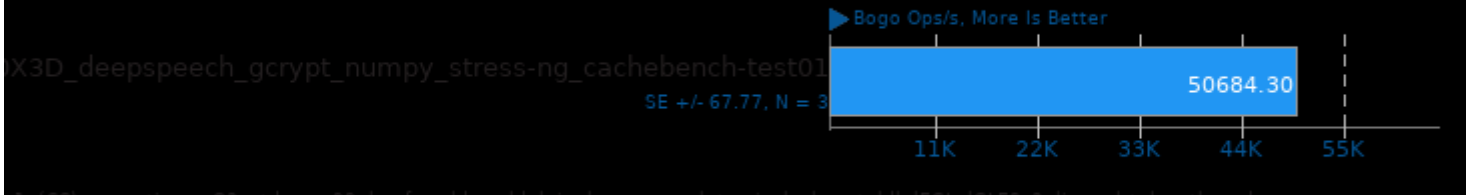
Test: Malloc



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread

Stress-NG 0.14.06

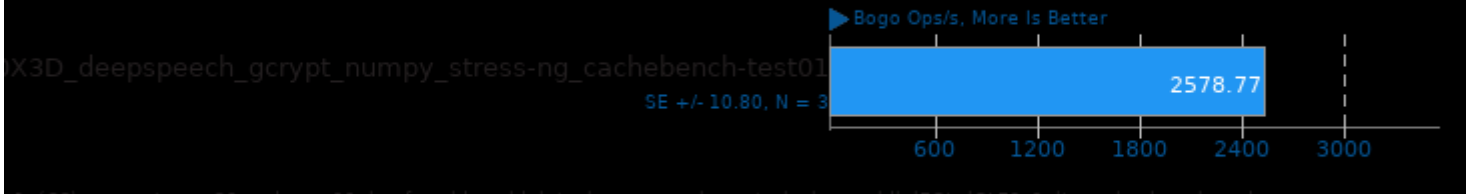
Test: Forking



