

www.phoronix-test-suite.com

720_R32_4_4

ARMv8 rev 0 testing with a Jetson-AGX and NVIDIA Tegra Xavier on Ubuntu 18.04 via the Phoronix Test Suite.

Test Systems:

eMMC

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA TEGRA, Monitor: PHL 247E6, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Disk Notes: CFQ / data=ordered,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

USB 3.0_inno

USB 2.0

SD Card innodisk

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA TEGRA, Monitor: PHL 247E6, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Disk Notes: CFQ / data=ordered,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

mSATA

Typec C

LPDDR4

CPU Stress

CUDA Nbody

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 63GB M.2 (S80) 3MG2-P + 62GB Ultra USB 3.0 + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: PHL 247E6, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

Graphics Test

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 63GB M.2 (S80) 3MG2-P + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: B287K, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: always
Processor Notes: Scaling Governor: tegra_cpufreq schedutil
Python Notes: Python 2.7.17 + Python 3.6.9

M.2 M SSD

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 256GB PLEXTOR PX-256M9PeGN + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: B287K, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Disk Notes: none / data=ordered,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

LAN 1

LAN 1 run 2

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: B287K, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

LAN 1 run 3

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 31GB HBG4a2, Graphics: NVIDIA Tegra Xavier, Monitor: EDIIG0219, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

LAN 2

LAN 3

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA Tegra Xavier, Monitor: EDIIG0219, Network: 2 x Intel I210

720_R32_4_4

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

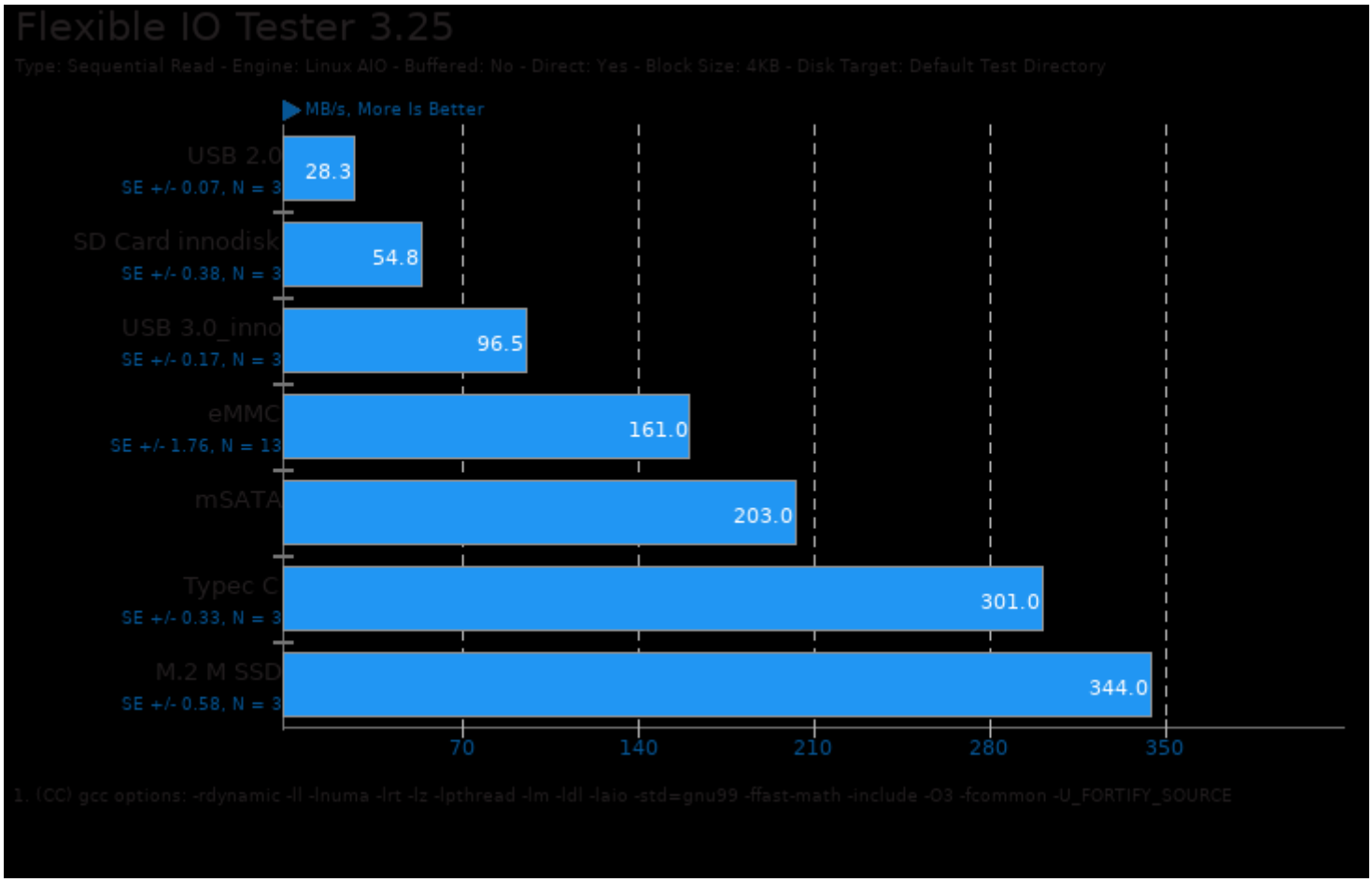
	eMMC	USB 3.0_inno	USB 2.0	SD Card innodisk	mSATA	Type c C	LPDDR4	CPU Stress	CUDA Nbody	Graphics Test	M.2 MSSD	LAN 1	LAN 1 run 2	LAN 1 run 3	LAN 2	LAN 3
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	161	96.5	**28.3**	54.8	203	301					**344**					
Normalized	46.8%	28.05%	8.23%	15.93%	59.01%	87.5%					100%					
Standard Deviation	4%	0.3%	0.4%	1.2%		0.2%					0.3%					
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	41231	24700	**7243**	14100	51900	77200					**88067**					
Normalized	46.82%	28.05%	8.22%	16.01%	58.93%	87.66%					100%					
Standard Deviation	3.9%	0.4%	0.4%			0.2%					0.3%					
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (MB/s)	302	121	**52.7**	102	427	816					**1973**					
Normalized	15.31%	6.13%	2.67%	5.17%	21.64%	41.36%					100%					
Standard Deviation	2.4%		1.3%			0.1%					15.2%					

