www.phoronix-test-suite.com

hv-r430-01

KVM testing on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

E5-2460v3 2.60GHz host had the most wins, coming in first place for 73% of the tests.

Based on the geometric mean of all complete results, the fastest (E5-2460v3 2.60GHz host) was 2.052x the speed of the slowest (E5-2648Lv4). E5-2648Lv4 1.8GHz host was 0.916x the speed of E5-2460v3 2.60GHz host, E5-2460v3 2.60GHz was 0.772x the speed of E5-2648Lv4 1.8GHz host, E5-2648Lv4 was 0.689x the speed of E5-2460v3 2.60GHz.

The results with the greatest spread from best to worst included:

Stress-NG (Test: Malloc) at 5.215x
Stress-NG (Test: Mutex) at 2.975x
Stress-NG (Test: Vector Math) at 2.924x
Stress-NG (Test: CPU Stress) at 2.714x
Stress-NG (Test: SENDFILE) at 2.641x
Stress-NG (Test: Glibc C String Functions) at 2.496x
Stress-NG (Test: Semaphores) at 2.452x
Stress-NG (Test: Glibc Qsort Data Sorting) at 2.412x
Stress-NG (Test: Matrix Math) at 2.355x

Stress-NG (Test: Context Switching) at 2.341x.

Test Systems:

E5-2460v3 2.60GHz

Processor: Common KVM (32 Cores), Motherboard: QEMU Standard PC (i440FX + PIIX 1996) (rel-1.16.0-0-gd239552ce722-prebuilt.qemu.org BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 16GB, Disk: 17GB QEMU HDD, Graphics: bochs-drmdrmfb, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Ubuntu 22.04, Kernel: 5.15.0-56-generic (x86_64), Vulkan: 1.2.204, Compiler: GCC 11.3.0, File-System: ext4, Screen Resolution: 1280x800, System Layer: KVM

Kernel Notes: Transparent Huge Pages: madvise
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: 0x1
Security Notes: itlb_multihit: KVM: Mitigation of VMX unsupported + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + mmio_stale_data: Unknown: No mitigations + retbleed: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines STIBP: disabled RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

E5-2460v3 2.60GHz host

Processor: Intel Xeon E5-2640 v3 (32 Cores), Motherboard: QEMU Standard PC (i440FX + PIIX 1996) (rel-1.16.0-0-gd239552ce722-prebuilt.qemu.org BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 16GB, Disk: 17GB QEMU HDD, Graphics: bochs-drmdrmfb, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Ubuntu 22.04, Kernel: 5.15.0-56-generic (x86_64), Vulkan: 1.2.204, Compiler: GCC 11.3.0, File-System: ext4, Screen Resolution: 1280x800, System Layer: KVM

Kernel Notes: Transparent Huge Pages: madvise
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: 0x46
Security Notes: itlb_multihit: Not affected + l1tf: Mitigation of PTE Inversion; VMX: flush not necessary SMT disabled + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Mitigation of PTI + mmio_stale_data: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + 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: disabled RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

E5-2648Lv4

Processor: Intel Xeon E5-2648L v4 (16 Cores), Motherboard: QEMU Standard PC (i440FX + PIIX 1996) (rel-1.16.0-0-gd239552ce722-prebuilt.qemu.org BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 16GB, Disk: 17GB QEMU HDD, Graphics: bochs-drmdrmfb, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Ubuntu 22.04, Kernel: 5.15.0-56-generic (x86_64), Vulkan: 1.2.204, Compiler: GCC 11.3.0, File-System: ext4, Screen Resolution: 1280x800, System Layer: KVM

Kernel Notes: Transparent Huge Pages: madvise
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: 0xb00003e
Security Notes: itlb_multihit: Not affected + l1tf: Mitigation of PTE Inversion; VMX: flush not necessary SMT disabled + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Mitigation of PTI + mmio_stale_data: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + 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: disabled RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Mitigation of Clear buffers; SMT Host state unknown

E5-2648Lv4 1.8GHz host

Processor: Intel Xeon E5-2648L v4 (32 Cores), Motherboard: QEMU Standard PC (i440FX + PIIX 1996) (rel-1.16.0-0-gd239552ce722-prebuilt.qemu.org BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 16GB, Disk: 17GB QEMU HDD, Graphics: bochs-drmdrmfb, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Ubuntu 22.04, Kernel: 5.15.0-56-generic (x86_64), Vulkan: 1.2.204, Compiler: GCC 11.3.0, File-System: ext4, Screen Resolution: 1280x800, System Layer: KVM

Kernel Notes: Transparent Huge Pages: madvise
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: 0xb00003e
Security Notes: itlb_multihit: Not affected + l1tf: Mitigation of PTE Inversion; VMX: flush not necessary SMT disabled + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Mitigation of PTI + mmio_stale_data: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + 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: disabled RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Mitigation of Clear buffers; SMT Host state unknown

	E5-2460v3 2.60GHz	E5-2460v3 2.60GHz host	E5-2648Lv4	E5-2648Lv4 1.8GHz host
Stress-NG - MMAP (Bogo Ops/s)	**58.00**	52.16	**24.57**	57.76
Normalized	100%	89.93%	42.36%	99.59%
Standard Deviation	48.2%	63.6%	35.3%	51.9%
Stress-NG - NUMA (Bogo Ops/s)	**71.74**	**159.47**	80.41	120.80
Normalized	44.99%	100%	50.42%	75.75%
Standard Deviation	2.6%	1.4%	1.1%	0.3%
Stress-NG - Futex (Bogo Ops/s)		**1027159**	549464	**530053**
Normalized		100%	53.49%	51.6%
Standard Deviation		2.3%	2.7%	2.2%
Stress-NG - MEMFD (Bogo Ops/s)		169.70	**104.05**	**196.57**
Normalized		86.33%	52.93%	100%
Standard Deviation		48.8%	46.1%	42.8%
Stress-NG - Mutex (Bogo Ops/s)		**3478040**	**1169039**	2349124
Normalized		100%	33.61%	67.54%