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread

Stress-NG 0.14.06

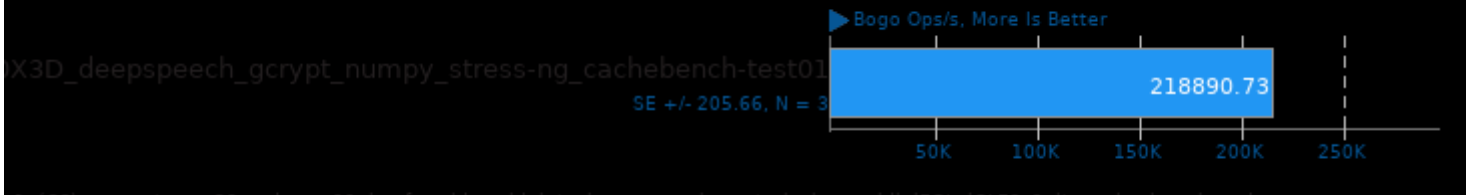
Test: IO_uring



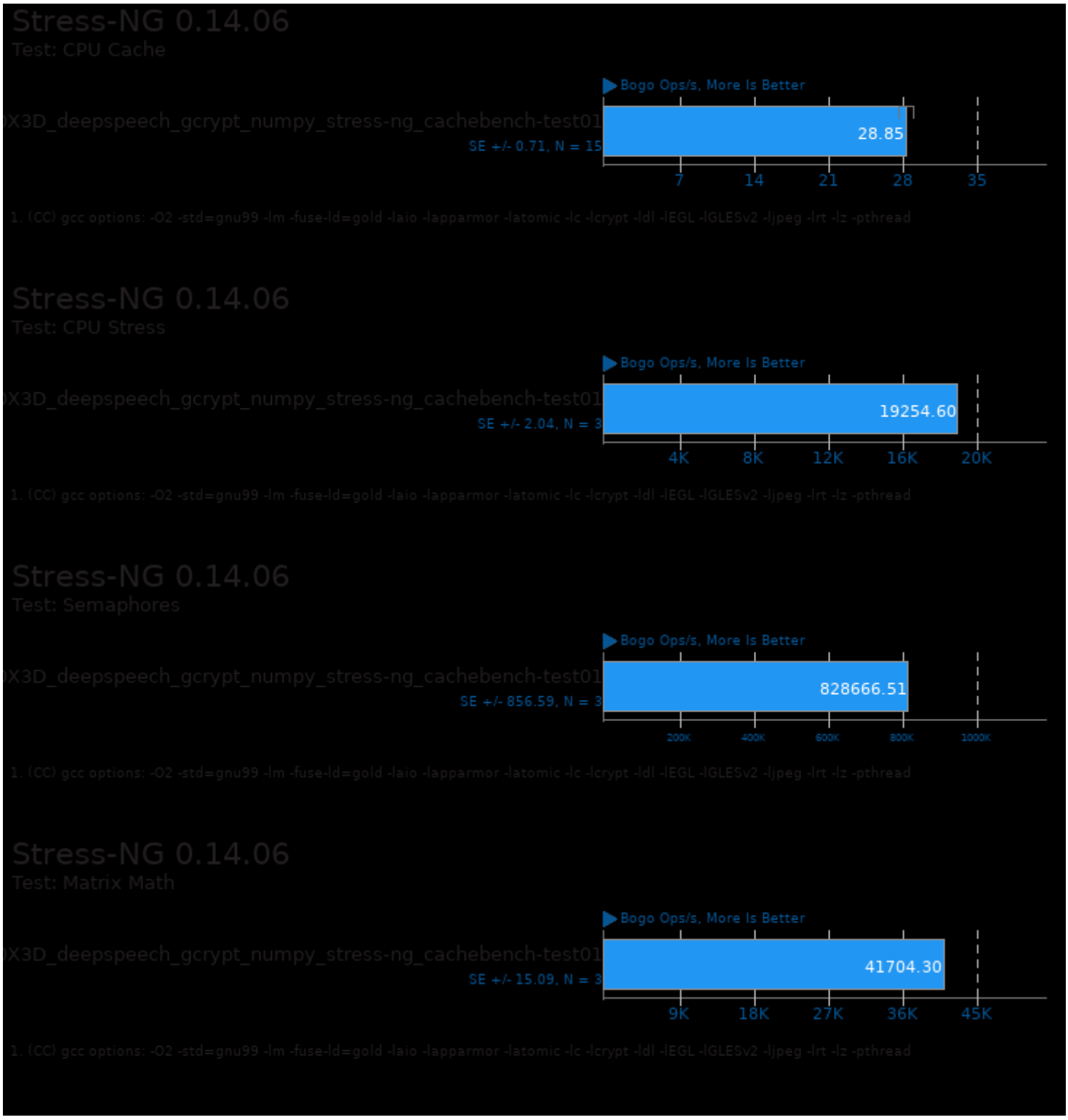
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread