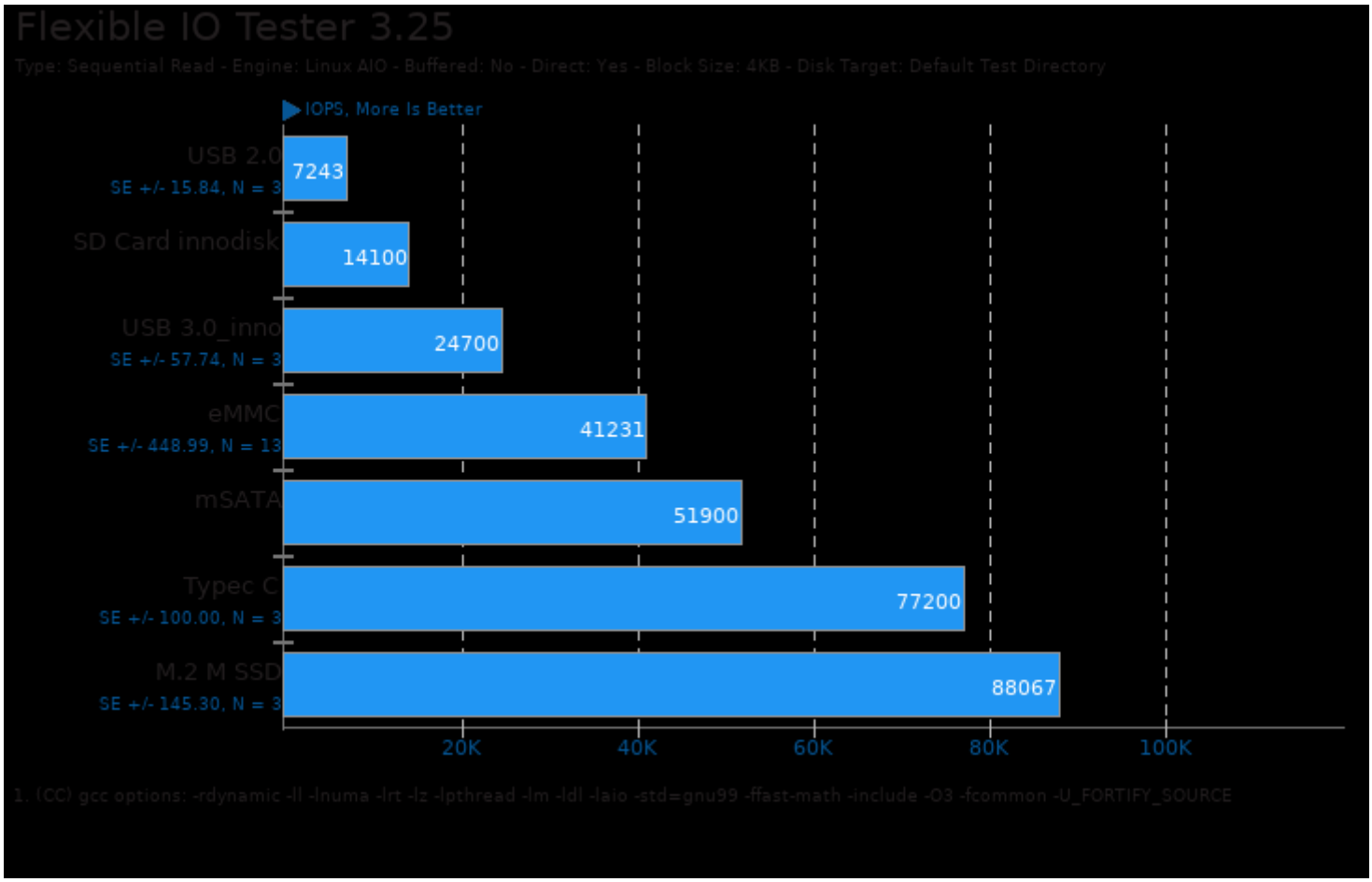
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (IOPS)	34	12	**3**	9	50	98			**243**
Normalized	13.99%	4.94%	1.23%	3.7%	20.58%	40.33%			100%
Standard Deviation	3.3%								15.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	94.0	24.3	24.9	**23.1**	84.4	**255**			246
Normalized	36.86%	9.53%	9.76%	9.06%	33.1%	100%			96.47%
Standard Deviation	2.1%	2.9%	1%	3.8%	0.1%	0.8%			4.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	24133	6219	6362	**5911**	21600	**65300**			62960
Normalized	36.96%	9.52%	9.74%	9.05%	33.08%	100%			96.42%
Standard Deviation	1.5%	2.9%	1.1%	3.8%		0.9%			4.6%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (MB/s)	135	**38.3**	48.8	65.9	103	**285**			**285**
Normalized	47.37%	13.44%	17.12%	23.12%	36.14%	100%			100%
Standard Deviation	1.1%	2.3%	0.8%	1.2%		0.4%			0.5%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (IOPS)	13	**2**	3	5	9	**32**			**32**
Normalized	40.63%	6.25%	9.38%	15.63%	28.13%	100%			100%
Standard Deviation	4.3%								
Stream - Copy (MB/s)							70439		
Standard Deviation							0.8%		