Standard Deviation	0.6%	1%	1%
Stress-NG - Atomic (Bogo Ops/s)	**133182**	**58091**	67367
Normalized	100%	43.62%	50.58%
Standard Deviation	1.4%	0.6%	2.3%
Stress-NG - Crypto (Bogo Ops/s)	**11392**	**5379**	10862
Normalized	100%	47.21%	95.34%
Standard Deviation	6.5%	0.2%	0.7%
Stress-NG - Malloc (Bogo Ops/s)	**7579511**	**1453426**	5518844
Normalized	100%	19.18%	72.81%
Standard Deviation	0.3%	0.3%	0.3%
Stress-NG - Forking (Bogo Ops/s)	**28481**	**17703**	25808
Normalized	100%	62.16%	90.62%
Standard Deviation	1.4%	0.7%	0.9%
Stress-NG - IO_uring (Bogo Ops/s)	**671.59**	706.07	**896.41**
Normalized	74.92%	78.77%	100%
Standard Deviation	21.5%	22.9%	5.8%
Stress-NG - SENDFILE (Bogo Ops/s)	**127490**	**48274**	96151
Normalized	100%	37.86%	75.42%
Standard Deviation	0.6%	0.7%	0.3%
Stress-NG - CPU Cache (Bogo Ops/s)	**101.87**	**35.20**	48.50
Normalized	100%	34.55%	47.61%
Standard Deviation	6.6%	12.5%	11.1%
Stress-NG - CPU Stress (Bogo Ops/s)	**18178**	**6697**	13546
Normalized	100%	36.84%	74.52%
Standard Deviation	1.7%	0.3%	0.1%
Stress-NG - Semaphores (Bogo	**1653103**	**674116**	1346675
Normalized	100%	40.78%	81.46%
Standard Deviation	0.1%	0.8%	0.5%
Stress-NG - Matrix Math (Bogo Ops/s)	**45816**	**19458**	39457
Normalized	100%	42.47%	86.12%
Standard Deviation	0.1%	0.3%	0.1%
Stress-NG - Vector Math (Bogo Ops/s)	**33989**	**11623**	23403
Normalized	100%	34.2%	68.85%
Standard Deviation	4.5%	0.6%	0.6%
Stress-NG - x86_64 RdRand (Bogo Ops/s)	**485990**	**242961**	485486
Normalized	100%	49.99%	99.9%
Standard Deviation	0%	0%	0%
Stress-NG - Memory Copying (Bogo Ops/s)	**1173**	1294	**2105**
Normalized	55.71%	61.46%	100%
Standard Deviation	2.5%	0.1%	0.7%
Stress-NG - Socket Activity (Bogo	4637	**3463**	**5822**
Normalized	79.66%	59.49%	100%
Standard Deviation	0.3%	0.5%	1.1%
Stress-NG - Context Switching (Bogo Ops/s)	**925113**	1082404	**2165906**
Normalized	42.71%	49.97%	100%
Standard Deviation	2%	0.6%	1.2%
Stress-NG - G.C.S.F (Bogo Ops/s)	**1196671**	**479515**	987819
Normalized	100%	40.07%	82.55%
Standard Deviation	0.3%	2.1%	0.3%
Stress-NG - G.Q.D.S (Bogo Ops/s)	**134.52**	**55.78**	113.08
Normalized	100%	41.47%	84.06%
Standard Deviation	1.2%	0.5%	0.3%

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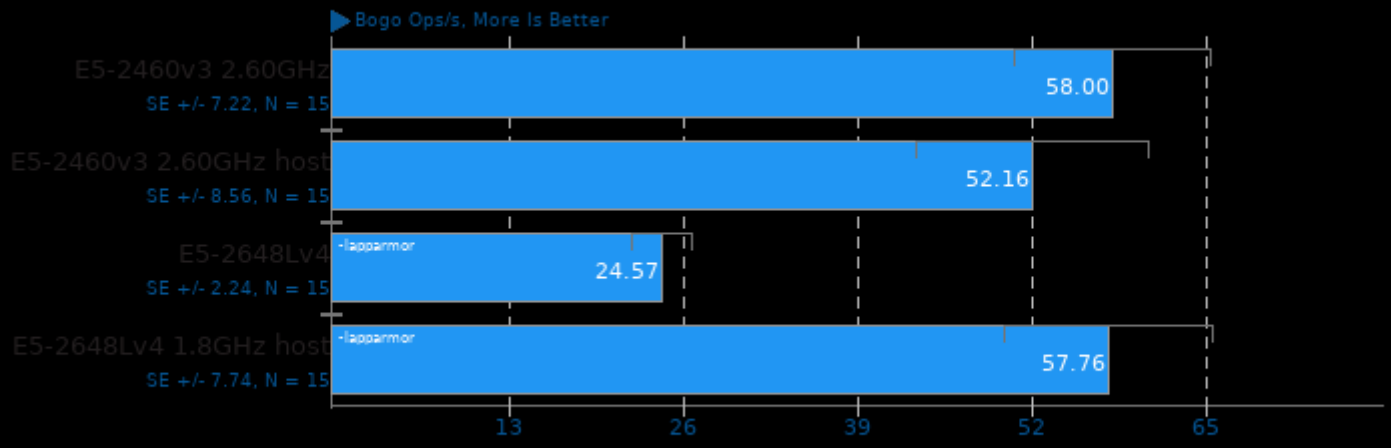
Stress-NG - S.V.M.P (Bogo Ops/s)	2533290	2297529	1566127
Normalized	100%	90.69%	61.82%
Standard Deviation	0.4%	0.3%	0.6%

