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Intel Core i9-10980XE testing with a ASRock X299 Steel Legend (P1.30 BIOS) and NVIDIA GeForce GTX 1080 Ti 11GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

A had the most wins, coming in first place for 53% of the tests.

Based on the geometric mean of all complete results, the fastest (B) was 1.173x the speed of the slowest (A). C was 0.947x the speed of B and A was 0.9x the speed of C.

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

TensorFlow Lite (Model: Inception V4) at 27.965x
TensorFlow Lite (Model: SqueezeNet) at 20.438x
TensorFlow Lite (Model: Mobilenet Float) at 7.834x
TensorFlow Lite (Model: NASNet Mobile) at 4.592x
TensorFlow Lite (Model: Inception ResNet V2) at 2.68x
Stress-NG (Test: NUMA) at 1.432x
Stress-NG (Test: Futex) at 1.272x
Renaissance (Test: In-Memory Database Shootout) at 1.151x
Renaissance (Test: Genetic Algorithm Using Jenetics + Futures) at 1.148x

Renaissance (Test: Random Forest) at 1.087x.

Test Systems:

A

B

Processor: Intel Core i9-10980XE @ 4.80GHz (18 Cores / 36 Threads), Motherboard: ASRock X299 Steel Legend (P1.30 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 32GB, Disk: Samsung SSD 970 PRO 512GB, Graphics: NVIDIA GeForce GTX 1080 Ti 11GB, Audio: Realtek ALC1220, Monitor: ASUS VP28U, Network: Intel I219-V + Intel I211

OS: Ubuntu 22.04, Kernel: 5.15.0-23-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13, Display Driver: NVIDIA 495.46, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.5.103, Vulkan: 1.2.186, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

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-pWTZs6/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-pWTZs6/gcc-11-11.2.0/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: Scaling Governor: intel_cpufreq schedutil - CPU Microcode: 0x5003102
OpenCL Notes: GPU Compute Cores: 3584
Java Notes: OpenJDK Runtime Environment (build 11.0.13+8-Ubuntu-0ubuntu1)
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of TSX disabled

C

Processor: Intel Core i9-10980XE @ 4.80GHz (18 Cores / 36 Threads), Motherboard: ASRock X299 Steel Legend (P1.30 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 32GB, Disk: Samsung SSD 970 PRO 512GB, Graphics: NVIDIA GeForce GTX 1080 Ti 11GB, Audio: Realtek ALC1220, Monitor: ASUS VP28U, Network: Intel I219-V + Intel I211

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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-pWTZs6/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-pWTZs6/gcc-11-11.2.0/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: Scaling Governor: intel_cpufreq schedutil - CPU Microcode: 0x5003102
OpenCL Notes: GPU Compute Cores: 3584
Java Notes: OpenJDK Runtime Environment (build 11.0.13+8-Ubuntu-0ubuntu1)
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: 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 Enhanced IBRS IBPB:

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conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of TSX disabled

	A	B	C
Blender - BMW27 - CPU-Only (sec)	721.23	722.59	723.06
Normalized	100%	99.81%	99.75%
Blender - Classroom - CPU-Only (sec)	914.56	924.14	921.4
Normalized	100%	98.96%	99.26%
Blender - Fishy Cat - CPU-Only (sec)	994.05		996.33
Normalized	100%		99.77%
Blender - Barbershop - CPU-Only (sec)	3589		
Glibc Benchmarks - cos (ns)	66.6064	67.505	69.8979
Normalized	100%	98.67%	95.29%
Glibc Benchmarks - exp (ns)	14.4795	14.8901	15.23
Normalized	100%	97.24%	95.07%
Glibc Benchmarks - ffs (ns)	4.45617	4.52621	4.61773
Normalized	100%	98.45%	96.5%
Glibc Benchmarks - sin (ns)	56.1902	59.0461	59.4429
Normalized	100%	95.16%	94.53%
Glibc Benchmarks - log2 (ns)	17.1661	17.9569	17.8706
Normalized	100%	95.6%	96.06%
Glibc Benchmarks - modf (ns)	7.35843	7.46762	7.53575
Normalized	100%	98.54%	97.65%
Glibc Benchmarks - sinh (ns)	24.3514	24.8483	25.0249
Normalized	100%	98%	97.31%
Glibc Benchmarks - sqrt (ns)	5.98245	6.10421	6.16684
Normalized	100%	98.01%	97.01%
Glibc Benchmarks - tanh (ns)	34.9775	35.5004	36.1667
Normalized	100%	98.53%	96.71%
Glibc Benchmarks - asinh (ns)	27.4457	28.0497	28.3699
Normalized	100%	97.85%	96.74%
Glibc Benchmarks - atanh (ns)	32.4944	31.9899	32.3407
Normalized	98.45%	100%	98.92%
Glibc Benchmarks - ffsll (ns)	4.69983	4.76771	4.79896
Normalized	100%	98.58%	97.93%
Glibc Benchmarks - sincos (ns)	42.109	42.8734	43.4328
Normalized	100%	98.22%	96.95%
Glibc Benchmarks - pthread_once (ns)	4.00745	4.06966	4.11887
Normalized	100%	98.47%	97.29%
GROMACS - MPI CPU - water_GMX50_bare (Ns/Day)	1.581	1.502	1.522
Normalized	100%	95%	96.27%
Renaissance - Scala Dotty (ms)	939.7	958.3	977.9
Normalized	100%	98.06%	96.09%
Renaissance - Rand Forest (ms)	993.2	972.9	913.6
Normalized	91.99%	93.9%	100%
Renaissance - ALS Movie Lens (ms)	16735	16432	16486
Normalized	98.19%	100%	99.67%
Renaissance - Apache Spark ALS (ms)	3869	3879	3910
Normalized	100%	99.74%	98.93%

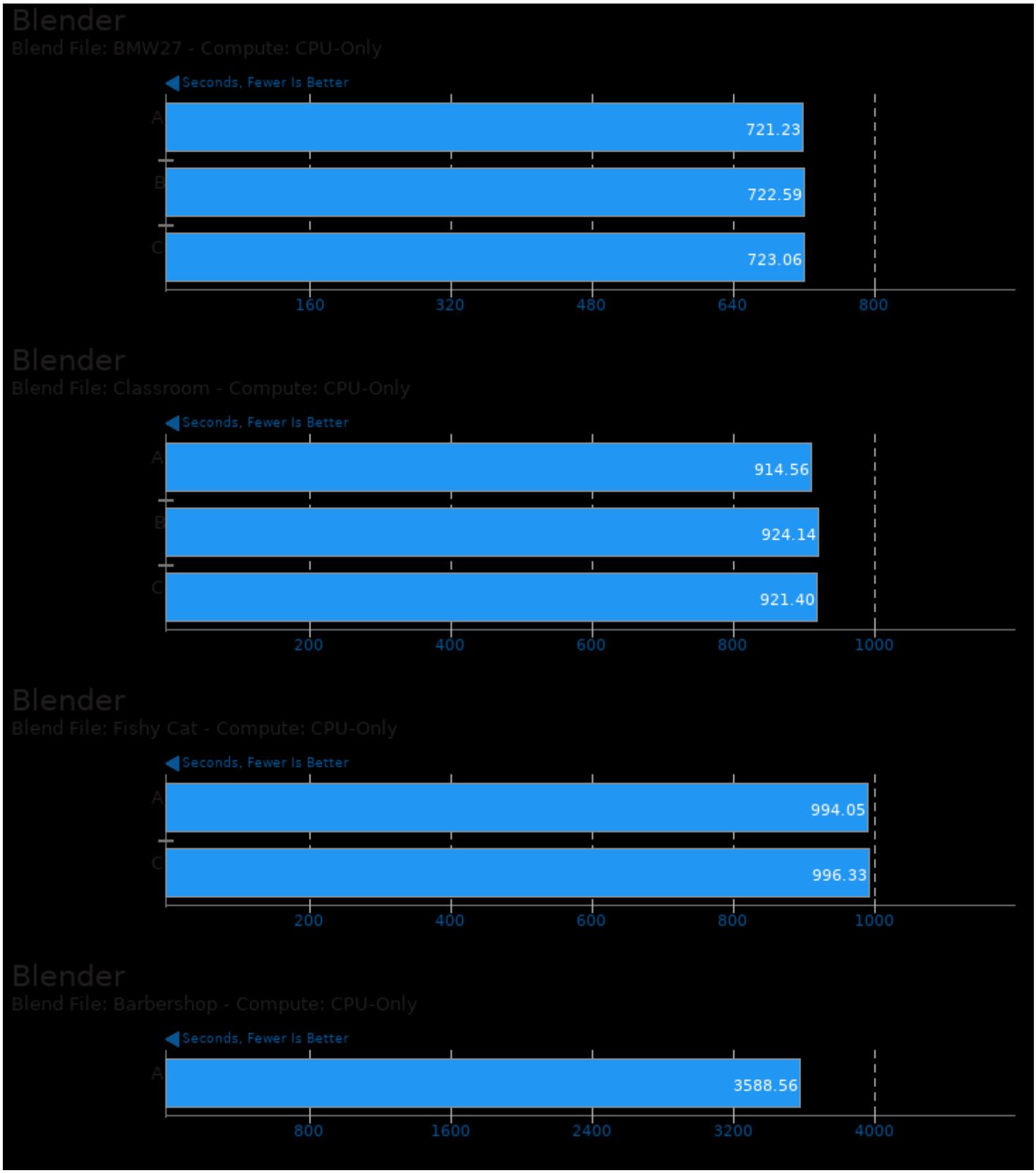
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Renaissance - Apache Spark Bayes (ms)	**1101**	**1120**	1117
Normalized	100%	98.34%	98.57%
Renaissance - Savina Reactors.IO (ms)	**10743**	10817	**11277**
Normalized	100%	99.32%	95.26%
Renaissance - A.S.P (ms)	**3874**	**3971**	3911
Normalized	100%	97.55%	99.04%
Renaissance - F.H.R (ms)	5179	**5184**	**4846**
Normalized	93.58%	93.48%	100%
Renaissance - I.M.D.S (ms)	**6070**	5438	**5272**
Normalized	86.87%	96.95%	100%
Renaissance - A.U.C.T (ms)	**13513**	14273	**14407**
Normalized	100%	94.68%	93.79%
Renaissance - G.A.U.J.F (ms)	**5922**	**5160**	5166
Normalized	87.13%	100%	99.87%
Stress-NG - MMAP (Bogo Ops/s)	**445.56**	**435.49**	442.34
Normalized	100%	97.74%	99.28%
Stress-NG - NUMA (Bogo Ops/s)	**366.57**	**256.05**	273.12
Normalized	100%	69.85%	74.51%
Stress-NG - Futex (Bogo Ops/s)	**1575411**	1282626	**1238856**
Normalized	100%	81.42%	78.64%
Stress-NG - MEMFD (Bogo Ops/s)	**1089**	**1082**	1085
Normalized	100%	99.31%	99.58%
Stress-NG - Atomic (Bogo Ops/s)	**212776**	223457	**228263**
Normalized	93.22%	97.89%	100%
Stress-NG - Crypto (Bogo Ops/s)	22818	**22789**	**22831**
Normalized	99.94%	99.82%	100%
Stress-NG - Malloc (Bogo Ops/s)	**30698931**	**30032469**	30199763
Normalized	100%	97.83%	98.37%
Stress-NG - Forking (Bogo Ops/s)	**70369**	69296	**68342**
Normalized	100%	98.48%	97.12%
Stress-NG - IO_uring (Bogo Ops/s)	**53829**	**51484**	53017
Normalized	100%	95.64%	98.49%
Stress-NG - SENDFILE (Bogo Ops/s)	**339073**	338938	**338842**
Normalized	100%	99.96%	99.93%
Stress-NG - CPU Cache (Bogo Ops/s)	95.79	**93.82**	**101.56**
Normalized	94.32%	92.38%	100%
Stress-NG - CPU Stress (Bogo Ops/s)	40340	**40367**	**39876**
Normalized	99.93%	100%	98.78%
Stress-NG - Semaphores (Bogo Ops/s)	**3635351**	**3624589**	3629436
Normalized	100%	99.7%	99.84%
Stress-NG - Matrix Math (Bogo Ops/s)	88011	**87934**	**88061**
Normalized	99.94%	99.86%	100%
Stress-NG - Vector Math (Bogo Ops/s)	69511	**69463**	**69557**
Normalized	99.93%	99.87%	100%
Stress-NG - x86_64 RdRand (Bogo Ops/s)	**183700**	183814	**183827**
Normalized	99.93%	99.99%	100%
Stress-NG - Memory Copying (Bogo Ops/s)	2115	**2086**	**2143**
Normalized	98.69%	97.33%	100%
Stress-NG - Socket Activity (Bogo Ops/s)	**8829**	**8855**	8843
Normalized	99.7%	100%	99.86%
Stress-NG - Context Switching (Bogo Ops/s)	1766749	**1719548**	**1805491**
Normalized	97.85%	95.24%	100%
Stress-NG - G.C.S.F (Bogo Ops/s)	**1076644**	1075194	**1070475**