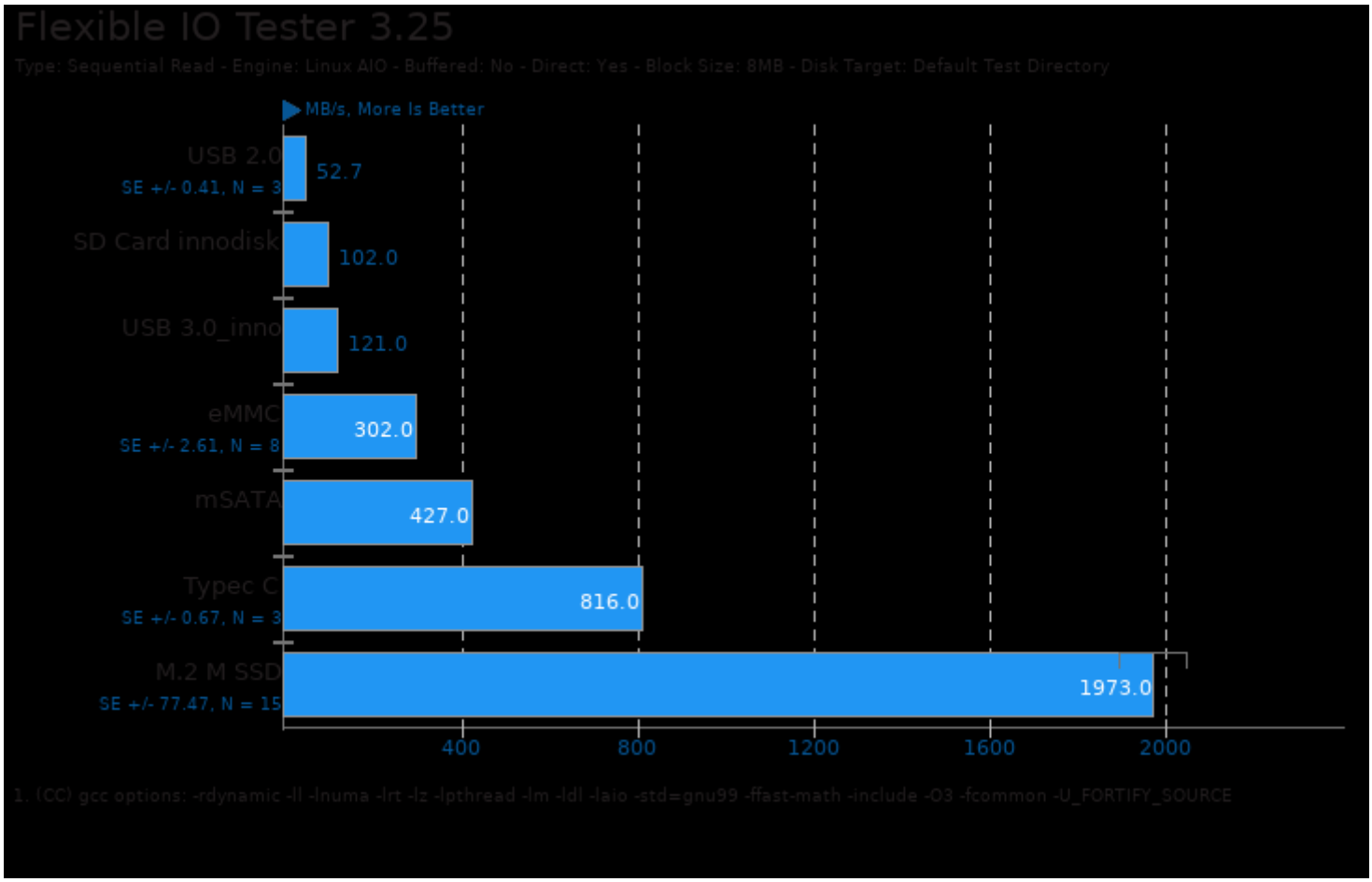
Stream - Scale (MB/s)	70831			
Standard Deviation	0.8%			
Stream - Triad (MB/s)	63301			
Standard Deviation	0.6%			
Stream - Add (MB/s)	62395			
Standard Deviation	0.7%			
Stress-NG - Crypto (Bogo Ops/s)		1192		
Standard Deviation		1.1%		
Stress-NG - Forking (Bogo Ops/s)		6418		
Standard Deviation		0.9%		
Stress-NG - CPU Stress (Bogo Ops/s)		904.97		
Standard Deviation		2.4%		
Stress-NG - Matrix Math (Bogo Ops/s)		12435		
Standard Deviation		0.1%		
Stress-NG - Vector Math (Bogo Ops/s)		49101		
Standard Deviation		0.4%		
Stress-NG - Memory Copying (Bogo Ops/s)		3232		
Standard Deviation		0.6%		
Stress-NG - G.C.S.F (Bogo Ops/s)		24431.4		
Standard Deviation		2.9%		

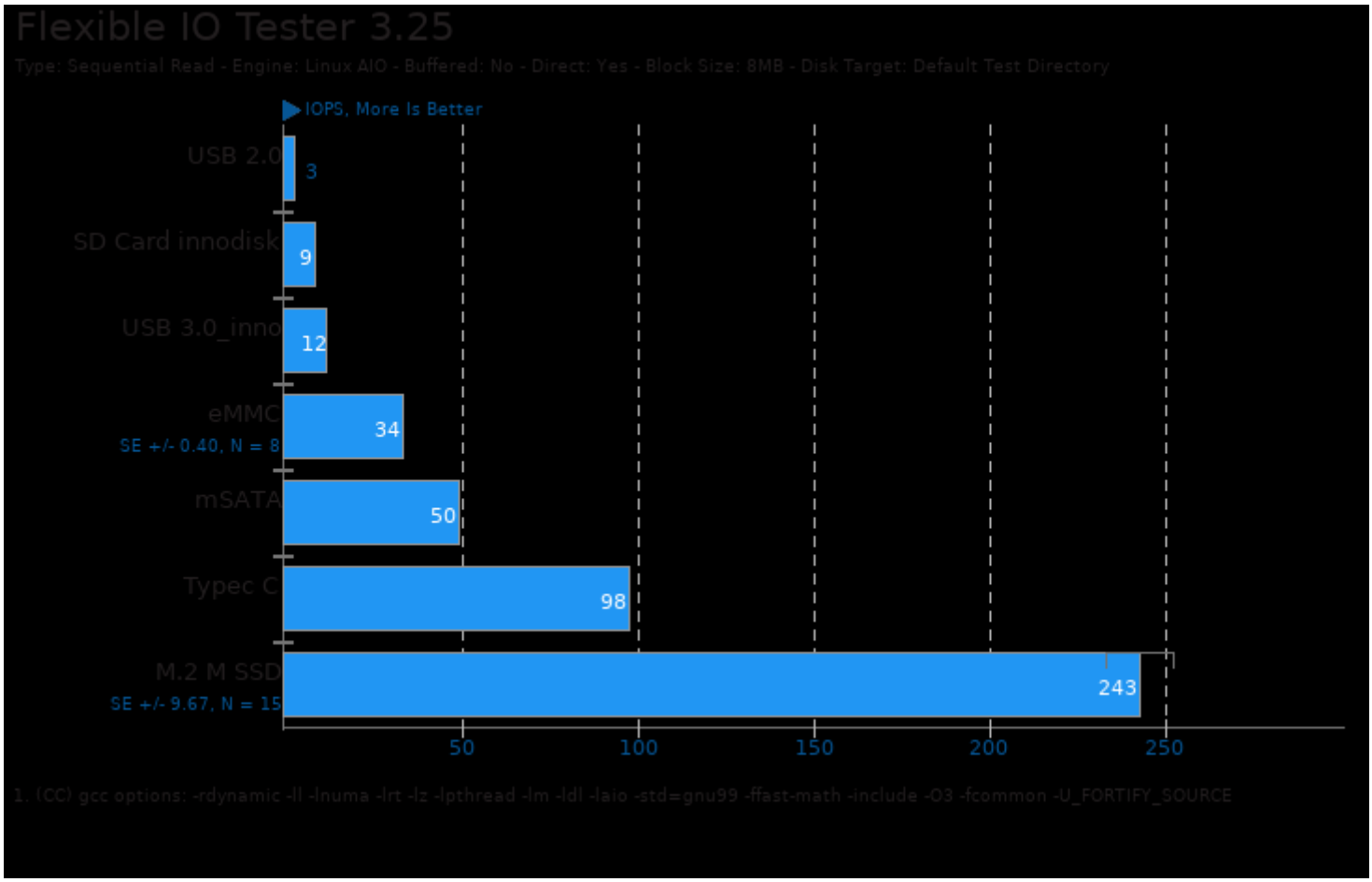
Stress-NG - G.Q.D.S (Bogo Ops/s)	37.99			
Standard Deviation	10.2%			
CUDA Mini-Nbody - Original ((NBody^2)/s		51.53		
Standard Deviation		0.1%		
CUDA Mini-Nbody - Cache Blocking ((NBody^2)/s		53.29		
Standard Deviation		0%		
CUDA Mini-Nbody - Loop Unrolling ((NBody^2)/s		53.36		
Standard Deviation		0%		
CUDA Mini-Nbody - SOA Data Layout ((NBody^2)/s		53.00		
Standard Deviation		0.2%		
CUDA Mini-Nbody - F.D.T.Z ((NBody^2)/s		53.23		
Standard Deviation		0.2%		
GLmark2 - 800 x 600 (Score)			6638	
GLmark2 - 1024 x 768 (Score)			5177	
GLmark2 - 1280 x 1024 (Score)			3732	