Stress-NG 0.14.06

Test: SENDFILE

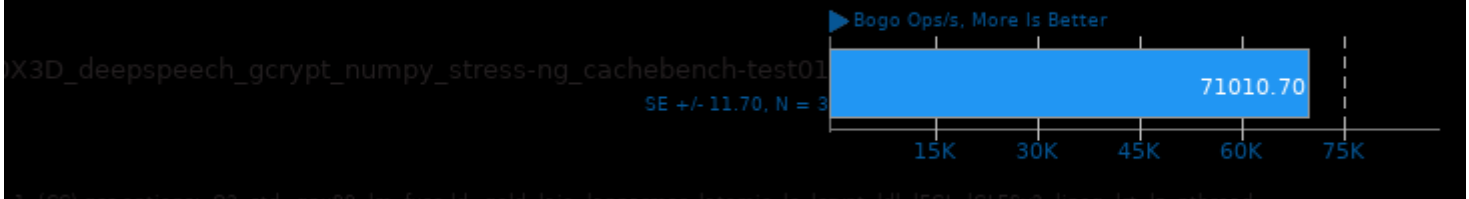


1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread


Stress-NG 0.14.06
Test: CPU Cache
Bogo Ops/s, More Is Better
X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01
SE +/- 0.71, N = 15
28.85
7
14
21
28
35
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread
Stress-NG 0.14.06
Test: CPU Stress
Bogo Ops/s, More Is Better
X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01
SE +/- 2.04, N = 3
19254.60
4K
8K
12K
16K
20K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread
Stress-NG 0.14.06
Test: Semaphores
Bogo Ops/s, More Is Better
X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01
SE +/- 856.59, N = 3
828666.51
200K
400K
600K
800K
1000K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread
Stress-NG 0.14.06
Test: Matrix Math
Bogo Ops/s, More Is Better
X3D_deepspeech_gcrypt_numpy_stress-ng_cachebench-test01
SE +/- 15.09, N = 3
41704.30
9K
18K
27K
36K
45K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread

Stress-NG 0.14.06

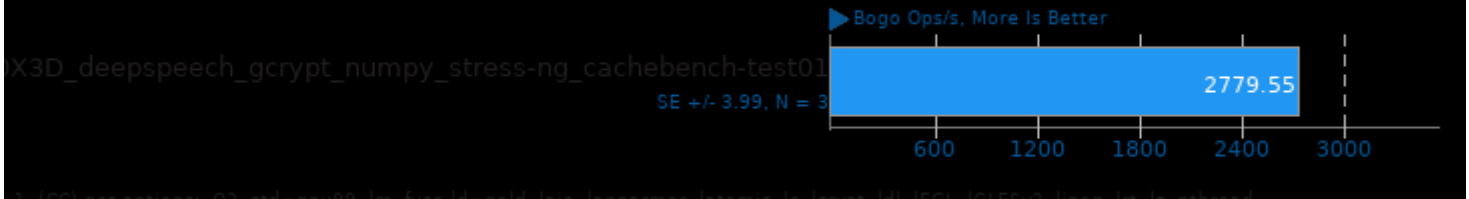
Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread