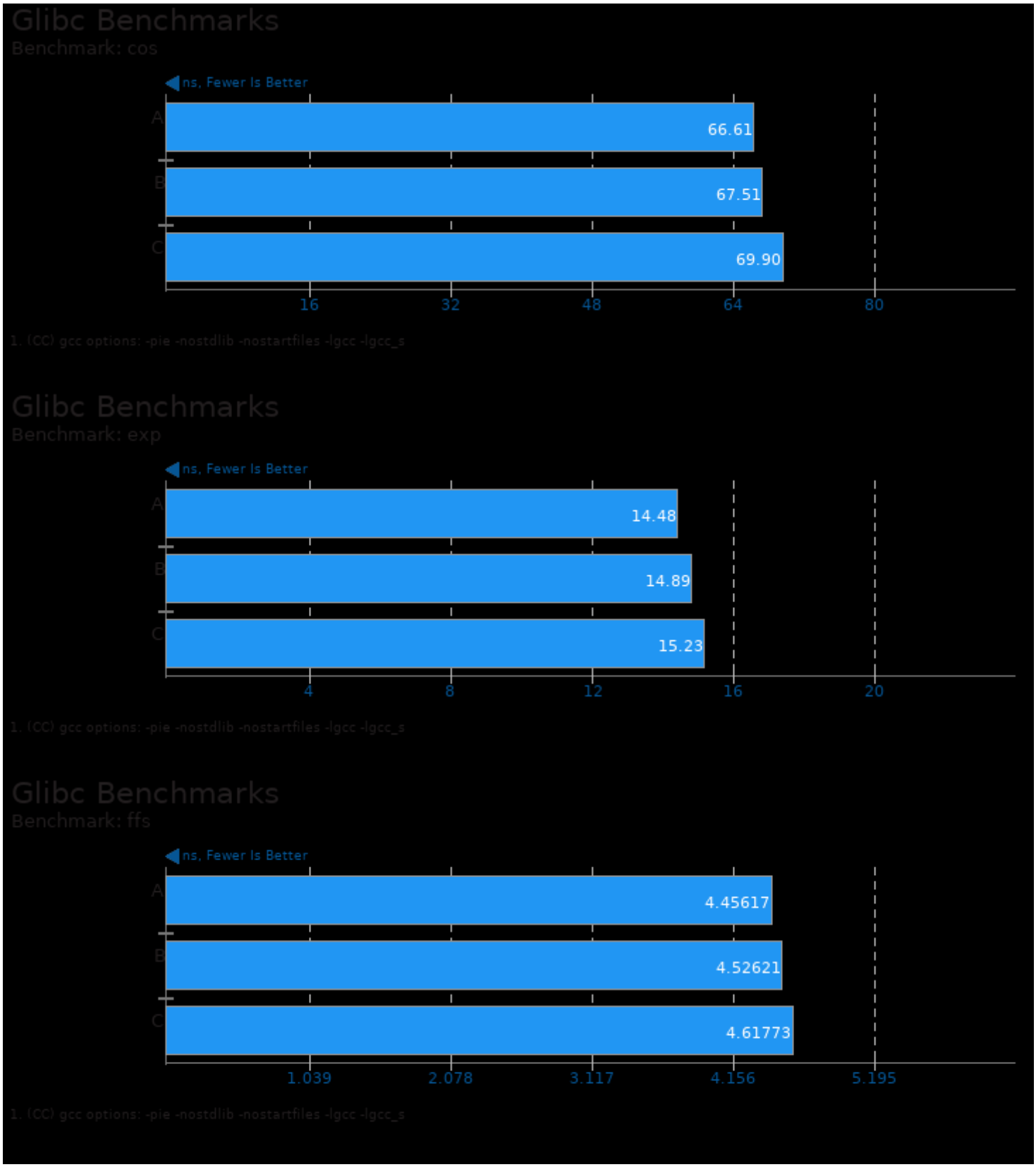
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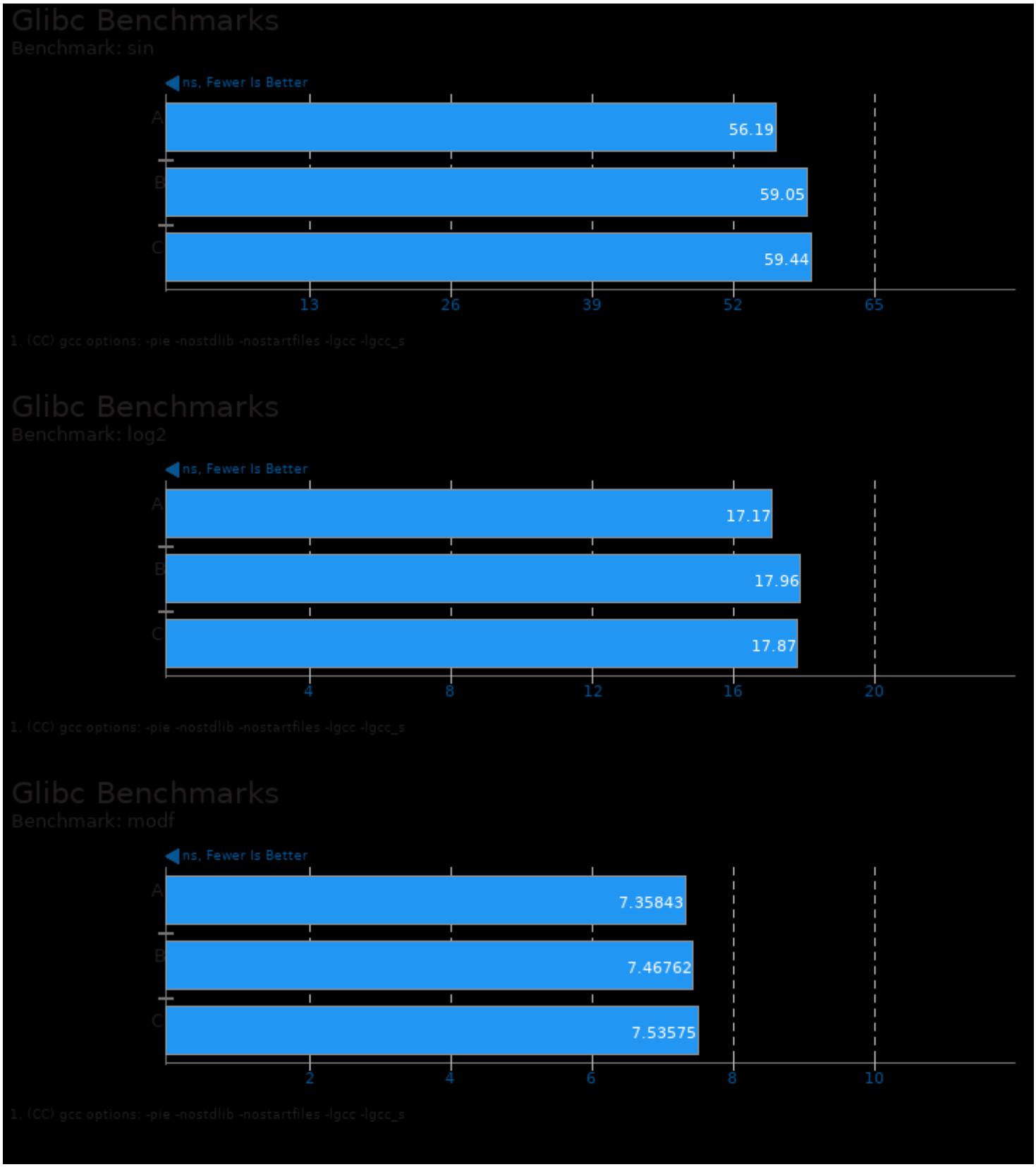
Normalized	100%	99.87%	99.43%
Stress-NG - G.Q.D.S (Bogo Ops/s)	246.43	**248**	**246.23**
Normalized	99.37%	100%	99.29%
Stress-NG - S.V.M.P (Bogo Ops/s)	**6779586**	6845860	**6869544**
Normalized	98.69%	99.66%	100%
TensorFlow Lite - SqueezeNet (us)	**549322**	**26877**	121496
Normalized	4.89%	100%	22.12%
TensorFlow Lite - Inception V4 (us)	**3073600**	**109910**	449916
Normalized	3.58%	100%	24.43%
TensorFlow Lite - NASNet Mobile (us)	**6651910**	**1448520**	2268610
Normalized	21.78%	100%	63.85%
TensorFlow Lite - Mobilenet Float (us)	**345091**	**44051**	74338
Normalized	12.76%	100%	59.26%
TensorFlow Lite - Mobilenet Quant (us)	**45050**	**44598**	44696
Normalized	99%	100%	99.78%
TensorFlow Lite - I.R.V (us)	**3355600**	1738120	**1252140**
Normalized	37.31%	72.04%	100%
WebP2 Image Encode - Default (sec)	2.845	**2.97**	**2.789**
Normalized	98.03%	93.91%	100%
WebP2 Image Encode - Q.7.C.E.7 (sec)	**135.231**	135.2	**133.27**
Normalized	98.55%	98.57%	100%
WebP2 Image Encode - Q.9.C.E.7 (sec)	283.252	**284.917**	**280.823**
Normalized	99.14%	98.56%	100%
WebP2 Image Encode - Q.1.C.E.5 (sec)	**3.88**	**3.849**	3.879
Normalized	99.2%	100%	99.23%
WebP2 Image Encode - Q.1.L.C (sec)	**691.804**	678.078	**673.697**
Normalized	97.38%	99.35%	100%

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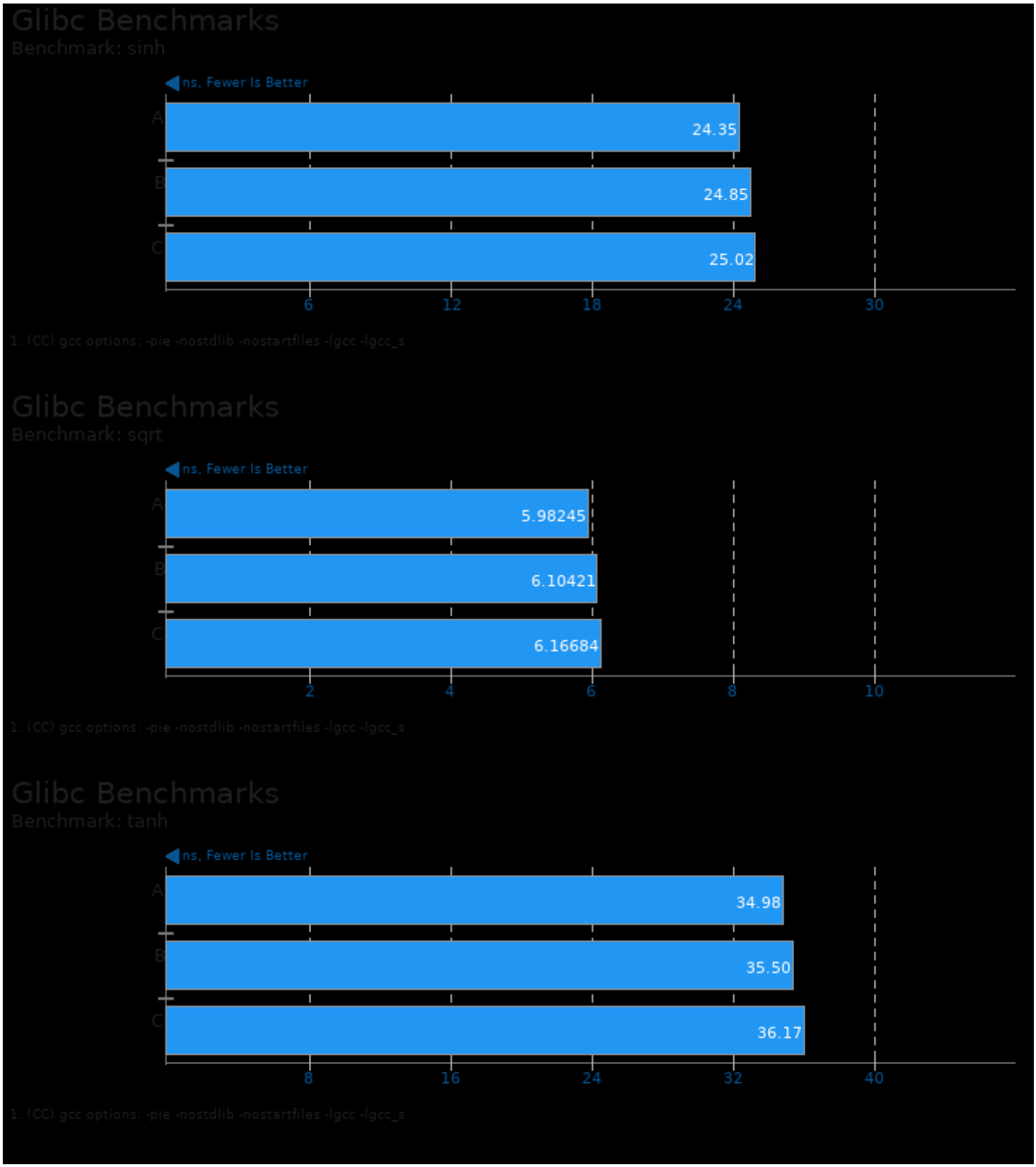

Blender
Blend File: BMW27 - Compute: CPU-Only
Seconds, Fewer Is Better
A
721.23
B
722.59
C
723.06
160
320
480
640
800
Blender
Blend File: Classroom - Compute: CPU-Only
Seconds, Fewer Is Better
A
914.56
B
924.14
C
921.40
200
400
600
800
1000
Blender
Blend File: Fishy Cat - Compute: CPU-Only
Seconds, Fewer Is Better
A
994.05
C
996.33
200
400
600
800
1000
Blender
Blend File: Barbershop - Compute: CPU-Only
Seconds, Fewer Is Better
A
3588.56
800
1600
2400
3200
4000