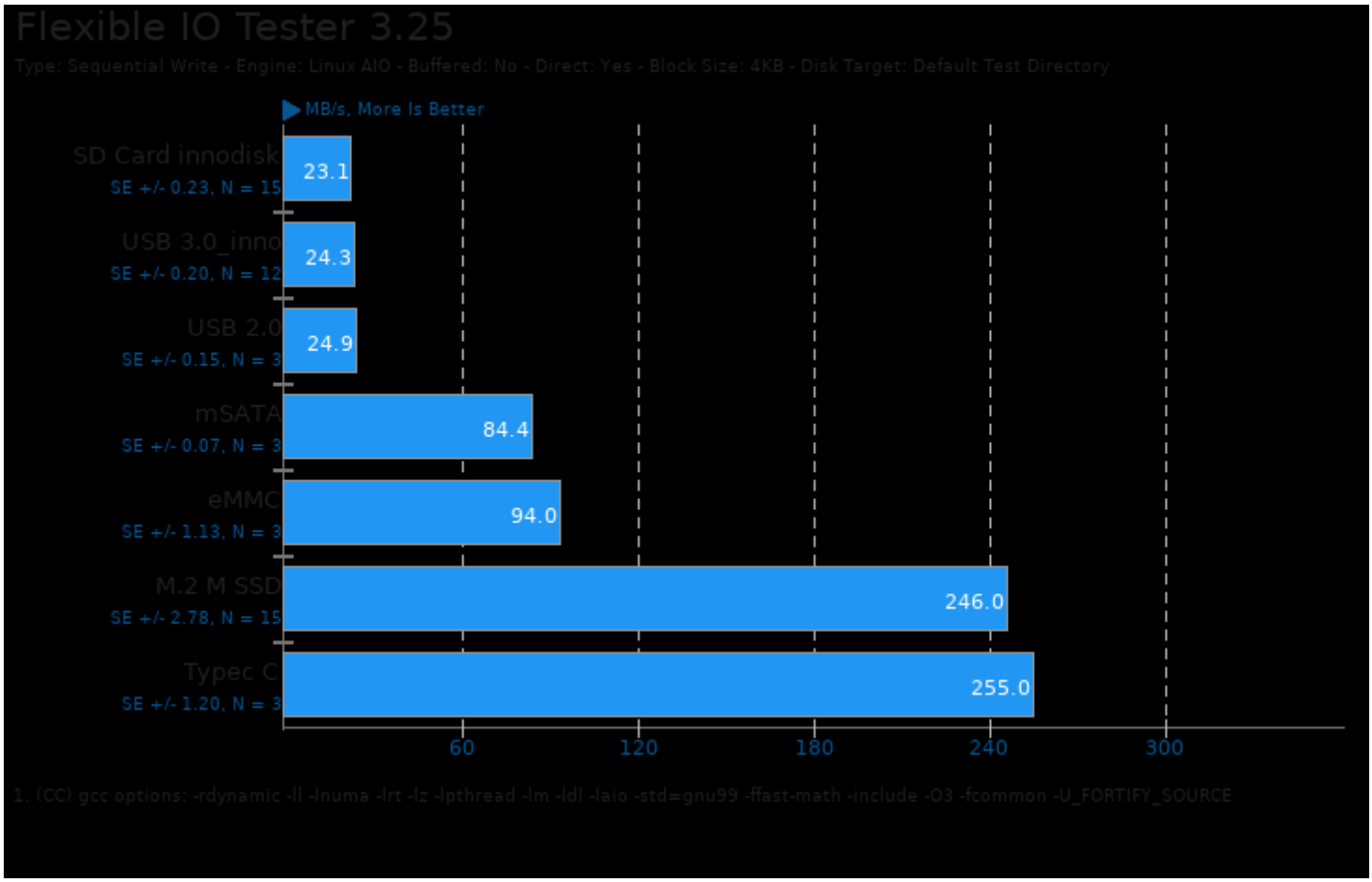
GLmark2 - 1600 x 1200 (Score)	2952				
GLmark2 - 1920 x 1080 (Score)	2716				
GLmark2 - 1920 x 1200 (Score)	2378				
GLmark2 - 2560 x 1440 (Score)	1639				
GLmark2 - 3840 x 2160 (Score)	832				
iPerf - 192.168.1.5 - 5201 - 10 Seconds - UDP - 100Mbit Objective - 1 (Mbits/s)		**95.7**	**100**	**100**	**100**
Normalized		95.7%	100%	100%	100%
Standard Deviation		0%			
iPerf - 192.168.1.5 - 5201 - 10 Seconds - UDP - 1000Mbit Objective - 1 (Mbits/s)		**95.7**	**95.7**	949	**956**	**956**
Normalized		10.01%	10.01%	99.27%	100%	100%
Standard Deviation		0%	0%	0.2%		