Stress-NG 0.14.06

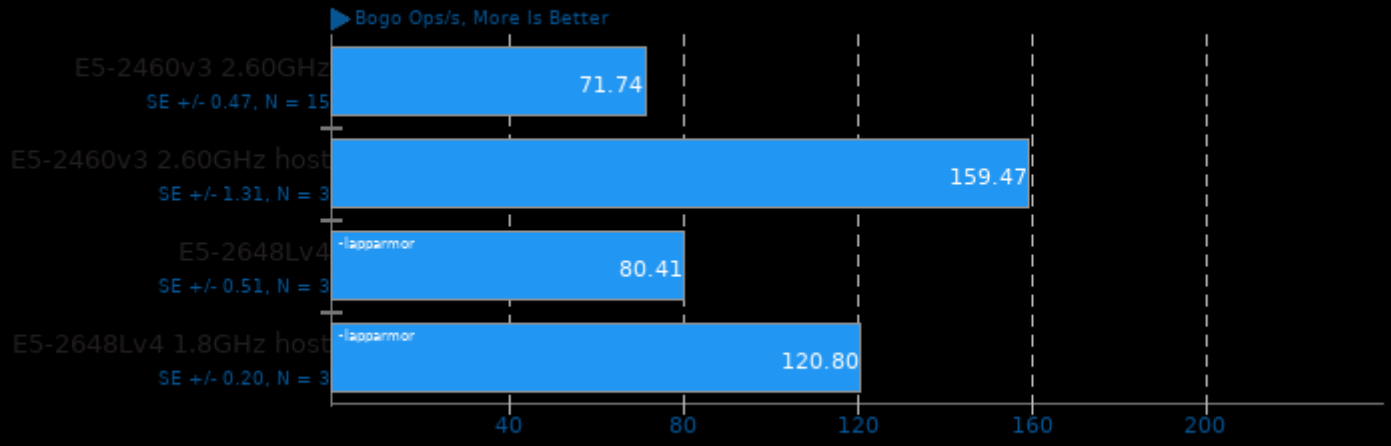
Test: MMAP



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread

Stress-NG 0.14.06

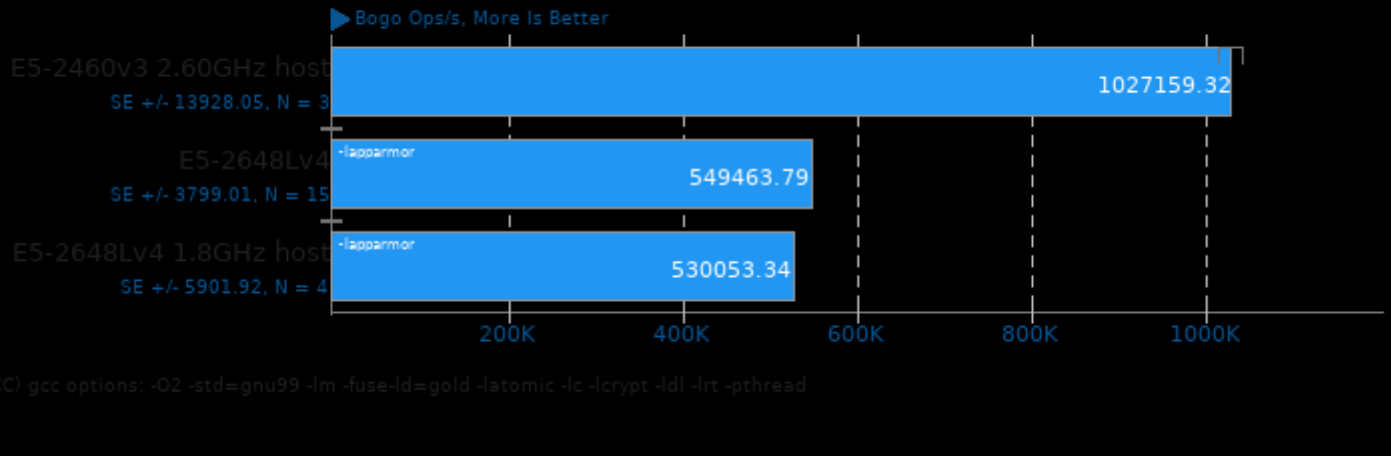
Test: NUMA



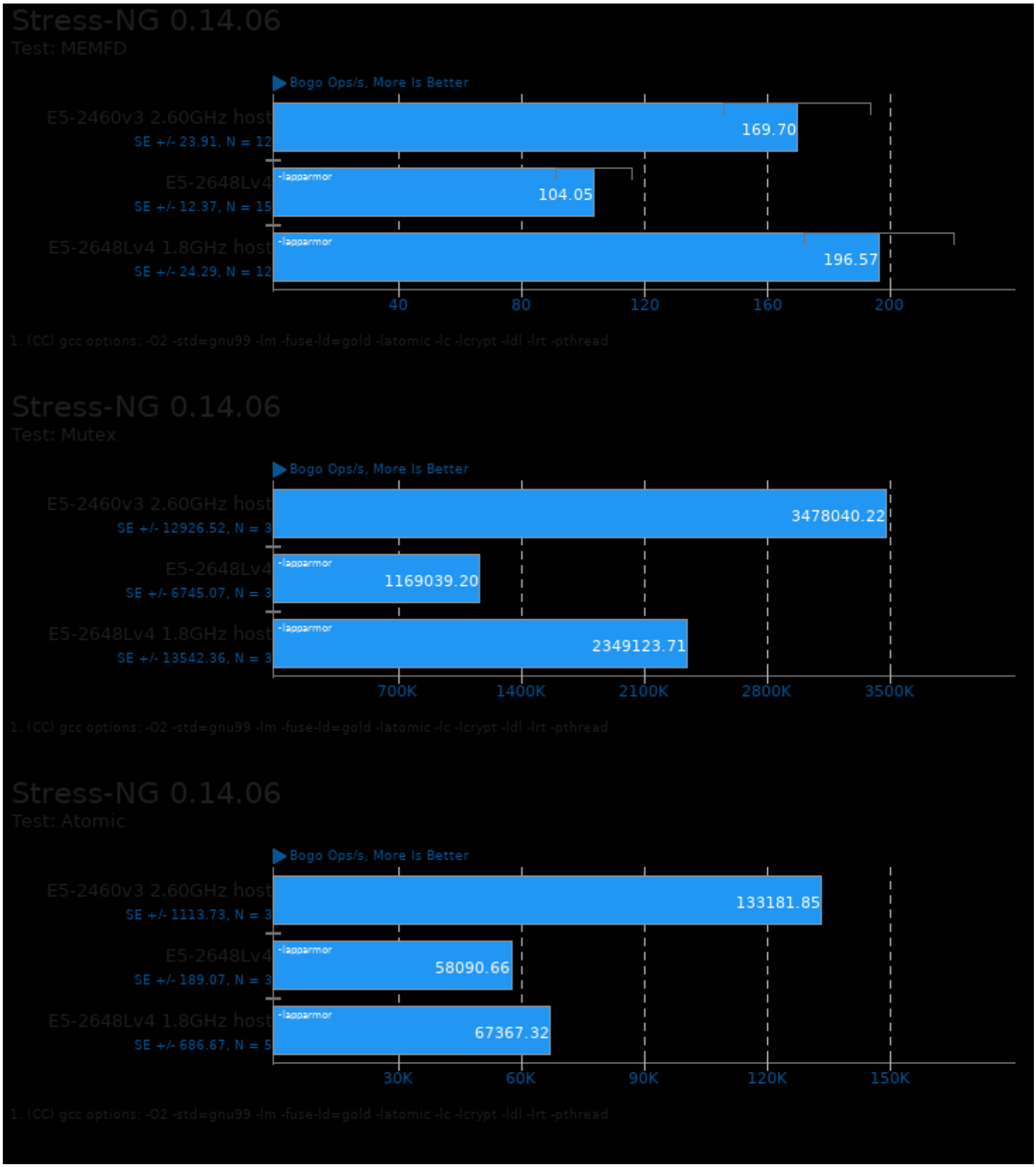
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread