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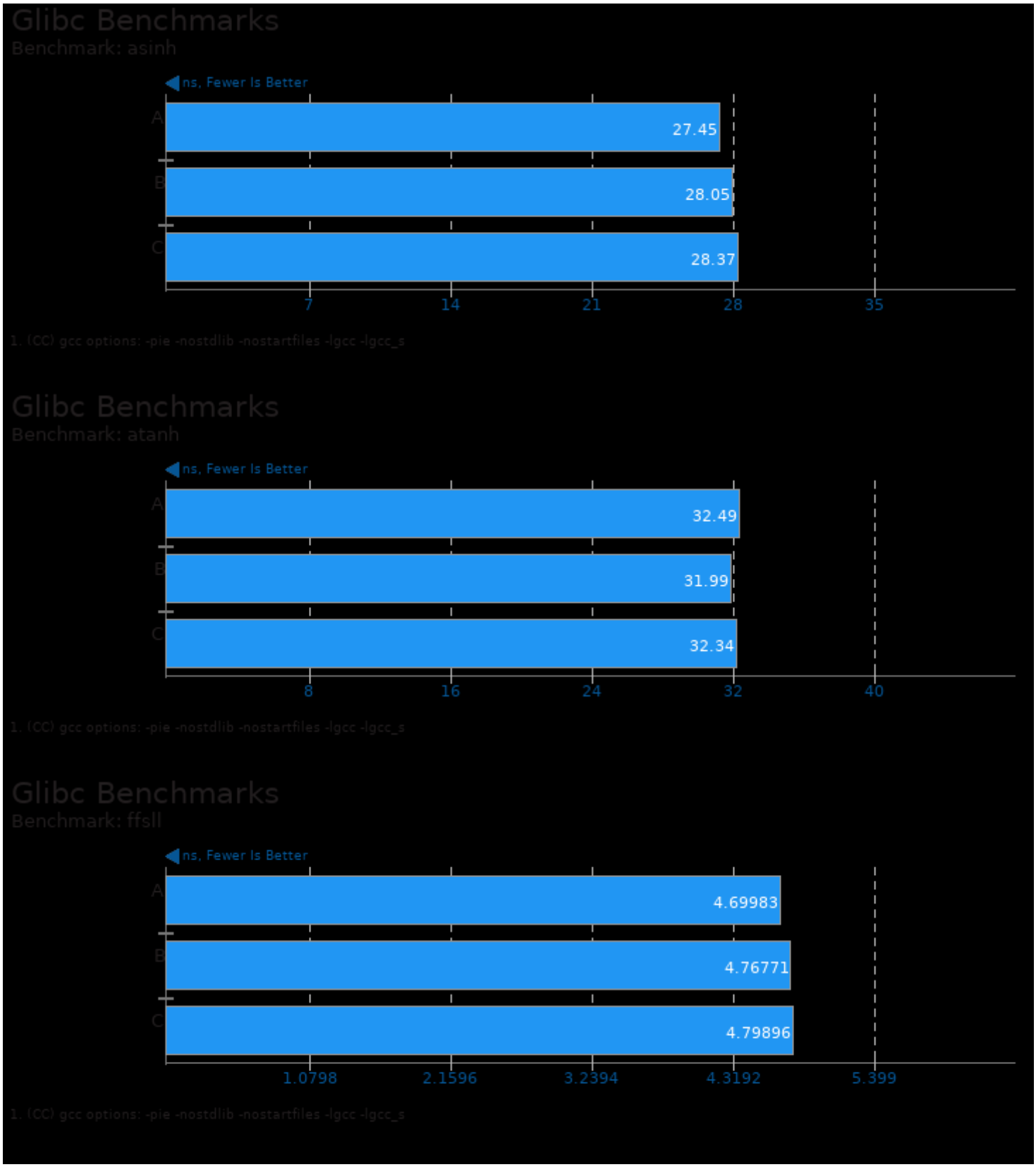

Glibc Benchmarks
Benchmark: cos
ns, Fewer Is Better
A
B
C
66.61
67.51
69.90
16
32
48
64
80
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s
Glibc Benchmarks
Benchmark: exp
ns, Fewer Is Better
A
B
C
14.48
14.89
15.23
4
8
12
16
20
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s
Glibc Benchmarks
Benchmark: ffs
ns, Fewer Is Better
A
B
C
4.45617
4.52621
4.61773
1.039
2.078
3.117
4.156
5.195
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s


Glibc Benchmarks
Benchmark: sin
ns, Fewer Is Better
A
B
C
56.19
59.05
59.44
13
26
39
52
65
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s
Glibc Benchmarks
Benchmark: log2
ns, Fewer Is Better
A
B
C
17.17
17.96
17.87
4
8
12
16
20
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s
Glibc Benchmarks
Benchmark: modf
ns, Fewer Is Better
A
B
C
7.35843
7.46762
7.53575
2
4
6
8
10
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

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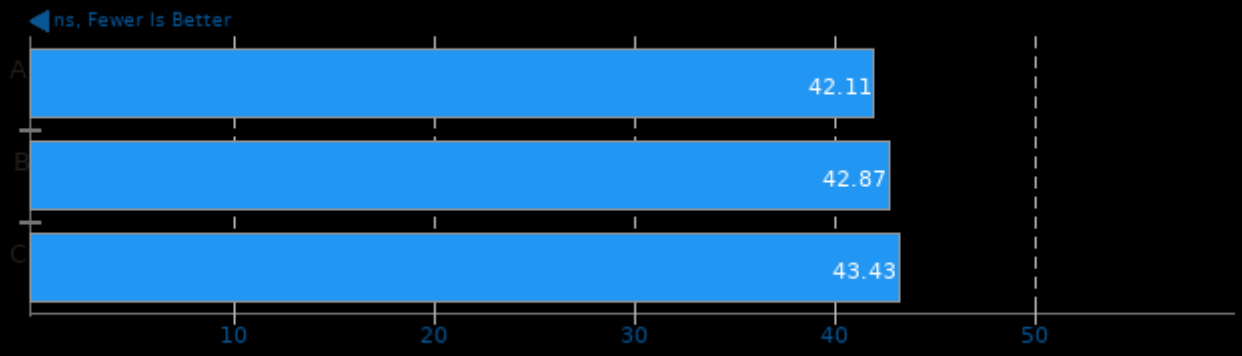

Glibc Benchmarks
Benchmark: sinh
ns, Fewer Is Better
A
B
C
24.35
24.85
25.02
6
12
18
24
30
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s
Glibc Benchmarks
Benchmark: sqrt
ns, Fewer Is Better
A
B
C
5.98245
6.10421
6.16684
2
4
6
8
10
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s
Glibc Benchmarks
Benchmark: tanh
ns, Fewer Is Better
A
B
C
34.98
35.50
36.17
8
16
24
32
40
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

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Glibc Benchmarks
Benchmark: asinh
ns, Fewer Is Better
A
B
C
27.45
28.05
28.37
7
14
21
28
35
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s
Glibc Benchmarks
Benchmark: atanh
ns, Fewer Is Better
A
B
C
32.49
31.99
32.34
8
16
24
32
40
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s
Glibc Benchmarks
Benchmark: ffsll
ns, Fewer Is Better
A
B
C
4.69983
4.76771
4.79896
1.0798
2.1596
3.2394
4.3192
5.399
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

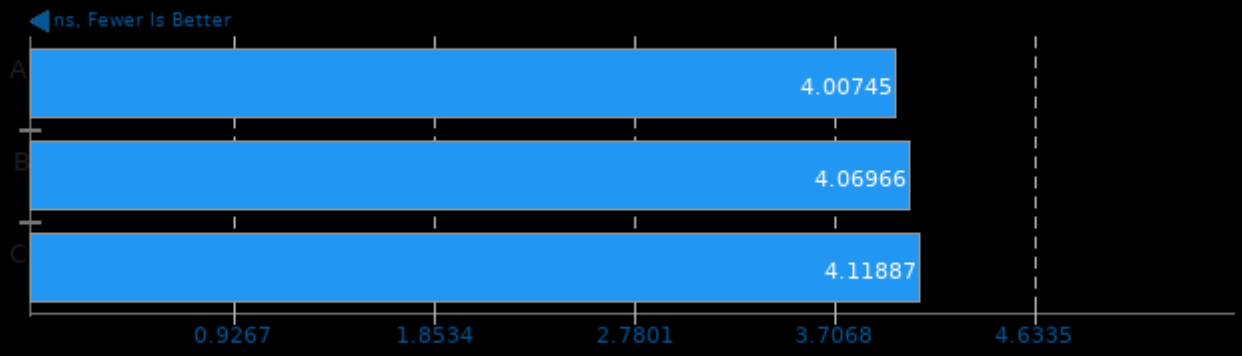
Benchmark: sincos



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks

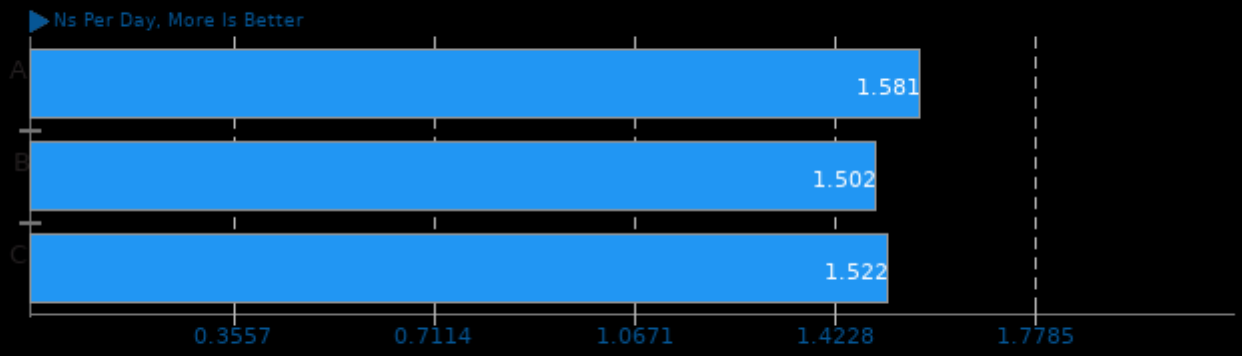
Benchmark: pthread_once



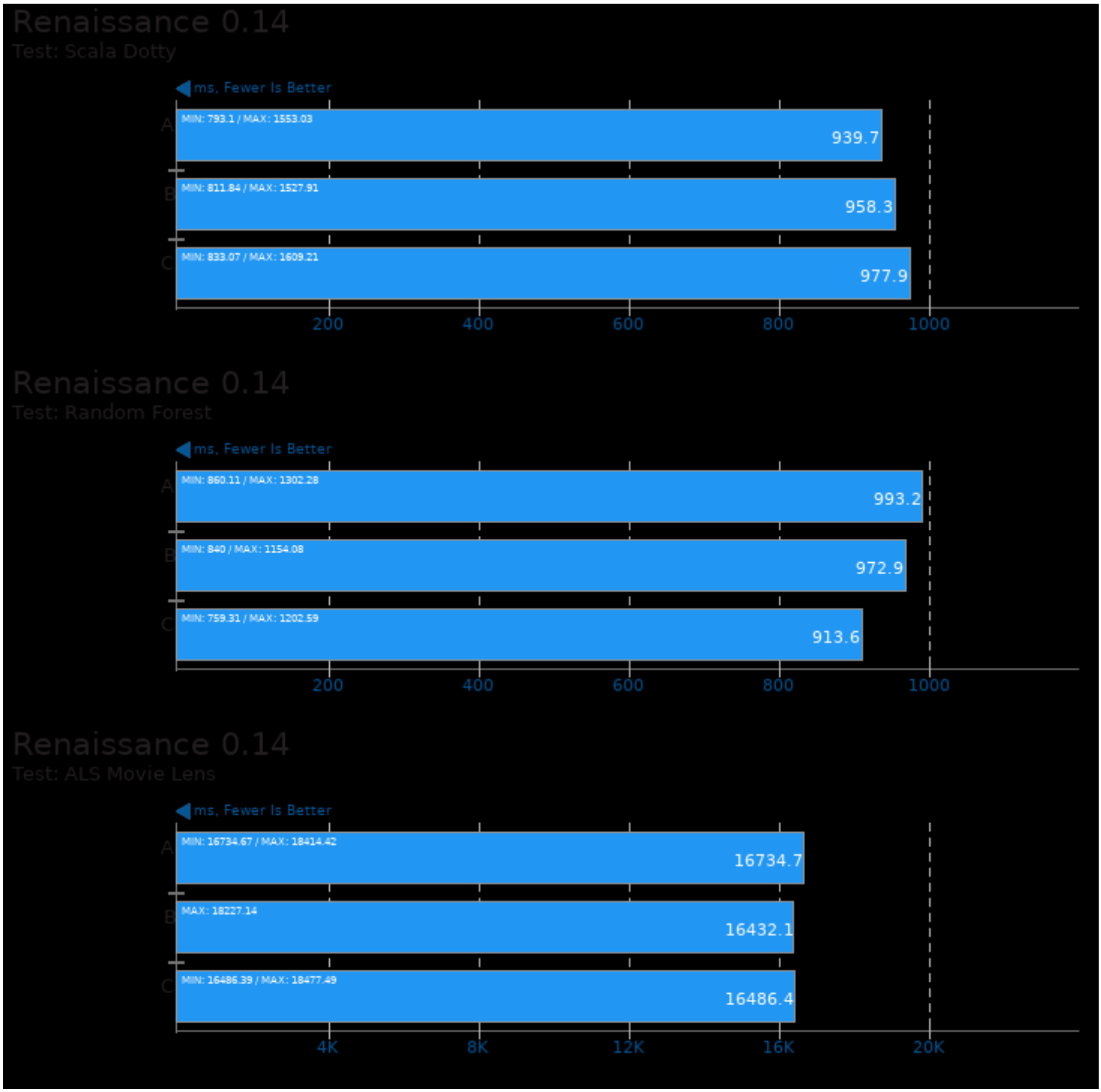
1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