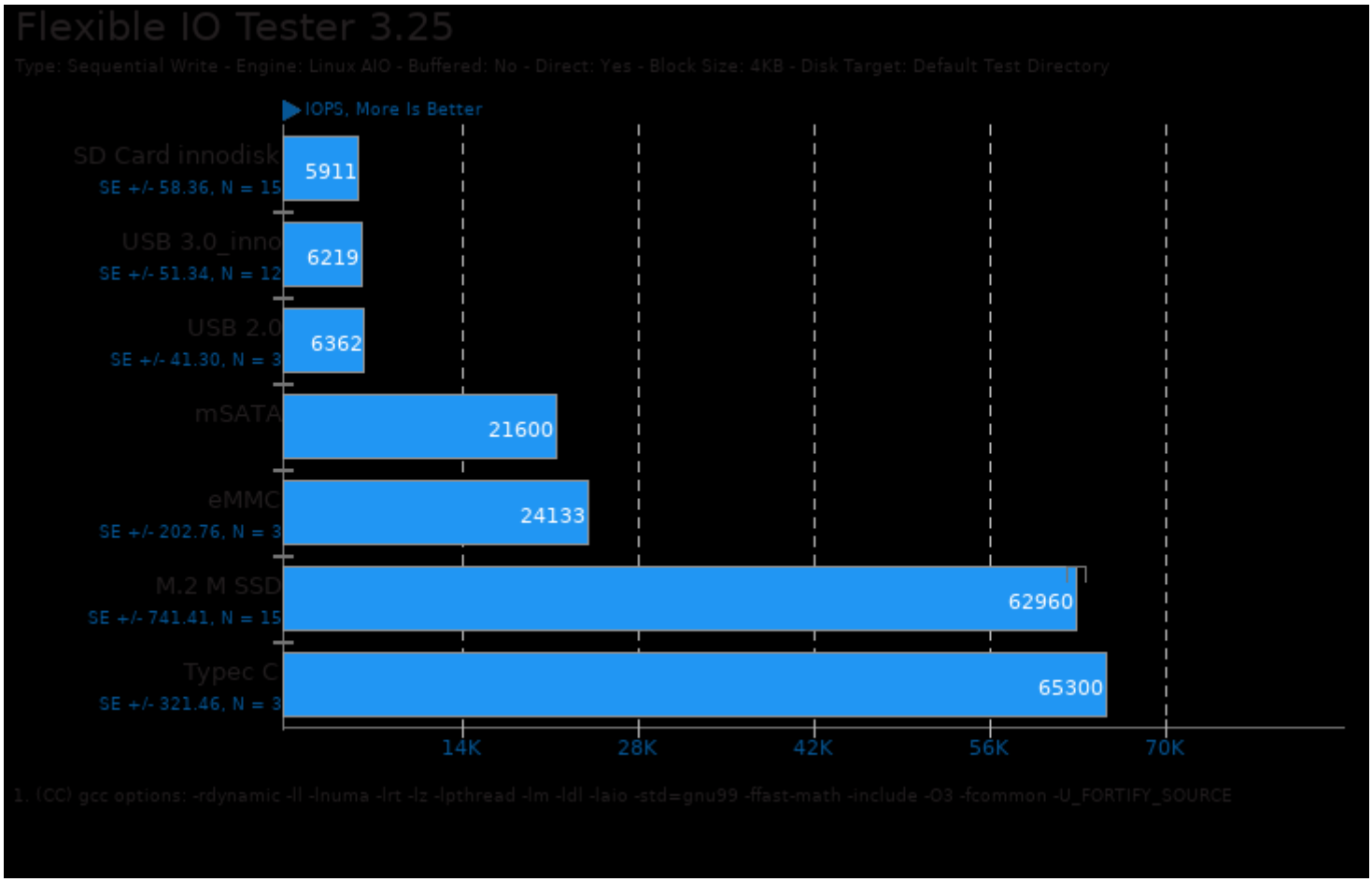

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
USB 2.0
SE +/- 0.07, N = 3
28.3
SD Card innodisk
SE +/- 0.38, N = 3
54.8
USB 3.0_inno
SE +/- 0.17, N = 3
96.5
eMMC
SE +/- 1.76, N = 13
161.0
mSATA
203.0
Typec C
SE +/- 0.33, N = 3
301.0
M.2 M SSD
SE +/- 0.58, N = 3
344.0
70
140
210
280
350
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