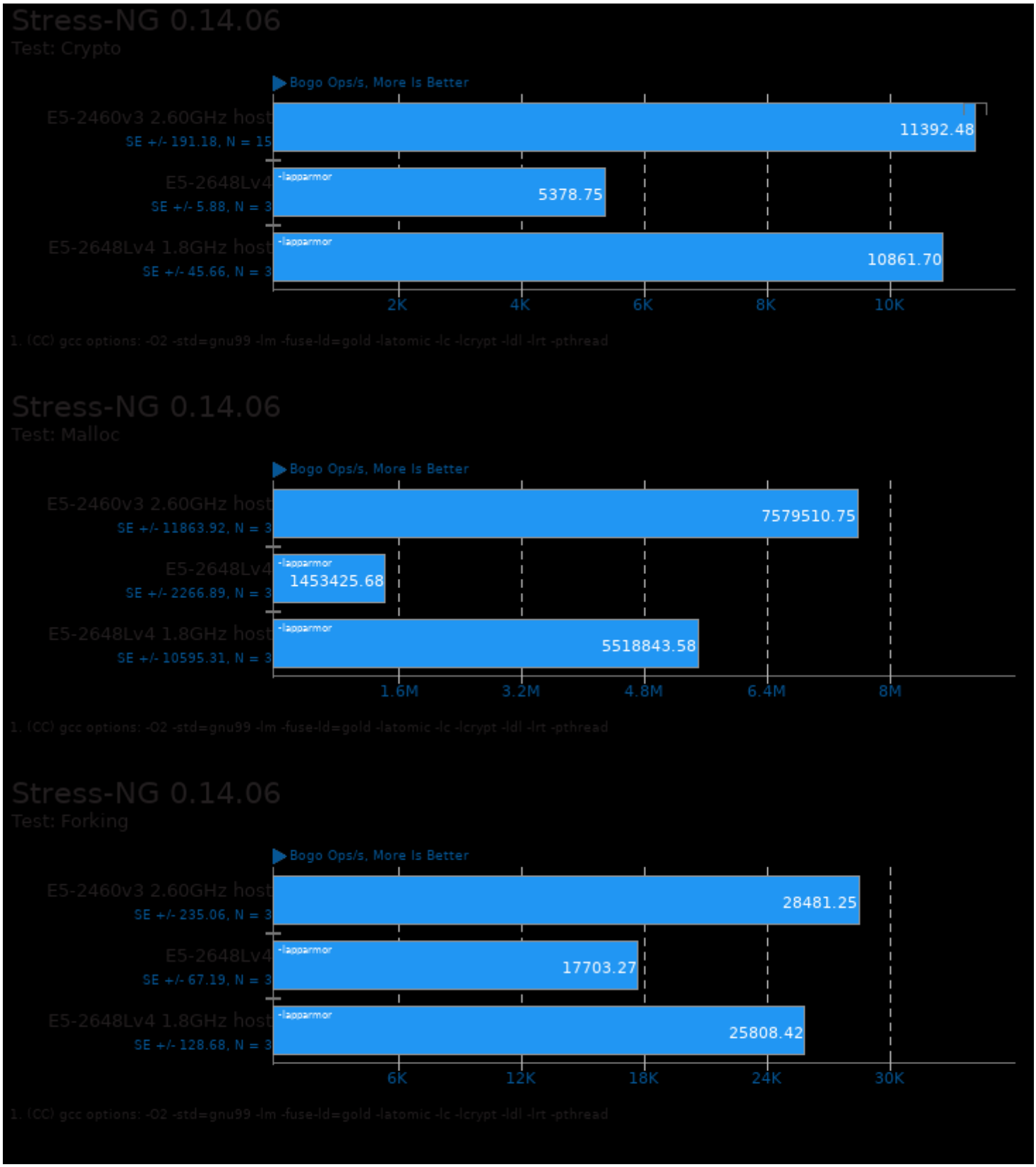
Stress-NG 0.14.06

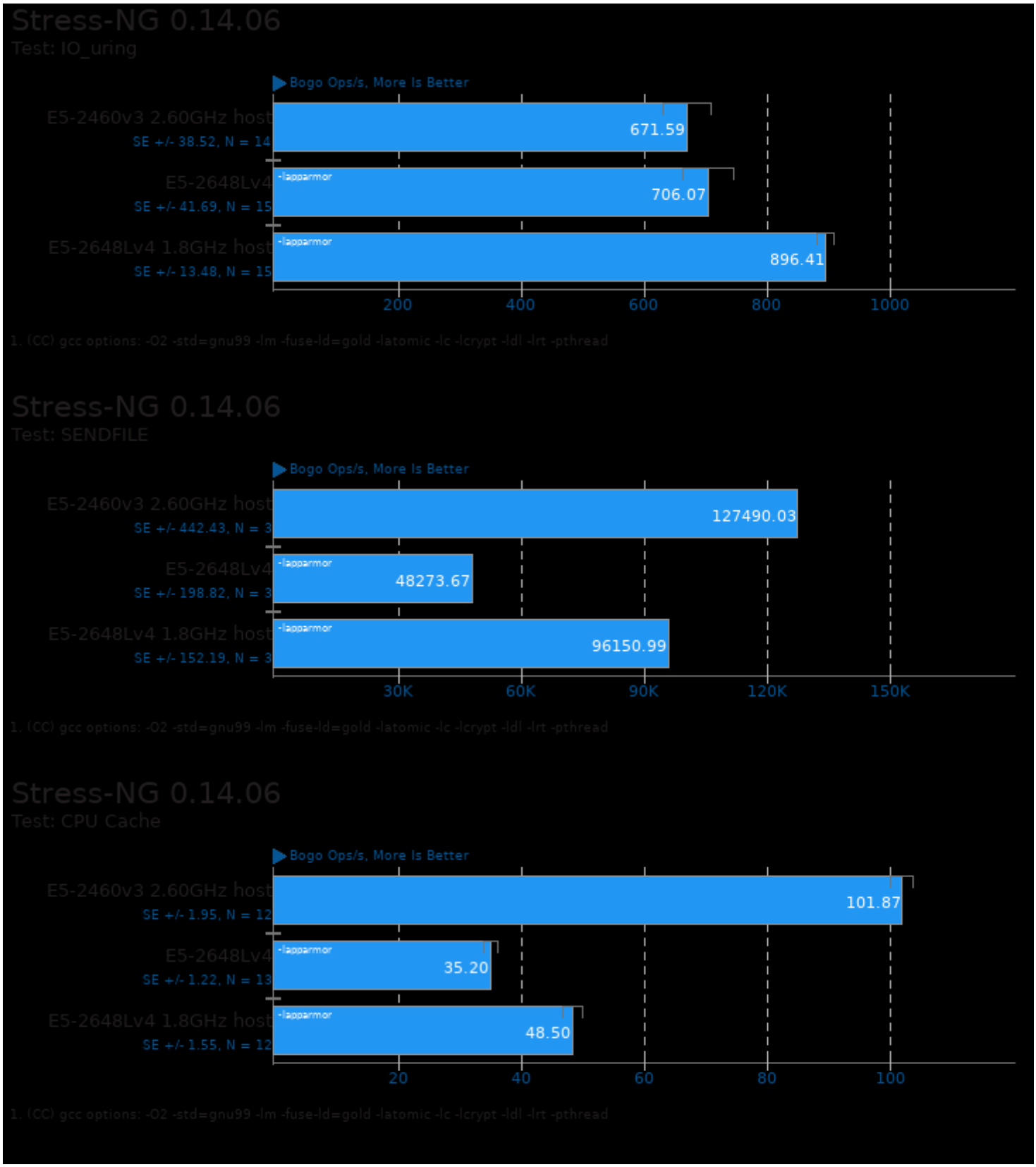