GROMACS 2022.1

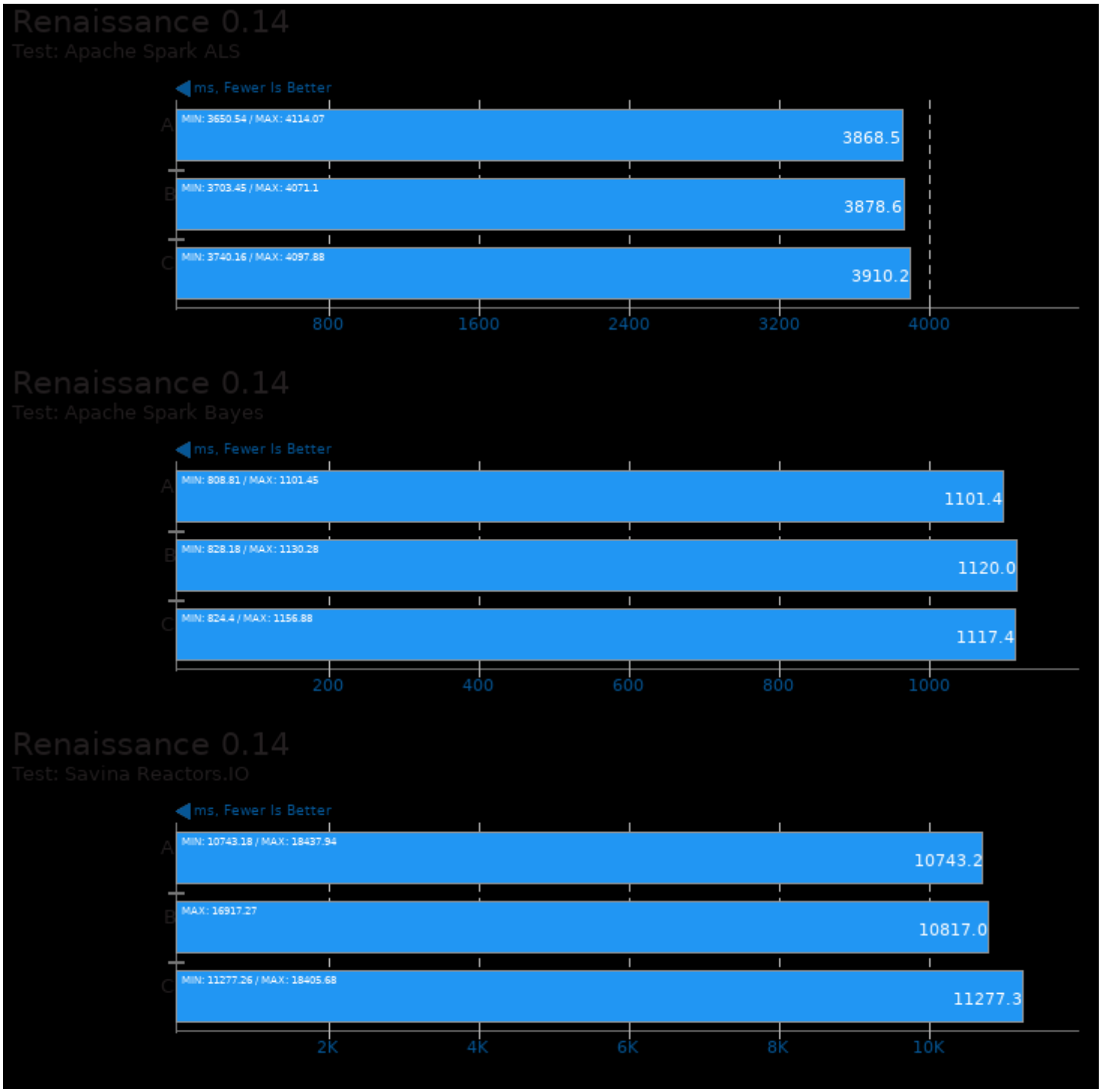
Implementation: MPI CPU - Input: water_GMX50_bare



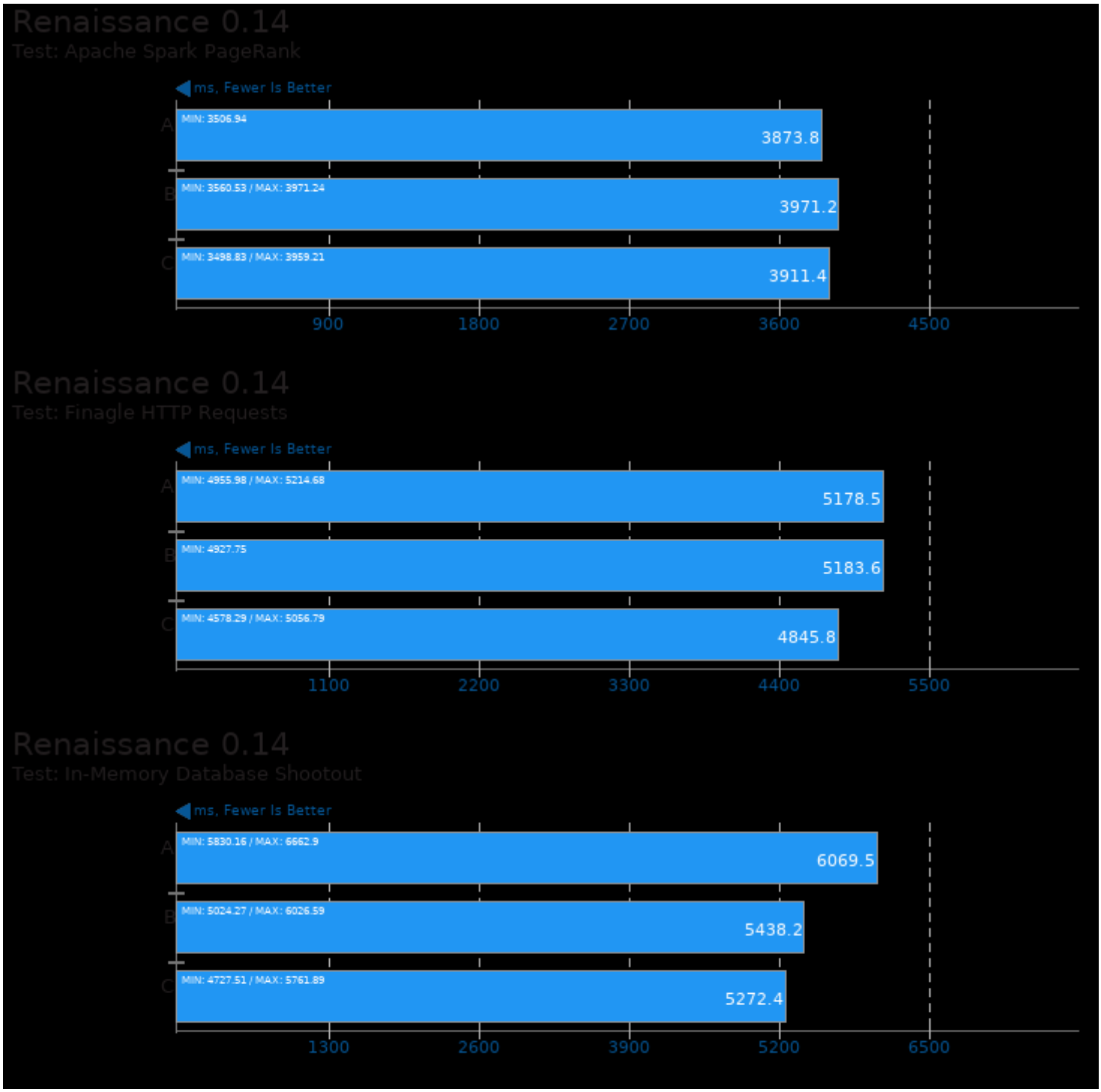
1. (CXX) g++ options: -O3

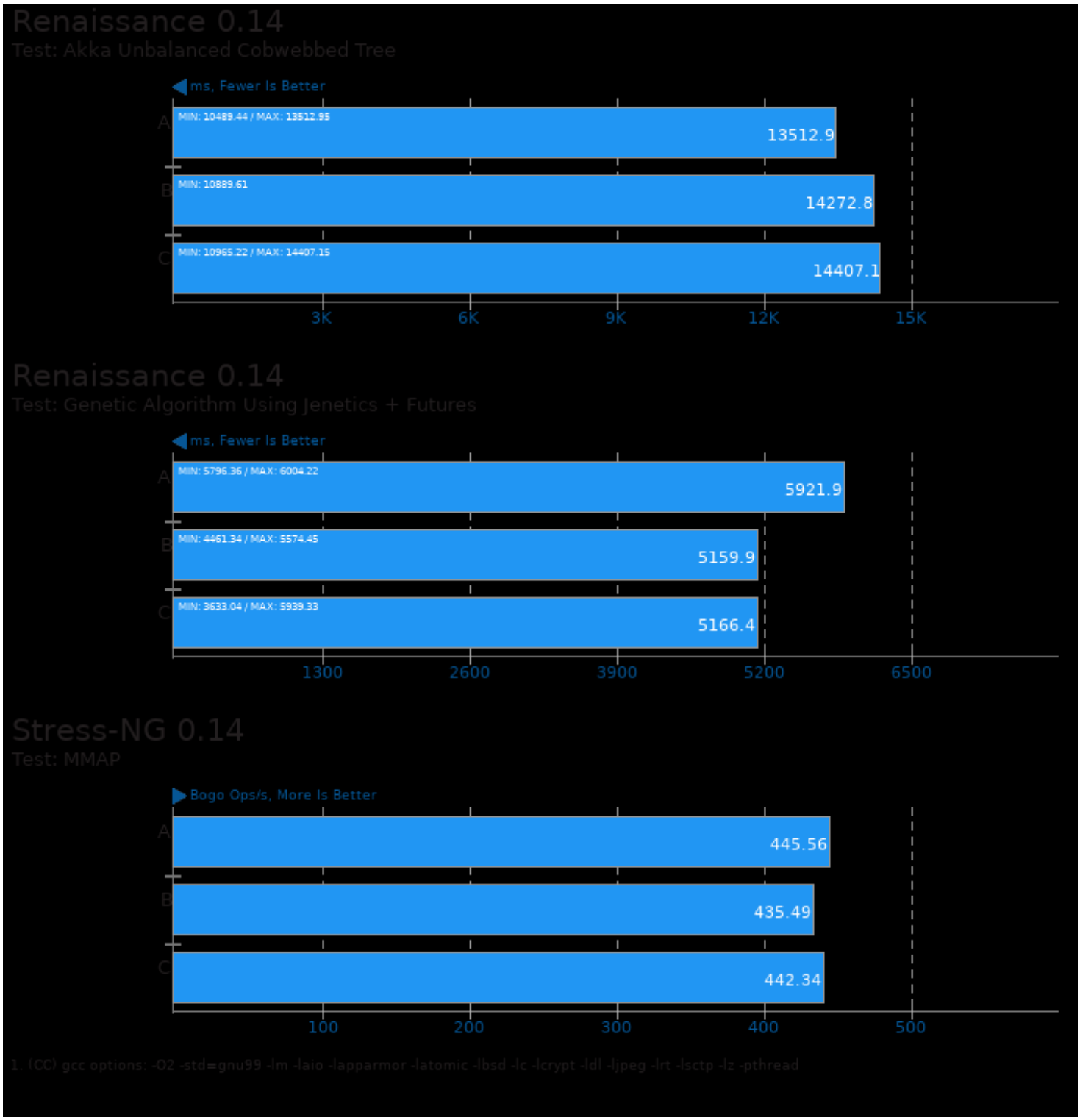

Renaissance 0.14
Test: Scala Dotty
ms, Fewer Is Better
A
MIN: 793.1 / MAX: 1553.03
939.7
B
MIN: 811.84 / MAX: 1527.91
958.3
C
MIN: 833.07 / MAX: 1609.21
977.9
200
400
600
800
1000
Renaissance 0.14
Test: Random Forest
ms, Fewer Is Better
A
MIN: 860.11 / MAX: 1302.28
993.2
B
MIN: 840 / MAX: 1154.08
972.9
C
MIN: 759.31 / MAX: 1202.59
913.6
200
400
600
800
1000
Renaissance 0.14
Test: ALS Movie Lens
ms, Fewer Is Better
A
MIN: 16734.67 / MAX: 18414.42
16734.7
B
MAX: 18227.14
16432.1
C
MIN: 16486.39 / MAX: 18477.49
16486.4
4K
8K
12K
16K
20K

cascade may


Renaissance 0.14
Test: Apache Spark ALS
ms, Fewer Is Better
A
MIN: 3650.54 / MAX: 4114.07
3868.5
B
MIN: 3703.45 / MAX: 4071.1
3878.6
C
MIN: 3740.16 / MAX: 4097.88
3910.2
800
1600
2400
3200
4000
Renaissance 0.14
Test: Apache Spark Bayes
ms, Fewer Is Better
A
MIN: 808.81 / MAX: 1101.45
1101.4
B
MIN: 828.18 / MAX: 1130.28
1120.0
C
MIN: 824.4 / MAX: 1156.88
1117.4
200
400
600
800
1000
Renaissance 0.14
Test: Savina Reactors.IO
ms, Fewer Is Better
A
MIN: 10743.18 / MAX: 18437.94
10743.2
B
MAX: 16917.27
10817.0
C
MIN: 11277.26 / MAX: 18405.68
11277.3
2K
4K
6K
8K
10K