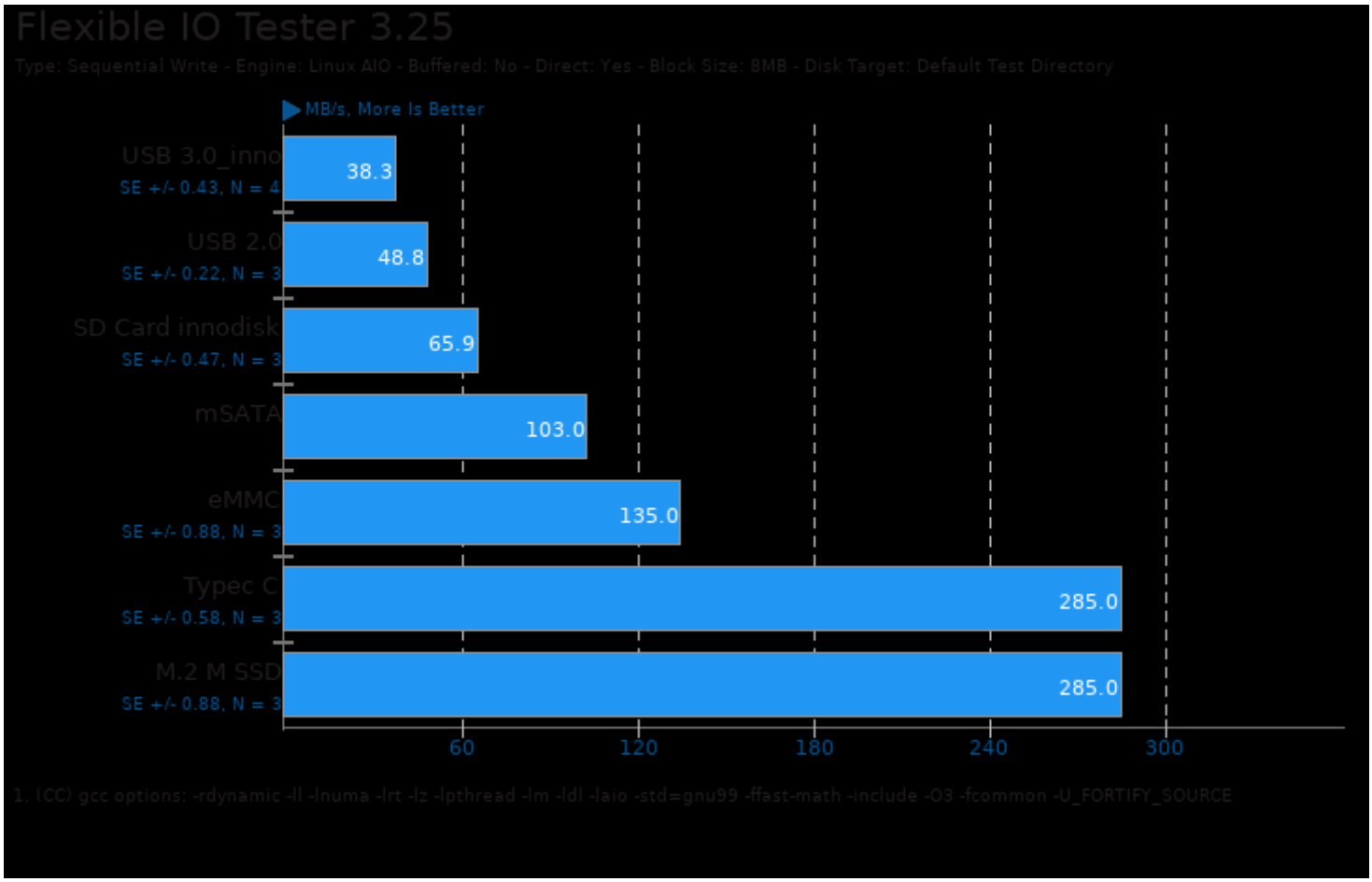

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
USB 2.0
SE +/- 15.84, N = 3
7243
SD Card innodisk
14100
USB 3.0_inno
SE +/- 57.74, N = 3
24700
eMMC
SE +/- 448.99, N = 13
41231
mSATA
51900
Typec C
SE +/- 100.00, N = 3
77200
M.2 M SSD
SE +/- 145.30, N = 3
88067
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

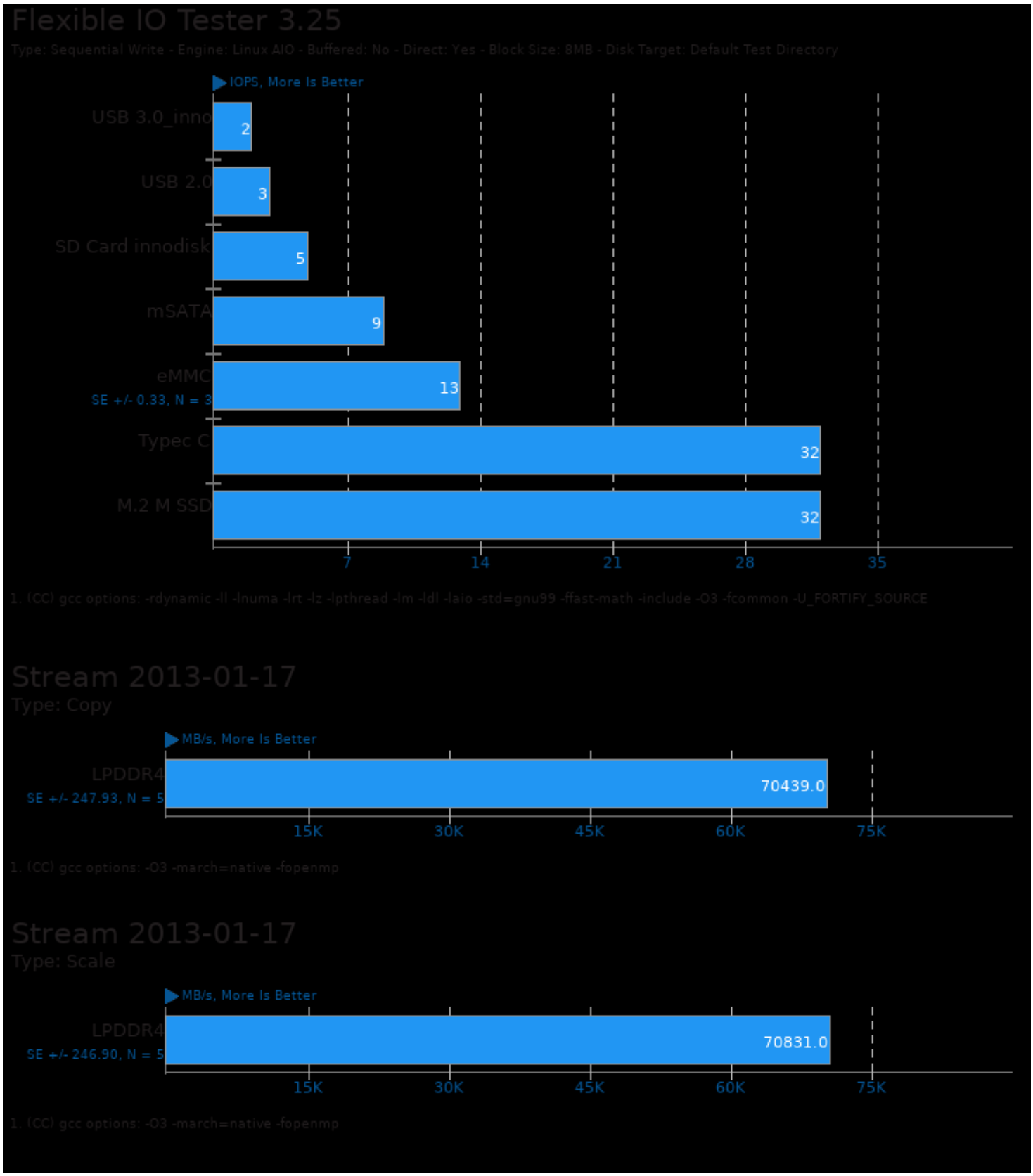

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
USB 2.0
SE +/- 0.41, N = 3
52.7
SD Card innodisk
102.0
USB 3.0_inno
121.0
eMMC
SE +/- 2.61, N = 8
302.0
mSATA
427.0
Typec C
SE +/- 0.67, N = 3
816.0
M.2 M SSD
SE +/- 77.47, N = 15
1973.0
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE


Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
USB 2.0
3
SD Card innodisk
9
USB 3.0_inno
12
eMMC
34
SE +/- 0.40, N = 8
mSATA
50
Typec C
98
M.2 M SSD
243
SE +/- 9.67, N = 15
50
100
150
200
250
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE


Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
SD Card innodisk
SE +/- 0.23, N = 15
23.1
USB 3.0_inno
SE +/- 0.20, N = 12
24.3
USB 2.0
SE +/- 0.15, N = 3
24.9
mSATA
SE +/- 0.07, N = 3
84.4
eMMC
SE +/- 1.13, N = 3
94.0
M.2 M SSD
SE +/- 2.78, N = 15
246.0
Typec C
SE +/- 1.20, N = 3
255.0
60
120
180
240
300
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