Stress-NG 0.14.06

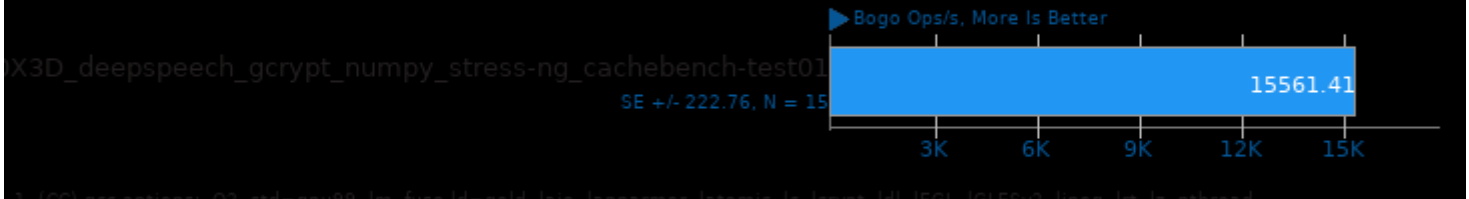
Test: Memory Copying



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread

Stress-NG 0.14.06

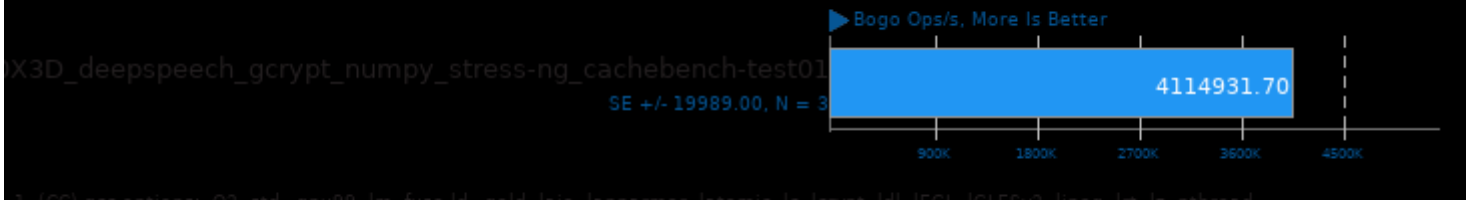
Test: Socket Activity



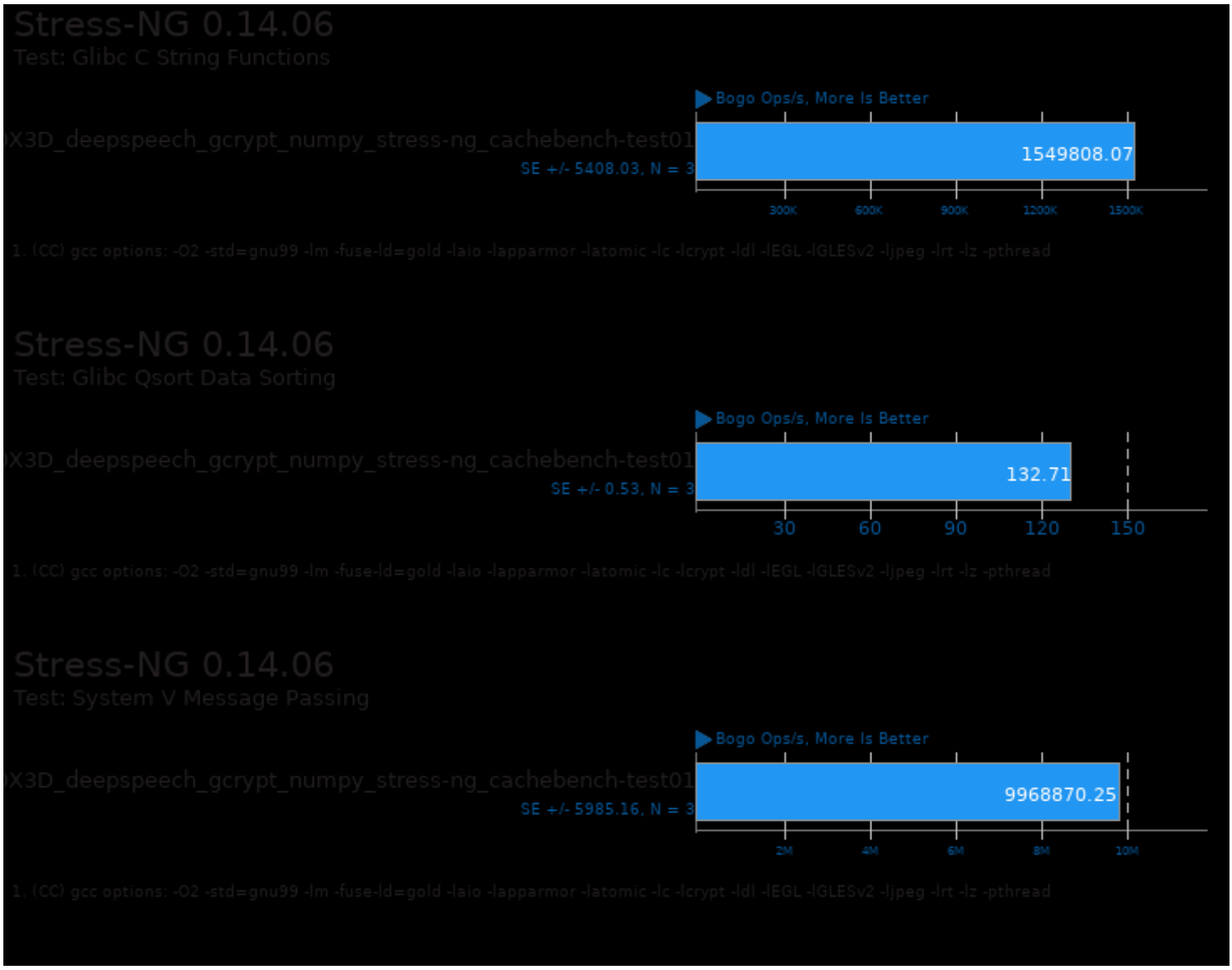
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread

Stress-NG 0.14.06

Test: Context Switching



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lz -pthread



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