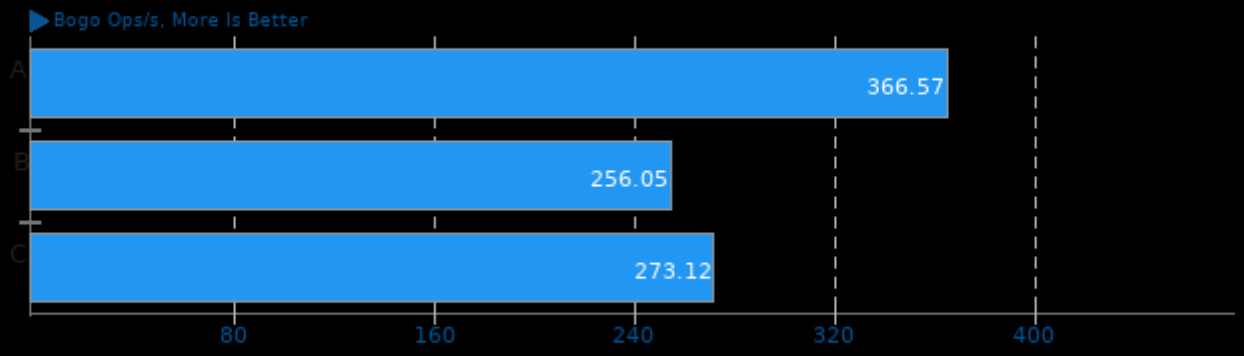
cascade may


Renaissance 0.14
Test: Apache Spark PageRank
ms, Fewer Is Better
A
MIN: 3506.94
3873.8
B
MIN: 3560.53 / MAX: 3971.24
3971.2
C
MIN: 3498.83 / MAX: 3959.21
3911.4
900
1800
2700
3600
4500
Renaissance 0.14
Test: Finagle HTTP Requests
ms, Fewer Is Better
A
MIN: 4955.98 / MAX: 5214.68
5178.5
B
MIN: 4927.75
5183.6
C
MIN: 4578.29 / MAX: 5056.79
4845.8
1100
2200
3300
4400
5500
Renaissance 0.14
Test: In-Memory Database Shootout
ms, Fewer Is Better
A
MIN: 5830.16 / MAX: 6662.9
6069.5
B
MIN: 5024.27 / MAX: 6026.59
5438.2
C
MIN: 4727.51 / MAX: 5761.89
5272.4
1300
2600
3900
5200
6500


Renaissance 0.14
Test: Akka Unbalanced Cobwebbed Tree
ms, Fewer Is Better
A
MIN: 10489.44 / MAX: 13512.95
13512.9
B
MIN: 10889.61
14272.8
C
MIN: 10965.22 / MAX: 14407.15
14407.1
3K
6K
9K
12K
15K
Renaissance 0.14
Test: Genetic Algorithm Using Jenetics + Futures
ms, Fewer Is Better
A
MIN: 5796.36 / MAX: 6004.22
5921.9
B
MIN: 4461.34 / MAX: 5574.45
5159.9
C
MIN: 3633.04 / MAX: 5939.33
5166.4
1300
2600
3900
5200
6500
Stress-NG 0.14
Test: MMAP
Bogo Ops/s, More Is Better
A
445.56
B
435.49
C
442.34
100
200
300
400
500
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