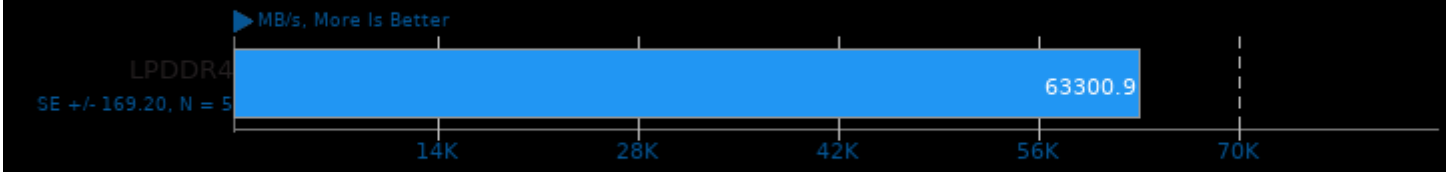

Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
SD Card innodisk
SE +/- 58.36, N = 15
5911
USB 3.0_inno
SE +/- 51.34, N = 12
6219
USB 2.0
SE +/- 41.30, N = 3
6362
mSATA
21600
eMMC
SE +/- 202.76, N = 3
24133
M.2 M SSD
SE +/- 741.41, N = 15
62960
Typec C
SE +/- 321.46, N = 3
65300
14K
28K
42K
56K
70K
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE


Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
USB 3.0_inno
SE +/- 0.43, N = 4
38.3
USB 2.0
SE +/- 0.22, N = 3
48.8
SD Card innodisk
SE +/- 0.47, N = 3
65.9
mSATA
103.0
eMMC
SE +/- 0.88, N = 3
135.0
Typec C
SE +/- 0.58, N = 3
285.0
M.2 M SSD
SE +/- 0.88, N = 3
285.0
60
120
180
240
300
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE


Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
USB 3.0_inno
2
USB 2.0
3
SD Card innodisk
5
mSATA
9
eMMC
13
SE +/- 0.33, N = 3
Typec C
32
M.2 M SSD
32
7
14
21
28
35
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Stream 2013-01-17
Type: Copy
MB/s, More Is Better
LPDDR4
70439.0
SE +/- 247.93, N = 5
15K
30K
45K
60K
75K
1. (CC) gcc options: -O3 -march=native -fopenmp
Stream 2013-01-17
Type: Scale
MB/s, More Is Better
LPDDR4
70831.0
SE +/- 246.90, N = 5
15K
30K
45K
60K
75K
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17