Test: Futex

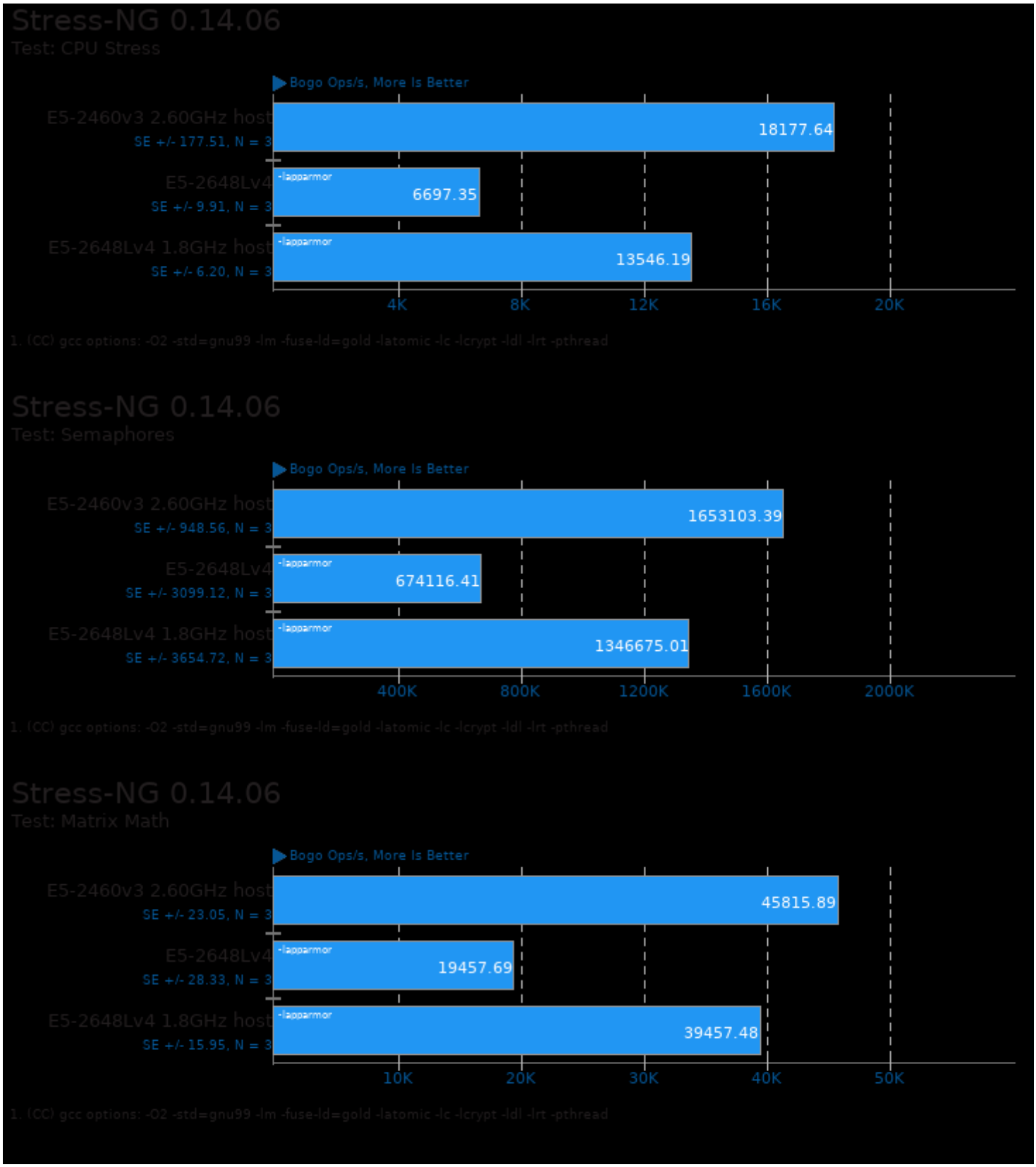