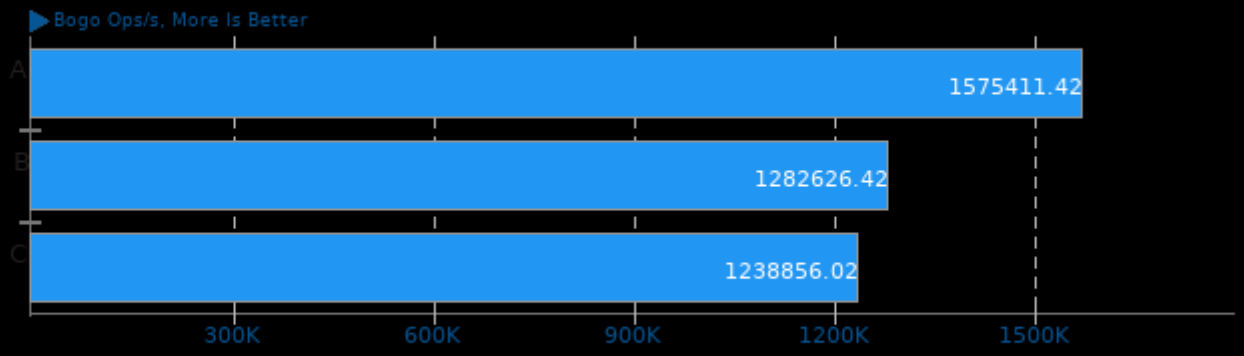
Test: NUMA



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

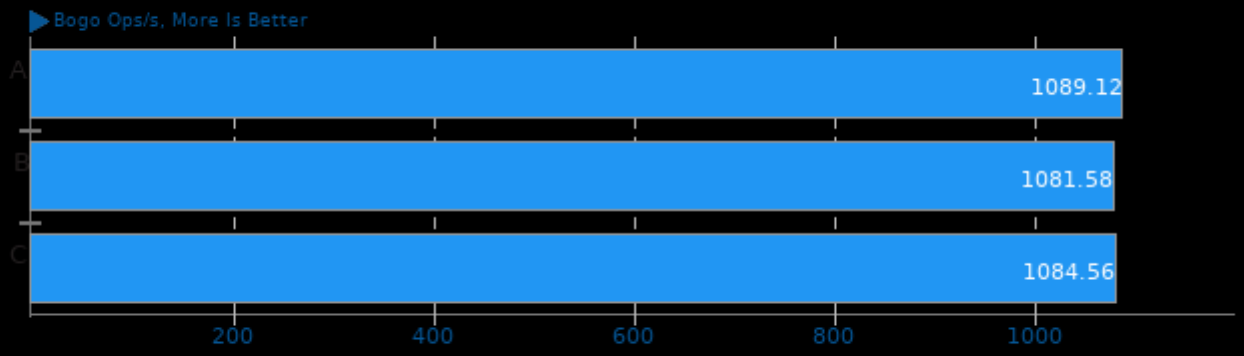
Test: Futex



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

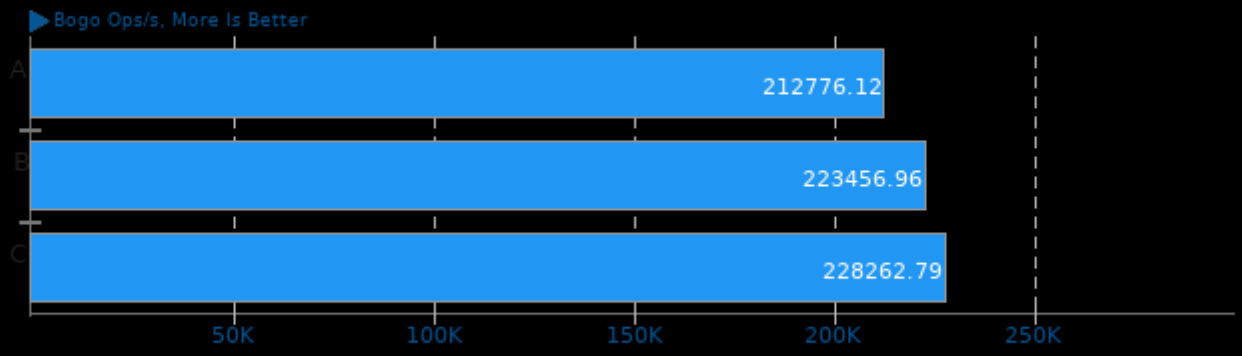
Test: MEMFD



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

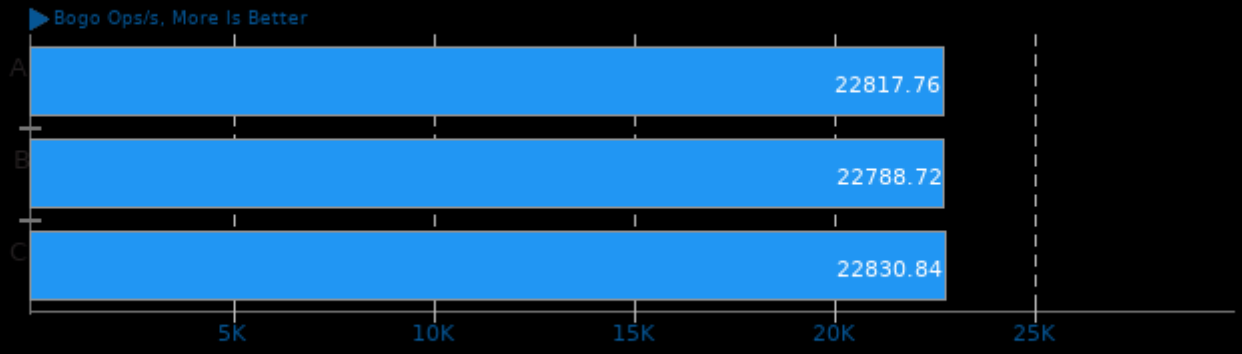
Test: Atomic



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

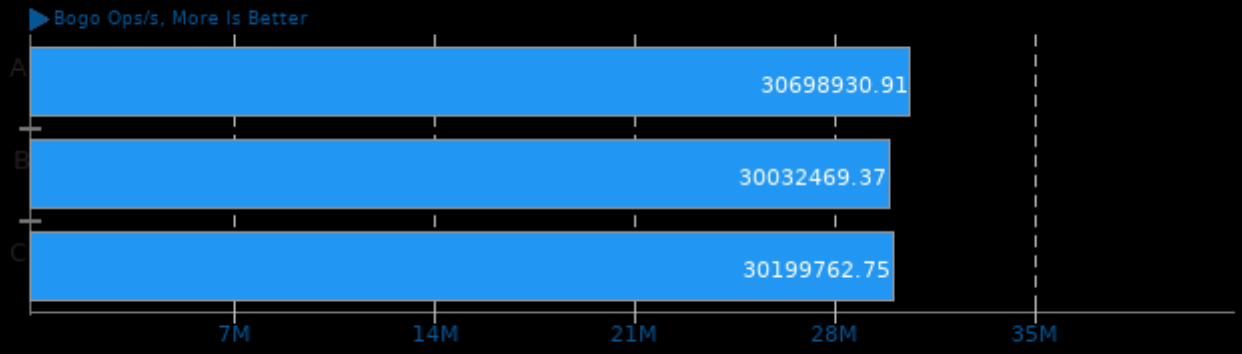
Test: Crypto



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

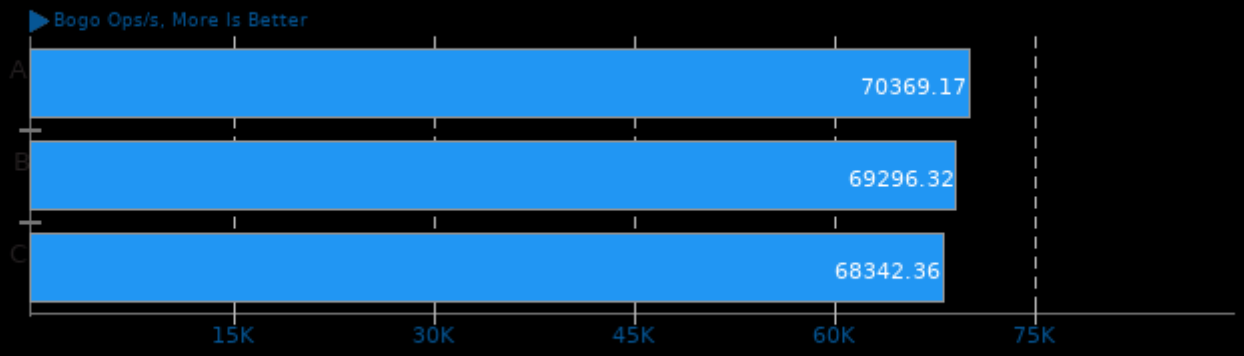
Test: Malloc



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

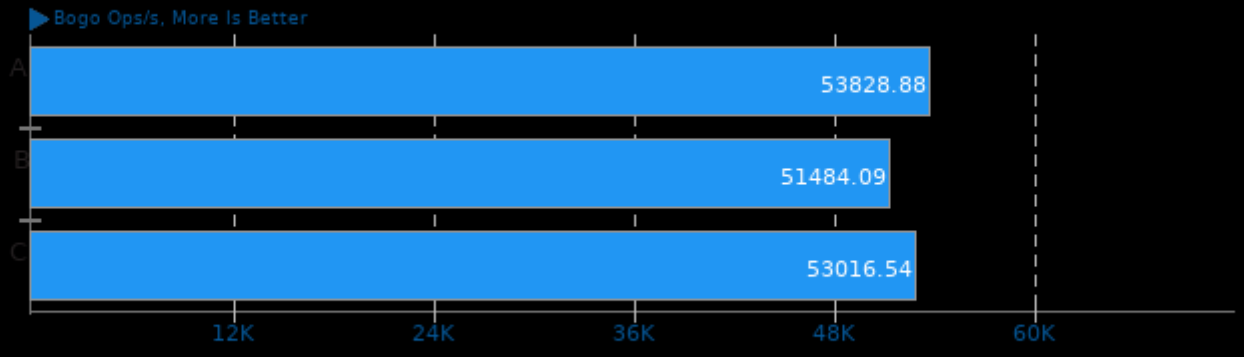
Test: Forking



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

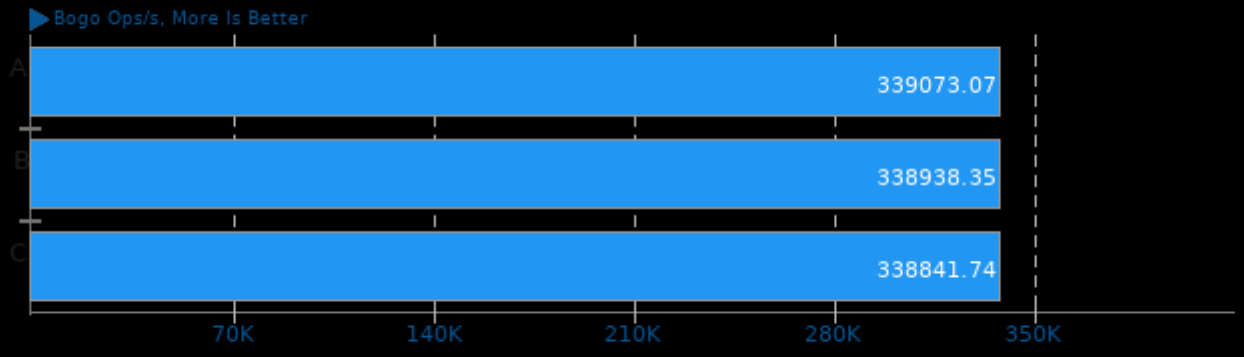
Test: IO_uring



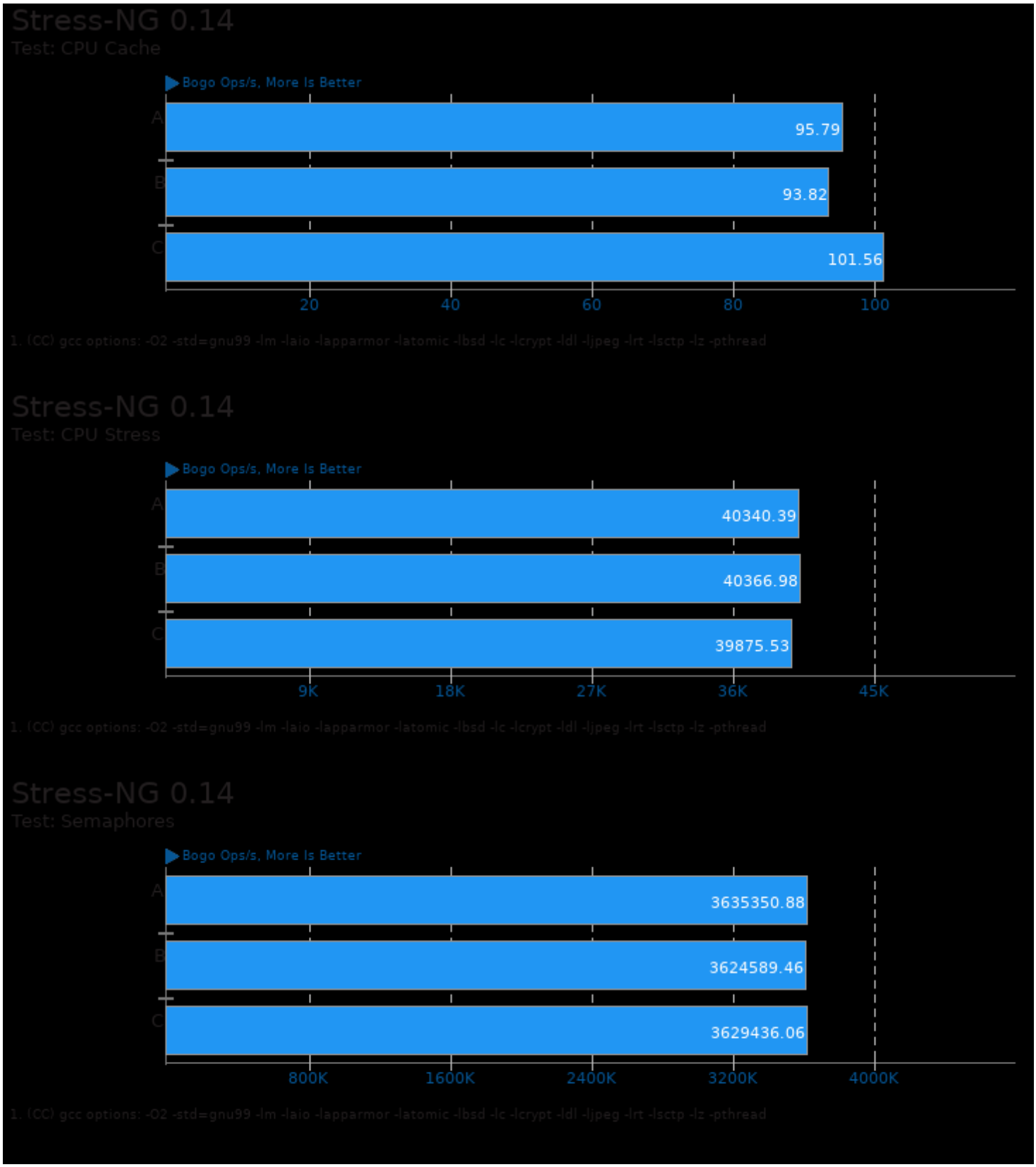
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

Test: SENDFILE

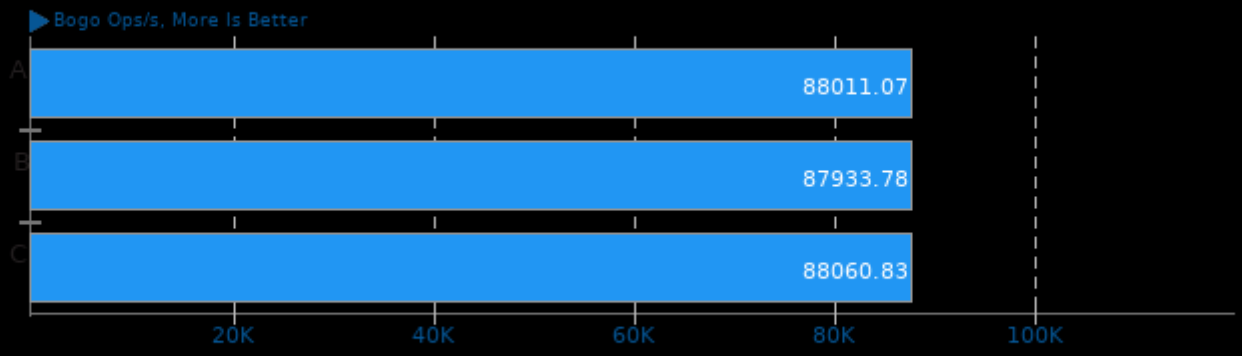


1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread


Stress-NG 0.14
Test: CPU Cache
Bogo Ops/s, More Is Better
A
B
C
95.79
93.82
101.56
20
40
60
80
100
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread
Stress-NG 0.14
Test: CPU Stress
Bogo Ops/s, More Is Better
A
B
C
40340.39
40366.98
39875.53
9K
18K
27K
36K
45K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread
Stress-NG 0.14
Test: Semaphores
Bogo Ops/s, More Is Better
A
B
C
3635350.88
3624589.46
3629436.06
800K
1600K
2400K
3200K
4000K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

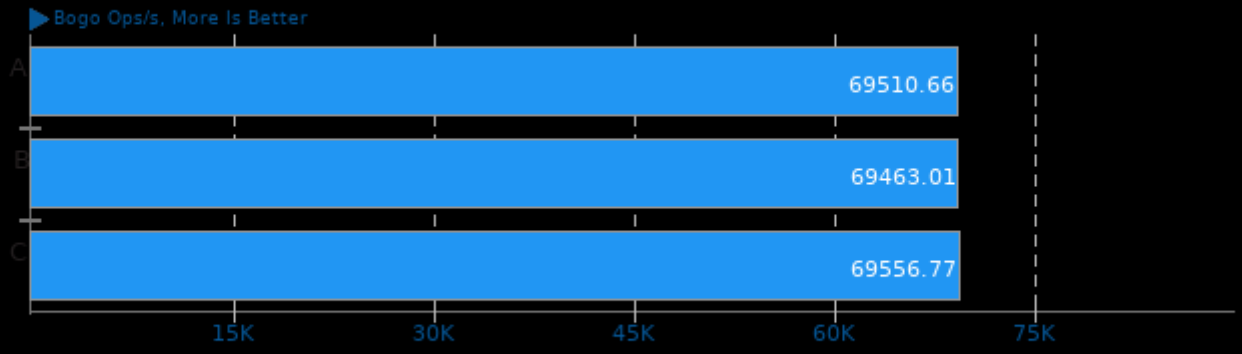
Test: Matrix Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14

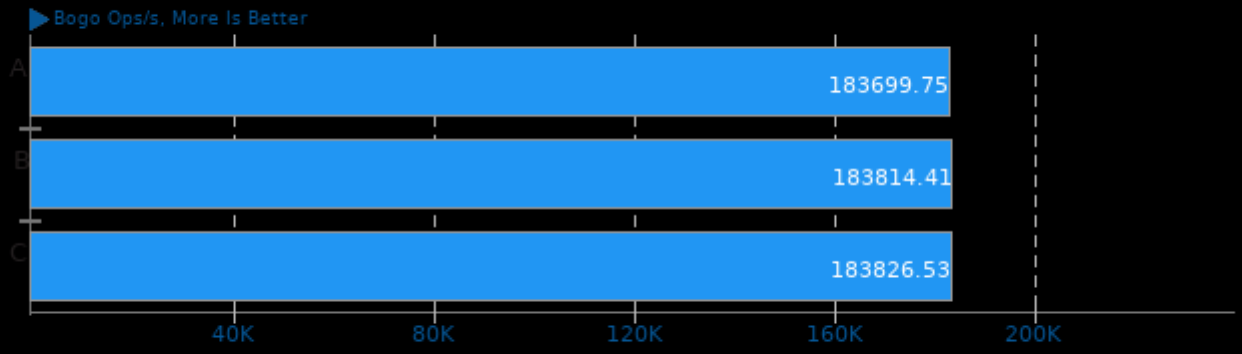
Test: Vector Math



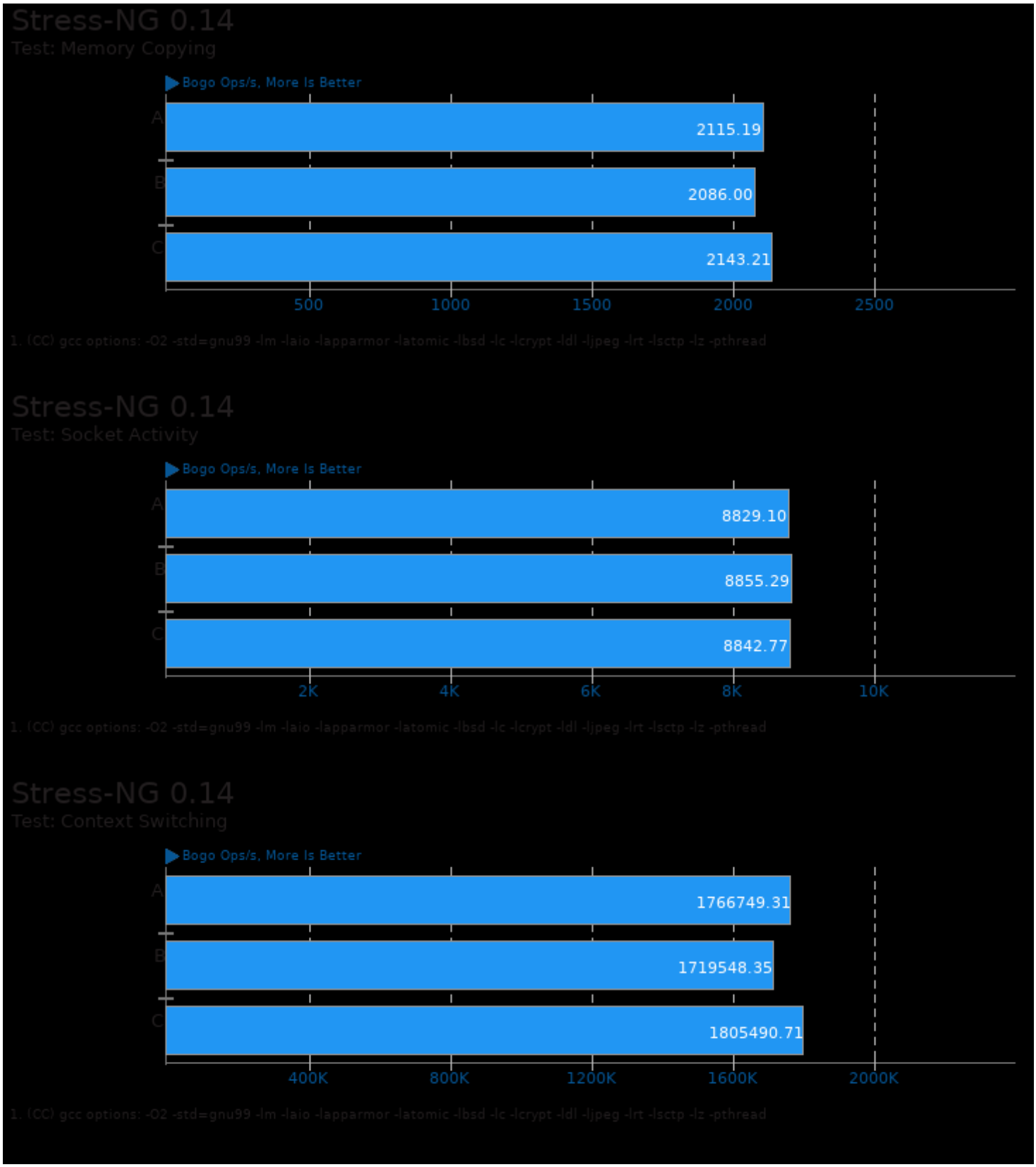
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