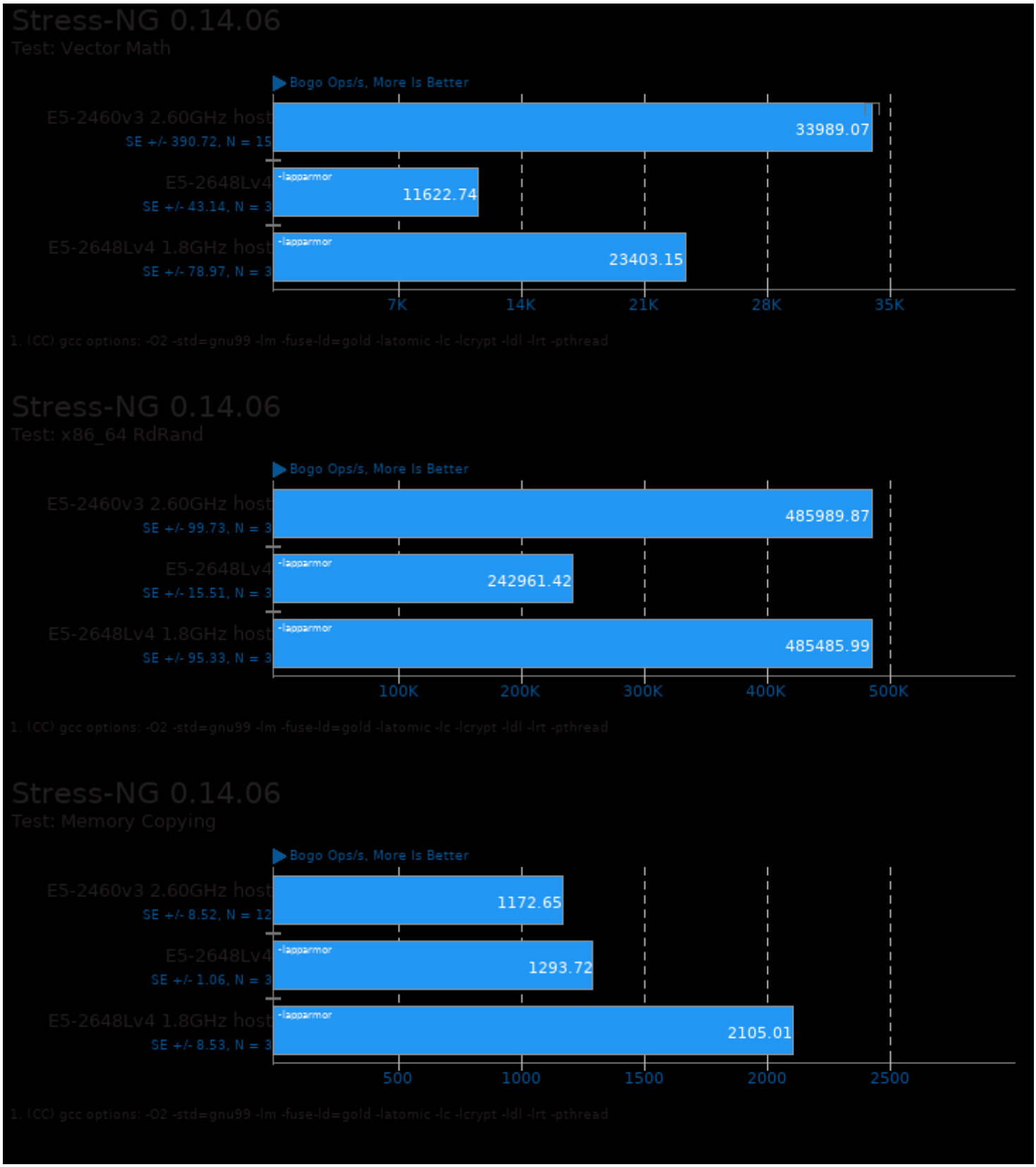
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread