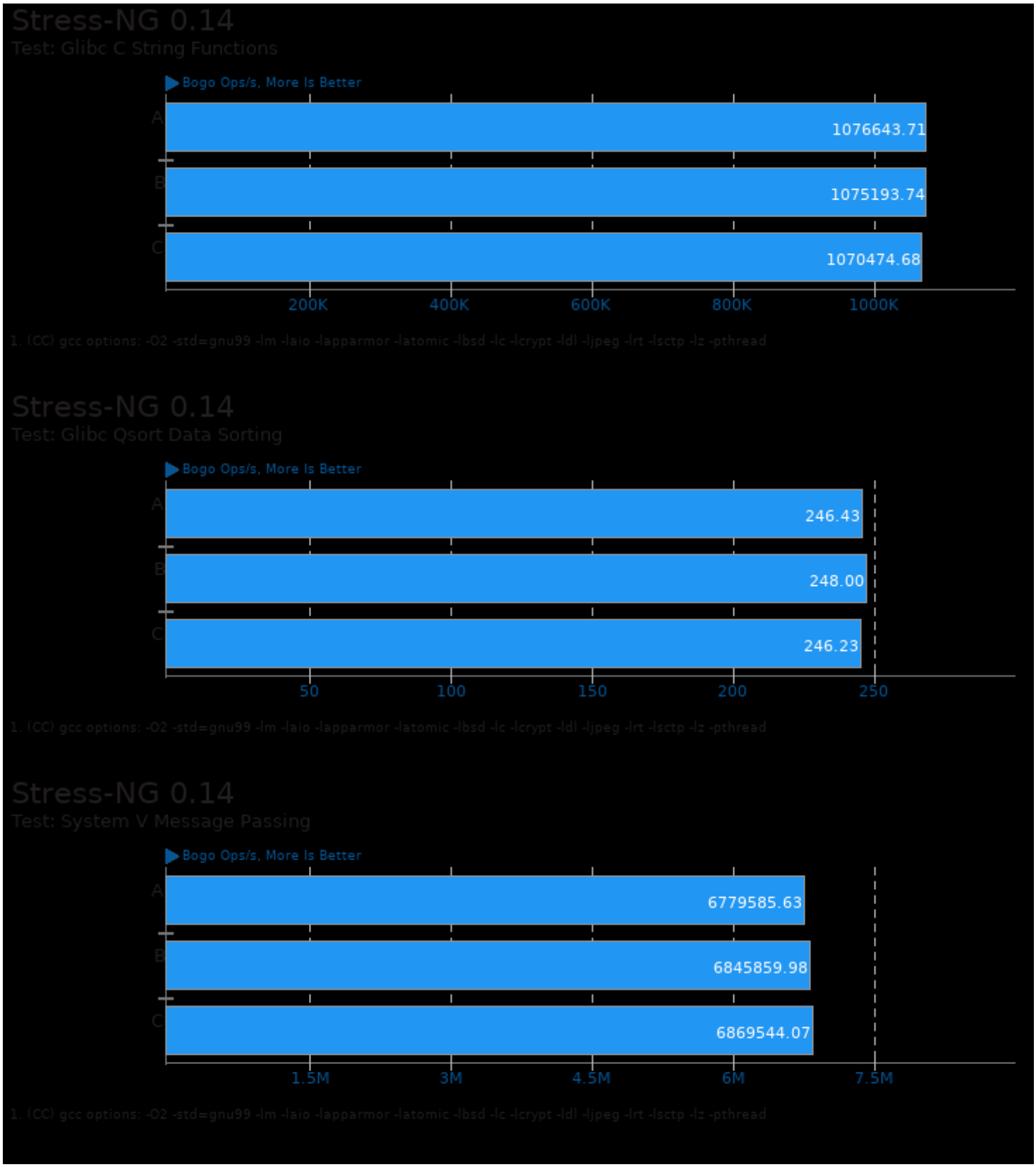
Stress-NG 0.14

Test: x86_64 RdRand

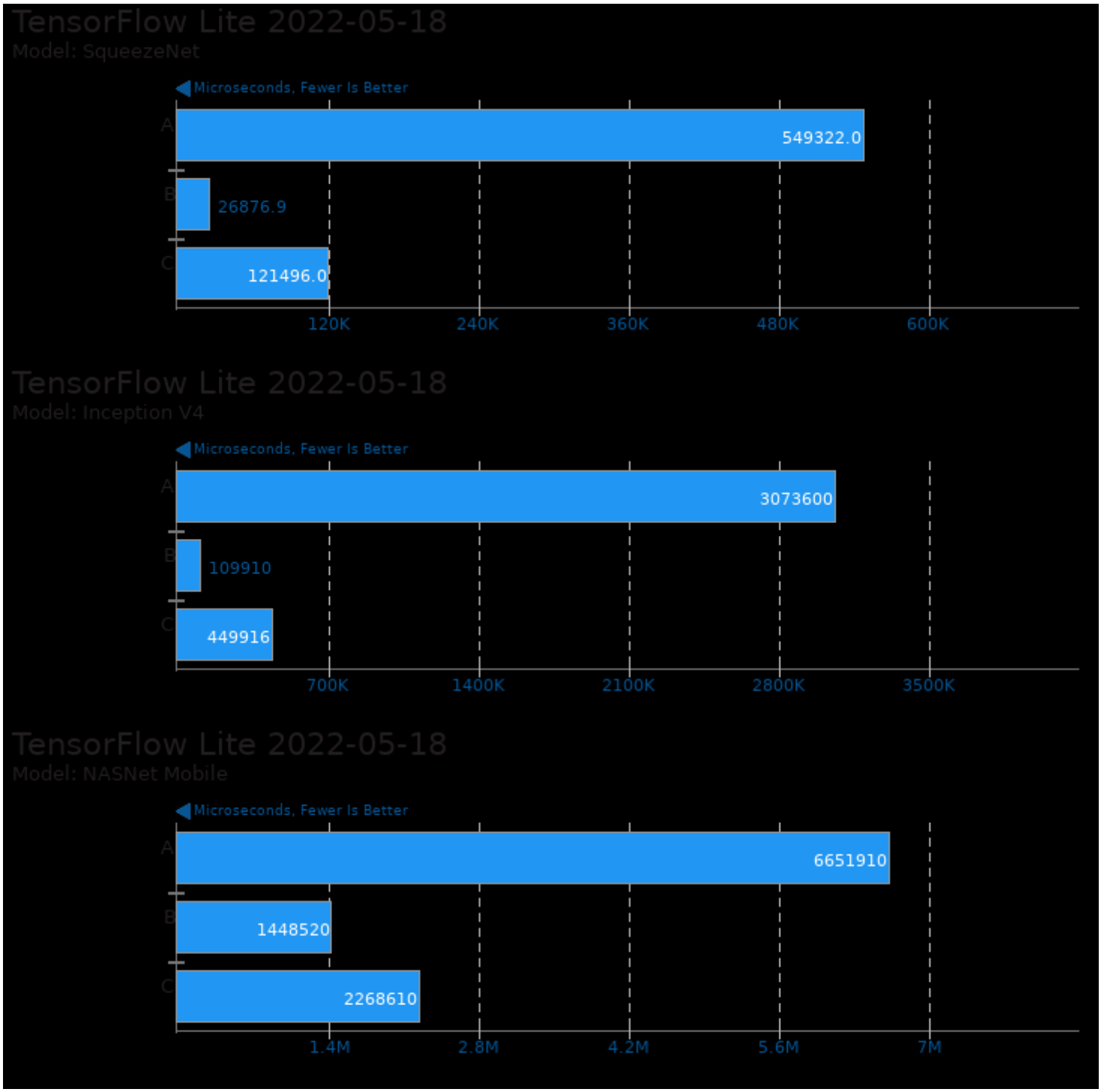


1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

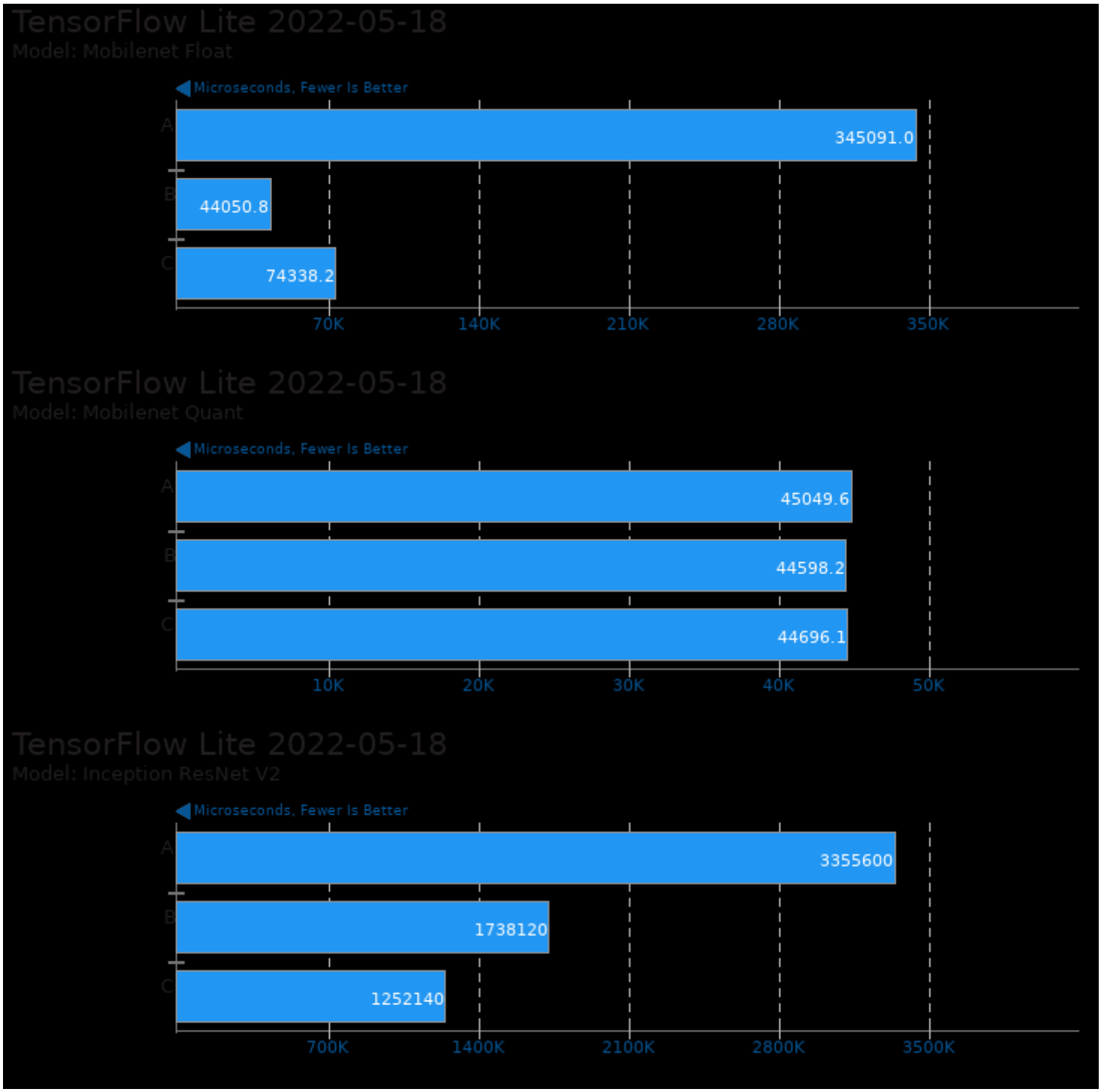

Stress-NG 0.14
Test: Memory Copying
Bogo Ops/s, More Is Better
A
2115.19
B
2086.00
C
2143.21
500
1000
1500
2000
2500
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread
Stress-NG 0.14
Test: Socket Activity
Bogo Ops/s, More Is Better
A
8829.10
B
8855.29
C
8842.77
2K
4K
6K
8K
10K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread
Stress-NG 0.14
Test: Context Switching
Bogo Ops/s, More Is Better
A
1766749.31
B
1719548.35
C
1805490.71
400K
800K
1200K
1600K
2000K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

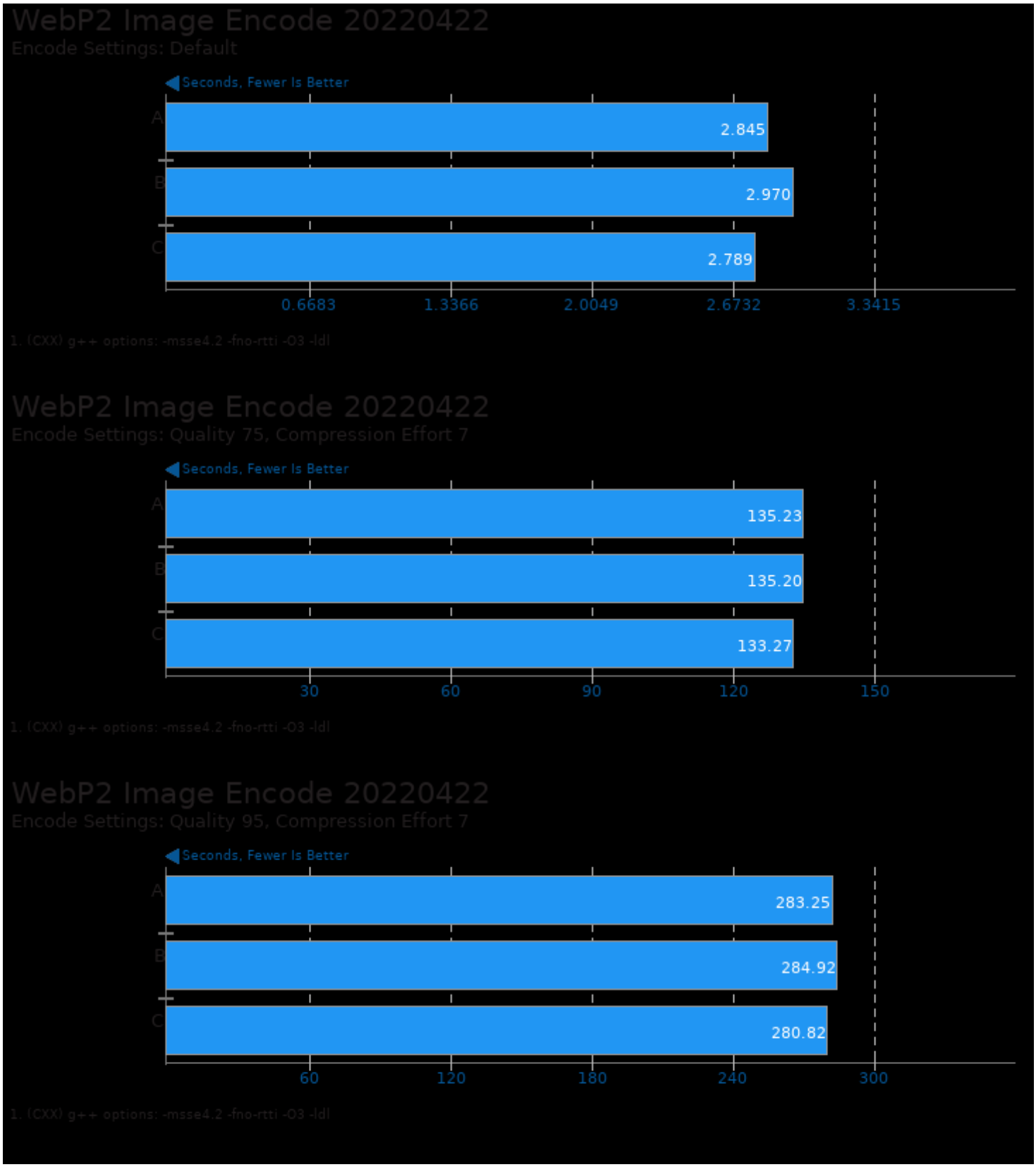

Stress-NG 0.14
Test: Glibc C String Functions
Bogo Ops/s, More Is Better
A
1076643.71
B
1075193.74
C
1070474.68
200K
400K
600K
800K
1000K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread
Stress-NG 0.14
Test: Glibc Qsort Data Sorting
Bogo Ops/s, More Is Better
A
246.43
B
248.00
C
246.23
50
100
150
200
250
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread
Stress-NG 0.14
Test: System V Message Passing
Bogo Ops/s, More Is Better
A
6779585.63
B
6845859.98
C
6869544.07
1.5M
3M
4.5M
6M
7.5M
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -ljpeg -lrt -lsctp -lz -pthread

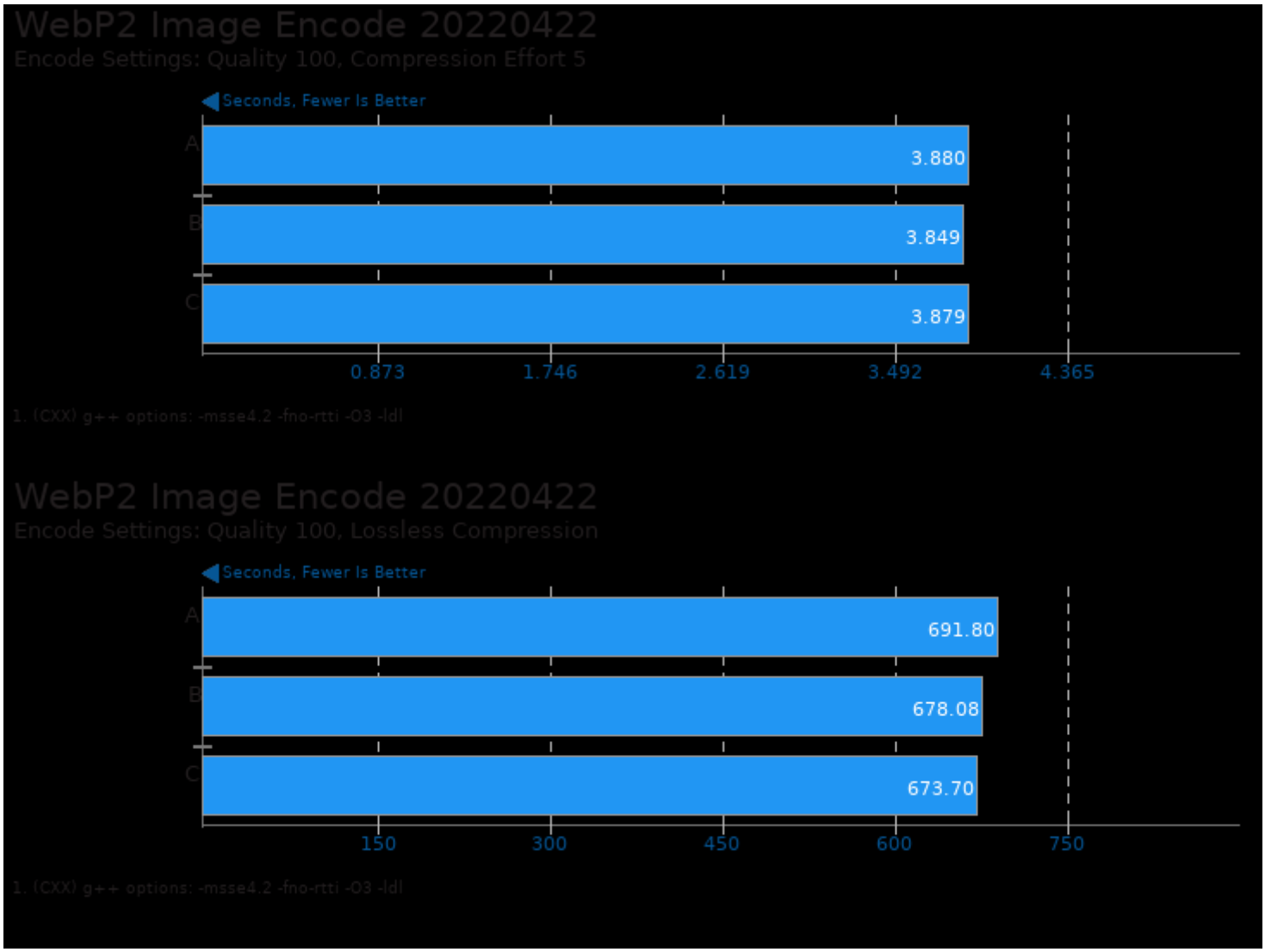
cascade may


TensorFlow Lite 2022-05-18
Model: SqueezeNet
Microseconds, Fewer Is Better
A
549322.0
B
26876.9
C
121496.0
120K
240K
360K
480K
600K
TensorFlow Lite 2022-05-18
Model: Inception V4
Microseconds, Fewer Is Better
A
3073600
B
109910
C
449916
700K
1400K
2100K
2800K
3500K
TensorFlow Lite 2022-05-18
Model: NASNet Mobile
Microseconds, Fewer Is Better
A
6651910
B
1448520
C
2268610
1.4M
2.8M
4.2M
5.6M
7M

cascade may


TensorFlow Lite 2022-05-18
Model: Mobilenet Float
Microseconds, Fewer Is Better
A
345091.0
B
44050.8
C
74338.2
70K
140K
210K
280K
350K
TensorFlow Lite 2022-05-18
Model: Mobilenet Quant
Microseconds, Fewer Is Better
A
45049.6
B
44598.2
C
44696.1
10K
20K
30K
40K
50K
TensorFlow Lite 2022-05-18
Model: Inception ResNet V2
Microseconds, Fewer Is Better
A
3355600
B
1738120
C
1252140
700K
1400K
2100K
2800K
3500K


WebP2 Image Encode 20220422
Encode Settings: Default
Seconds, Fewer Is Better
A
B
C
2.845
2.970
2.789
0.6683
1.3366
2.0049
2.6732
3.3415
1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -ldl
WebP2 Image Encode 20220422
Encode Settings: Quality 75, Compression Effort 7
Seconds, Fewer Is Better
A
B
C
135.23
135.20
133.27
30
60
90
120
150
1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -ldl
WebP2 Image Encode 20220422
Encode Settings: Quality 95, Compression Effort 7
Seconds, Fewer Is Better
A
B
C
283.25
284.92
280.82
60
120
180
240
300
1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -ldl

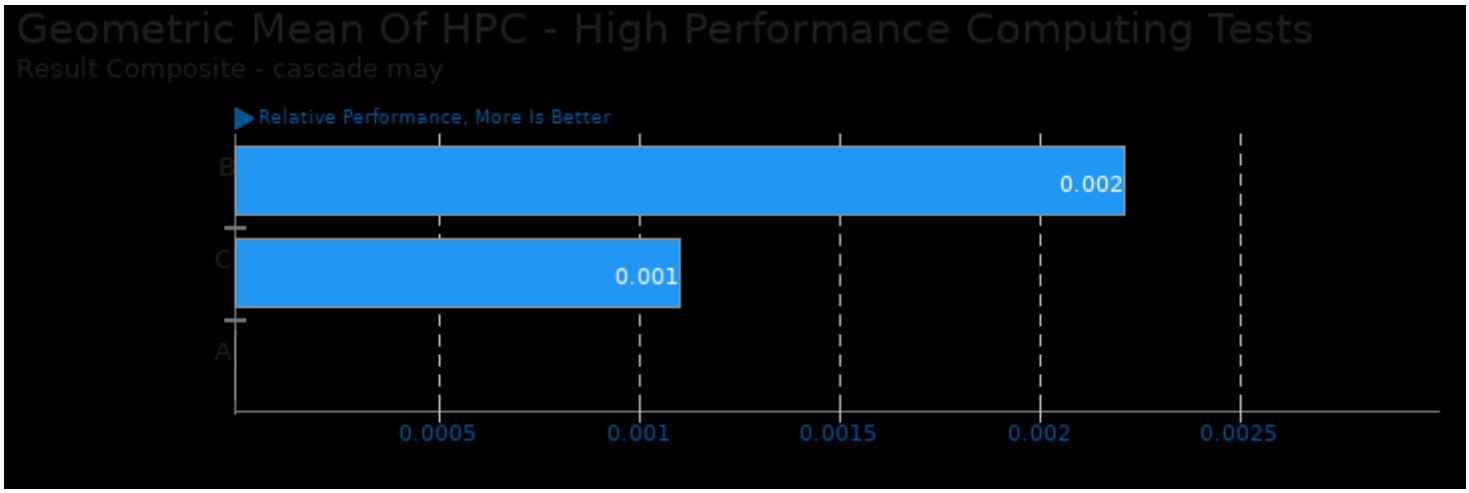

WebP2 Image Encode 20220422
Encode Settings: Quality 100, Compression Effort 5
Seconds, Fewer Is Better
A
B
C
3.880
3.849
3.879
0.873
1.746
2.619
3.492
4.365
1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -ldl
WebP2 Image Encode 20220422
Encode Settings: Quality 100, Lossless Compression
Seconds, Fewer Is Better
A
B
C
691.80
678.08
673.70
150
300
450
600
750
1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -ldl

cascade may

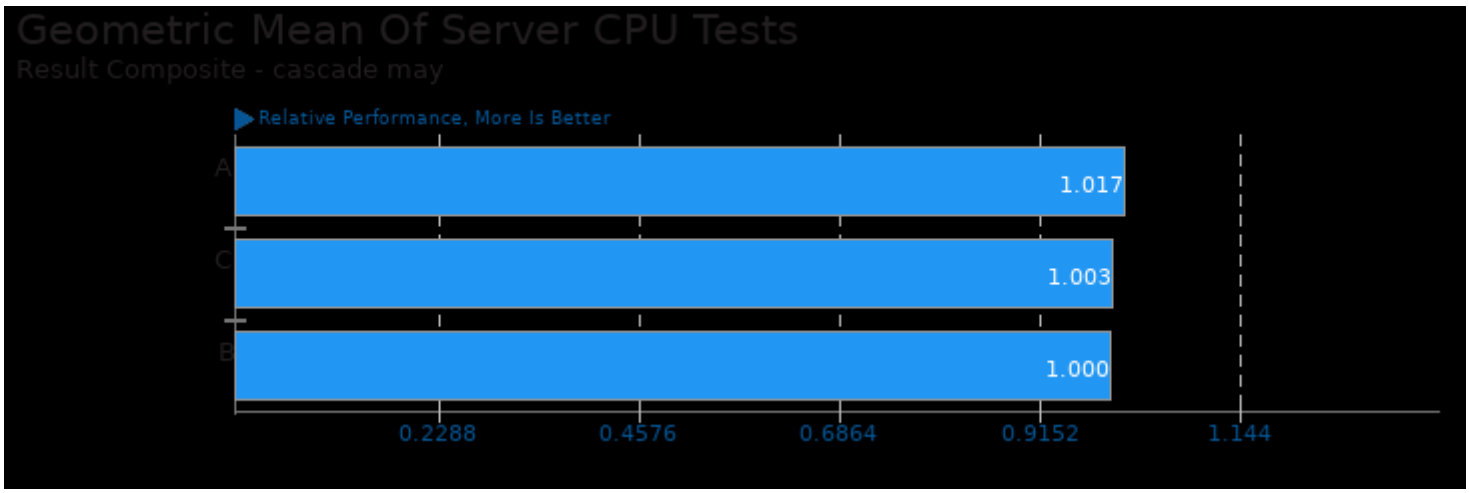
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/glibc-bench, pts/stress-ng and pts/renaissance



Geometric mean based upon tests: pts/gromacs and pts/tensorflow-lite



Geometric mean based upon tests: pts/renaissance, pts/glibc-bench and pts/stress-ng

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 21:07.