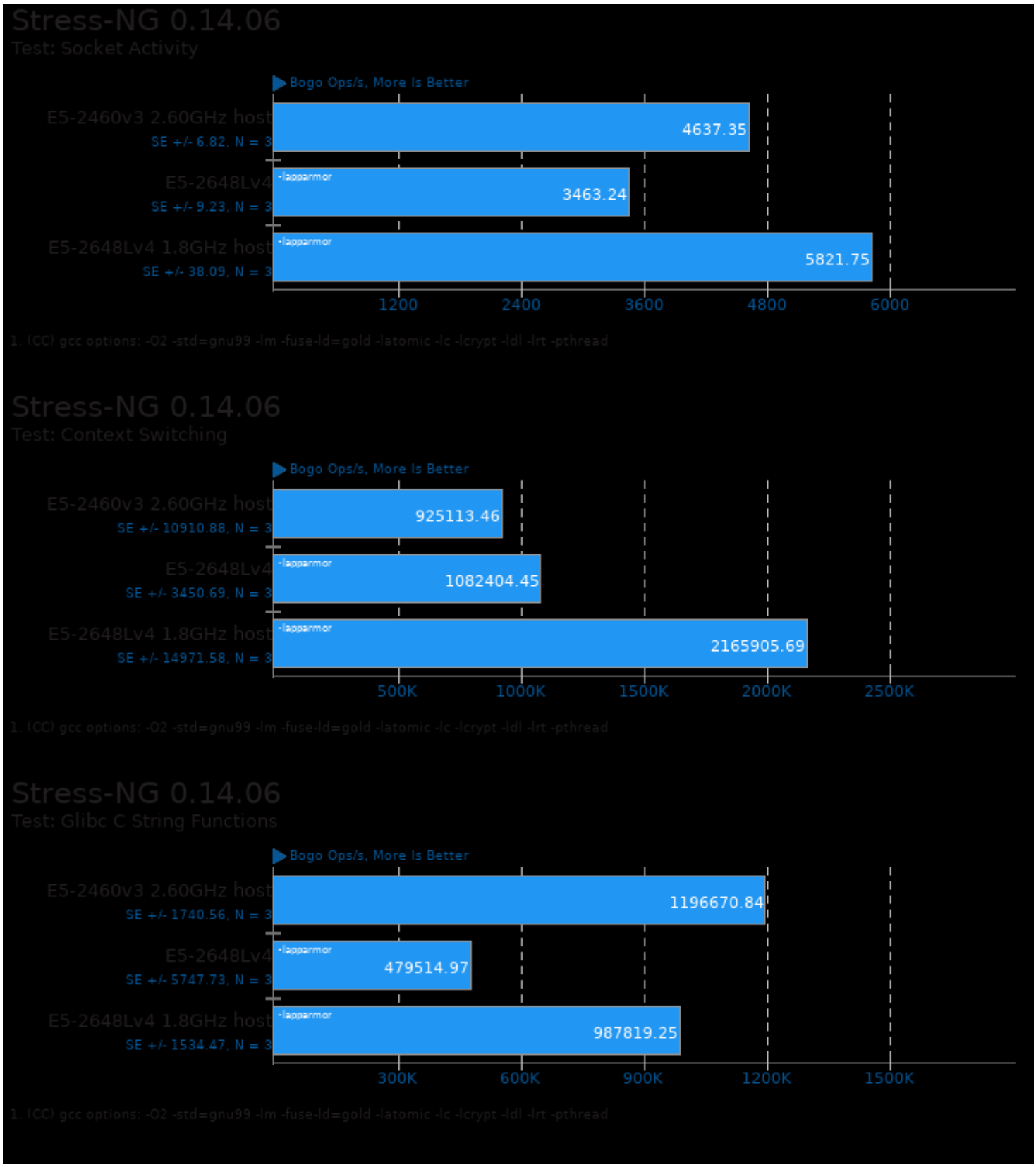

Stress-NG 0.14.06
Test: MEMFD
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 23.91, N = 12
169.70
E5-2648Lv4
-lapparmor
SE +/- 12.37, N = 15
104.05
E5-2648Lv4 1.8GHz host
-lapparmor
SE +/- 24.29, N = 12
196.57
40
80
120
160
200
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: Mutex
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 12926.52, N = 3
3478040.22
E5-2648Lv4
-lapparmor
SE +/- 6745.07, N = 3
1169039.20
E5-2648Lv4 1.8GHz host
-lapparmor
SE +/- 13542.36, N = 3
2349123.71
700K
1400K
2100K
2800K
3500K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: Atomic
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 1113.73, N = 3
133181.85
E5-2648Lv4
-lapparmor
SE +/- 189.07, N = 3
58090.66
E5-2648Lv4 1.8GHz host
-lapparmor
SE +/- 686.67, N = 5
67367.32
30K
60K
90K
120K
150K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread

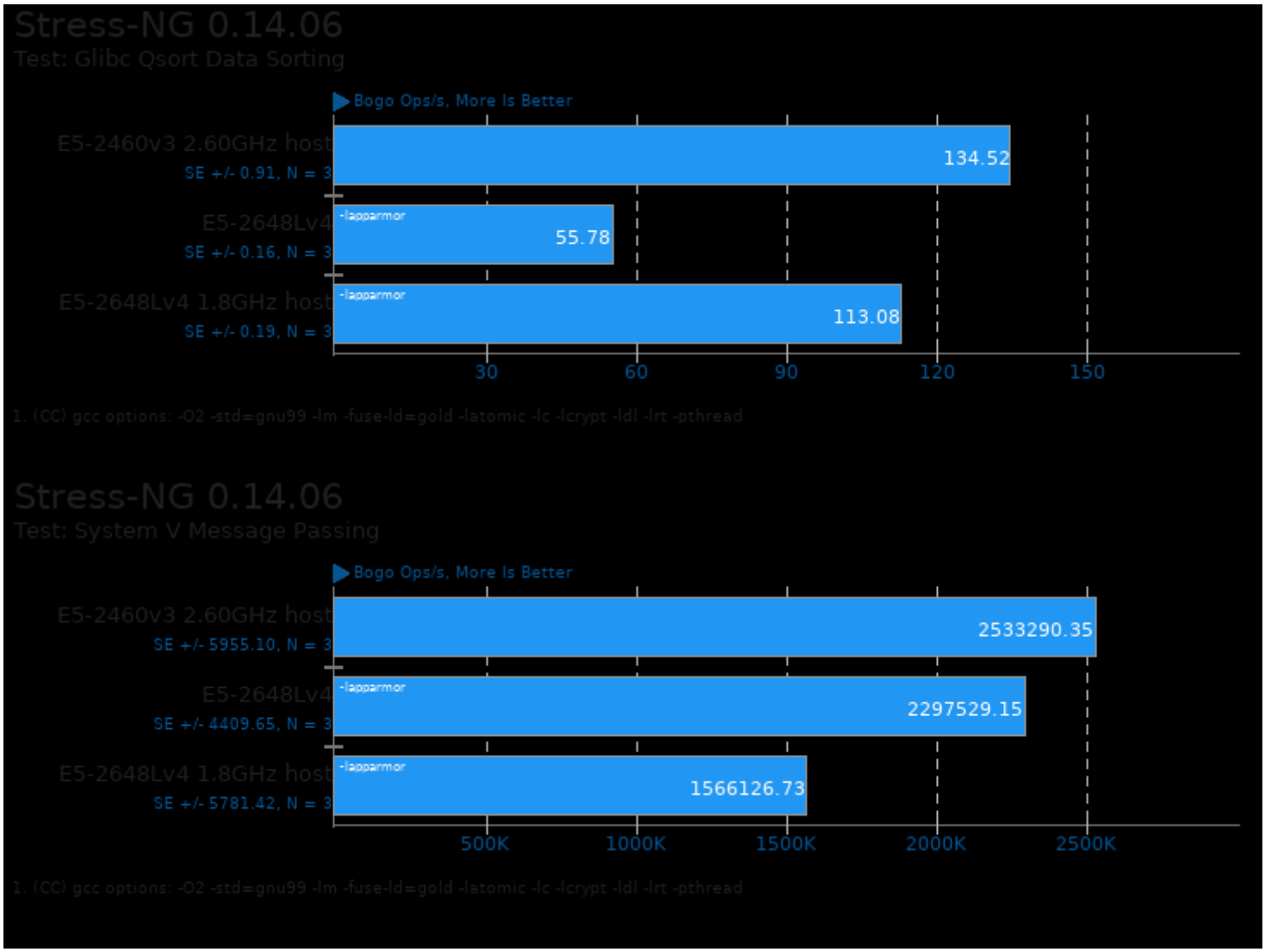

Stress-NG 0.14.06
Test: Crypto
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 191.18, N = 15
11392.48
E5-2648Lv4
SE +/- 5.88, N = 3
-lapparmor
5378.75
E5-2648Lv4 1.8GHz host
SE +/- 45.66, N = 3
-lapparmor
10861.70
2K
4K
6K
8K
10K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: Malloc
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 11863.92, N = 3
7579510.75
E5-2648Lv4
SE +/- 2266.89, N = 3
-lapparmor
1453425.68
E5-2648Lv4 1.8GHz host
SE +/- 10595.31, N = 3
-lapparmor
5518843.58
1.6M
3.2M
4.8M
6.4M
8M
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: Forking
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 235.06, N = 3
28481.25
E5-2648Lv4
SE +/- 67.19, N = 3
-lapparmor
17703.27
E5-2648Lv4 1.8GHz host
SE +/- 128.68, N = 3
-lapparmor
25808.42
6K
12K
18K
24K
30K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread


Stress-NG 0.14.06
Test: IO_uring
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 38.52, N = 14
671.59
E5-2648Lv4
-lapparmor
SE +/- 41.69, N = 15
706.07
E5-2648Lv4 1.8GHz host
-lapparmor
SE +/- 13.48, N = 15
896.41
200
400
600
800
1000
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: SENDFILE
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 442.43, N = 3
127490.03
E5-2648Lv4
-lapparmor
SE +/- 198.82, N = 3
48273.67
E5-2648Lv4 1.8GHz host
-lapparmor
SE +/- 152.19, N = 3
96150.99
30K
60K
90K
120K
150K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: CPU Cache
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 1.95, N = 12
101.87
E5-2648Lv4
-lapparmor
SE +/- 1.22, N = 13
35.20
E5-2648Lv4 1.8GHz host
-lapparmor
SE +/- 1.55, N = 12
48.50
20
40
60
80
100
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread


Stress-NG 0.14.06
Test: CPU Stress
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 177.51, N = 3
18177.64
E5-2648Lv4
SE +/- 9.91, N = 3
-lapparmor
6697.35
E5-2648Lv4 1.8GHz host
SE +/- 6.20, N = 3
-lapparmor
13546.19
4K
8K
12K
16K
20K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: Semaphores
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 948.56, N = 3
1653103.39
E5-2648Lv4
SE +/- 3099.12, N = 3
-lapparmor
674116.41
E5-2648Lv4 1.8GHz host
SE +/- 3654.72, N = 3
-lapparmor
1346675.01
400K
800K
1200K
1600K
2000K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: Matrix Math
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 23.05, N = 3
45815.89
E5-2648Lv4
SE +/- 28.33, N = 3
-lapparmor
19457.69
E5-2648Lv4 1.8GHz host
SE +/- 15.95, N = 3
-lapparmor
39457.48
10K
20K
30K
40K
50K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread


Stress-NG 0.14.06
Test: Vector Math
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 390.72, N = 15
33989.07
E5-2648Lv4
SE +/- 43.14, N = 3
-lapparmor
11622.74
E5-2648Lv4 1.8GHz host
SE +/- 78.97, N = 3
-lapparmor
23403.15
7K
14K
21K
28K
35K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: x86_64 RdRand
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 99.73, N = 3
485989.87
E5-2648Lv4
SE +/- 15.51, N = 3
-lapparmor
242961.42
E5-2648Lv4 1.8GHz host
SE +/- 95.33, N = 3
-lapparmor
485485.99
100K
200K
300K
400K
500K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: Memory Copying
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 8.52, N = 12
1172.65
E5-2648Lv4
SE +/- 1.06, N = 3
-lapparmor
1293.72
E5-2648Lv4 1.8GHz host
SE +/- 8.53, N = 3
-lapparmor
2105.01
500
1000
1500
2000
2500
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread


Stress-NG 0.14.06
Test: Socket Activity
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 6.82, N = 3
4637.35
E5-2648Lv4
-lapparmor
SE +/- 9.23, N = 3
3463.24
E5-2648Lv4 1.8GHz host
-lapparmor
SE +/- 38.09, N = 3
5821.75
1200
2400
3600
4800
6000
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: Context Switching
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 10910.88, N = 3
925113.46
E5-2648Lv4
-lapparmor
SE +/- 3450.69, N = 3
1082404.45
E5-2648Lv4 1.8GHz host
-lapparmor
SE +/- 14971.58, N = 3
2165905.69
500K
1000K
1500K
2000K
2500K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread
Stress-NG 0.14.06
Test: Glibc C String Functions
Bogo Ops/s, More Is Better
E5-2460v3 2.60GHz host
SE +/- 1740.56, N = 3
1196670.84
E5-2648Lv4
-lapparmor
SE +/- 5747.73, N = 3
479514.97
E5-2648Lv4 1.8GHz host
-lapparmor
SE +/- 1534.47, N = 3
987819.25
300K
600K
900K
1200K
1500K
1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -latomic -lc -lcrypt -ldl -lrt -pthread



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 12:36.