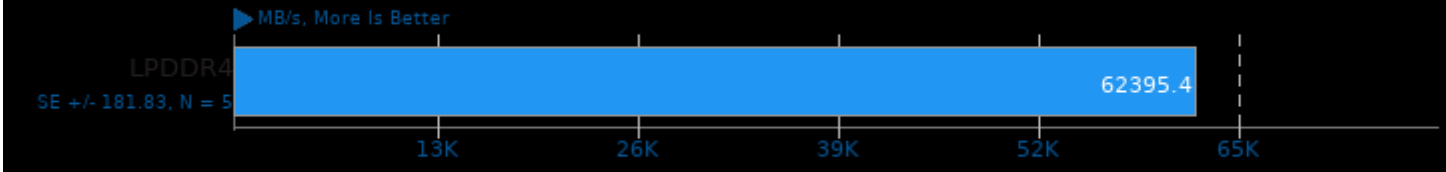
Type: Triad



1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17

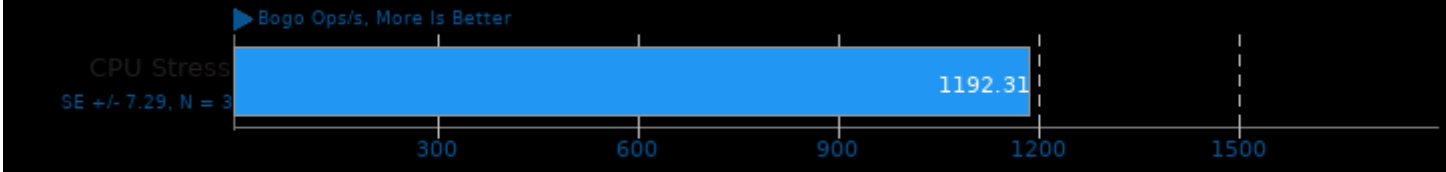
Type: Add



1. (CC) gcc options: -O3 -march=native -fopenmp

Stress-NG 0.11.07

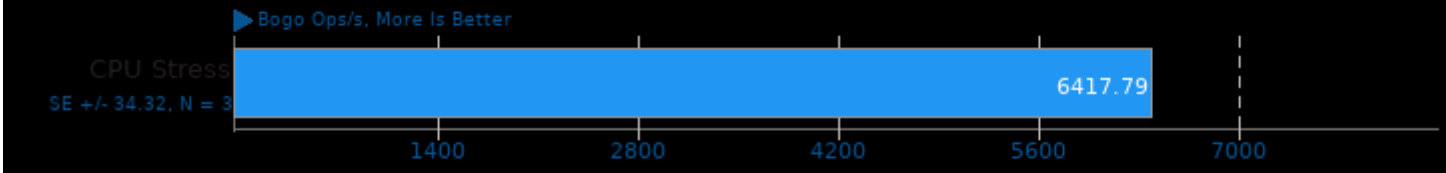
Test: Crypto



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

Stress-NG 0.11.07

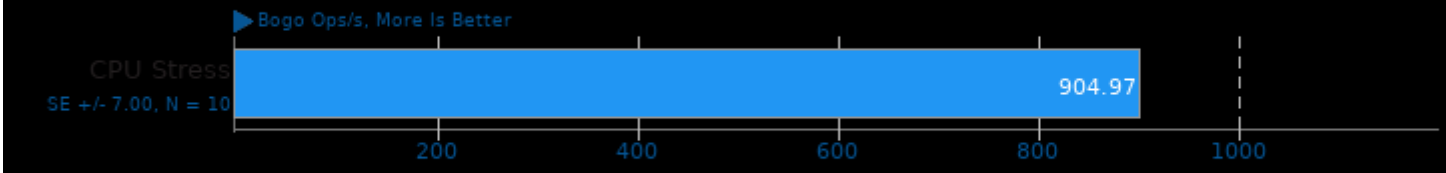
Test: Forking



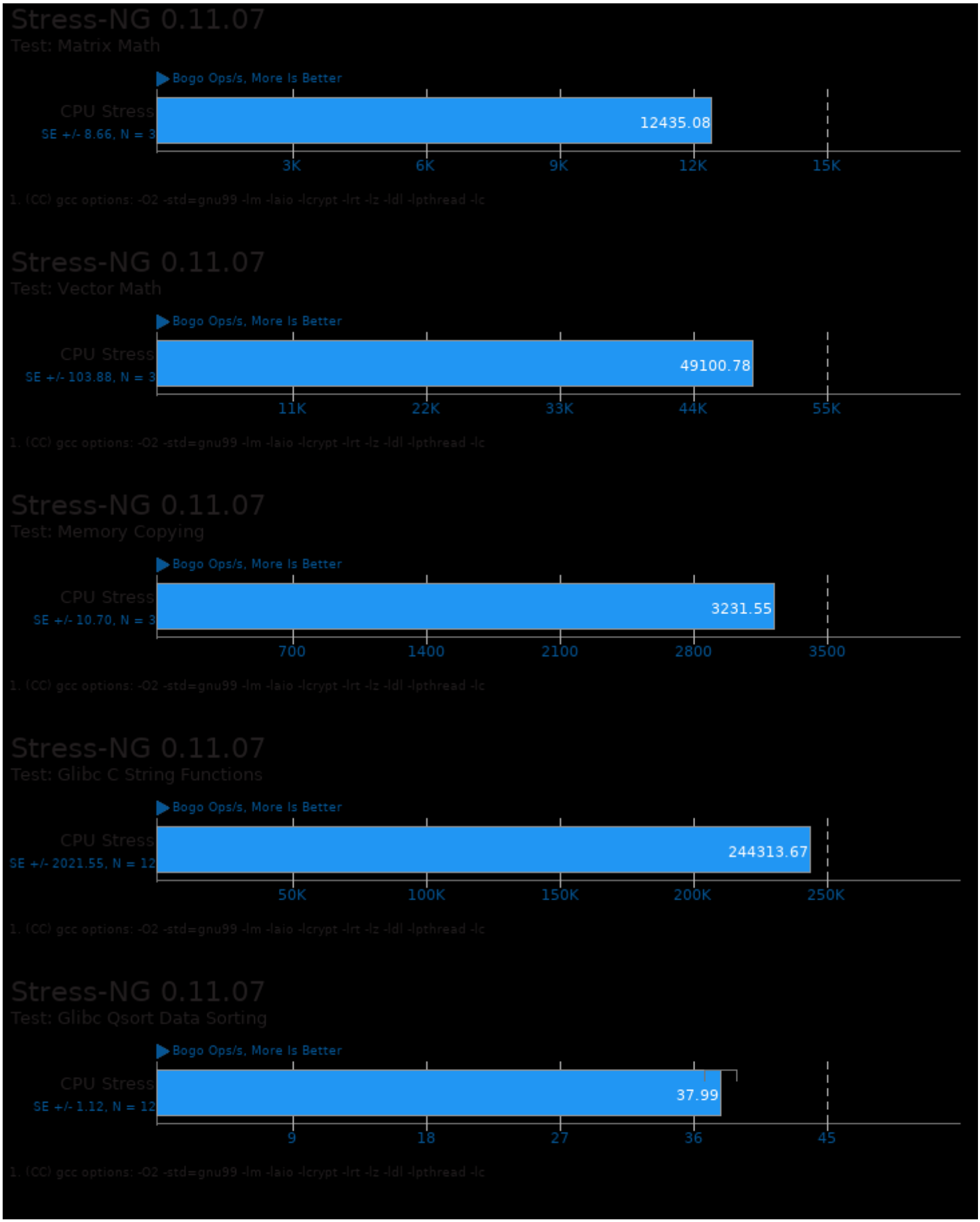
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

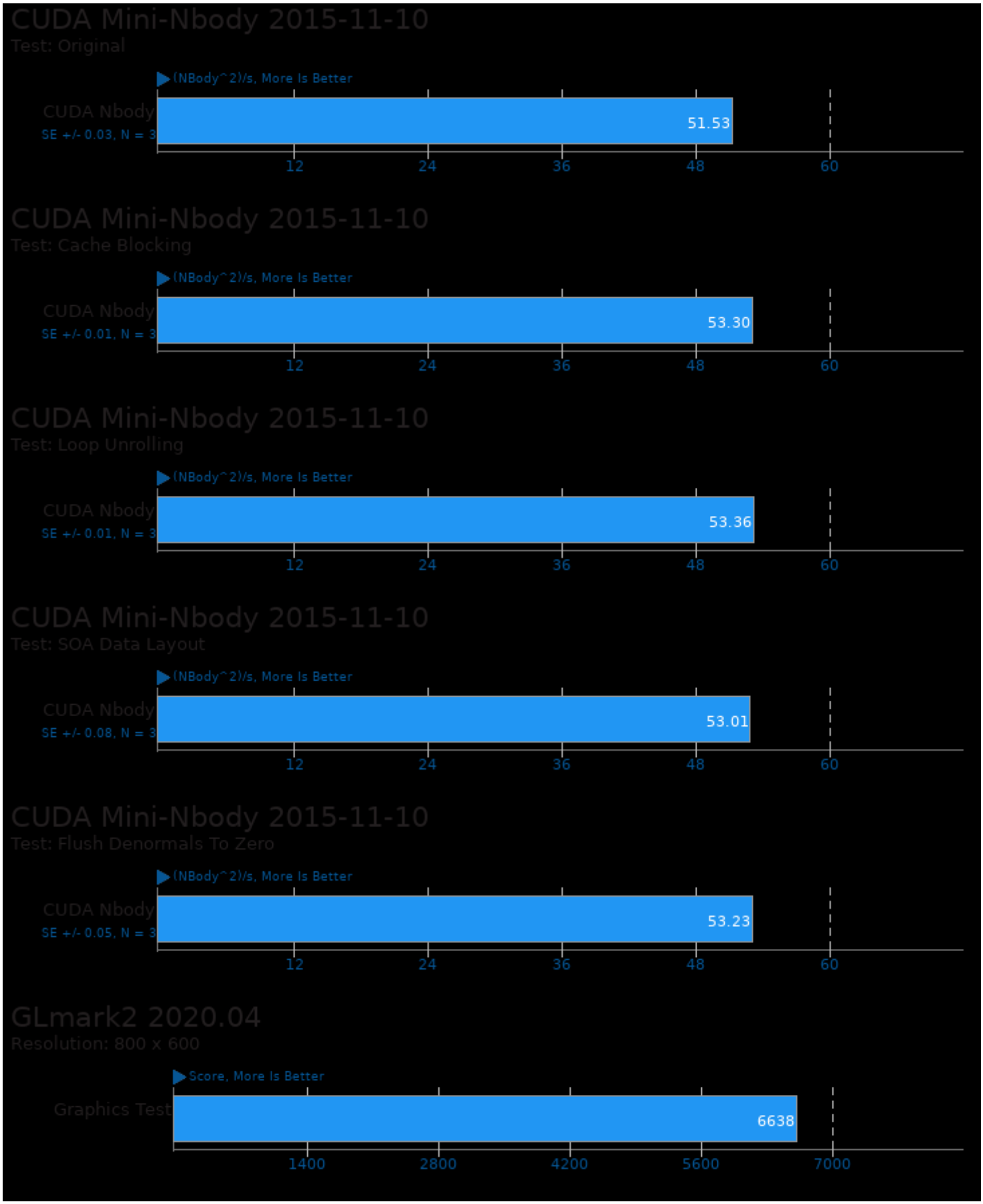
Stress-NG 0.11.07

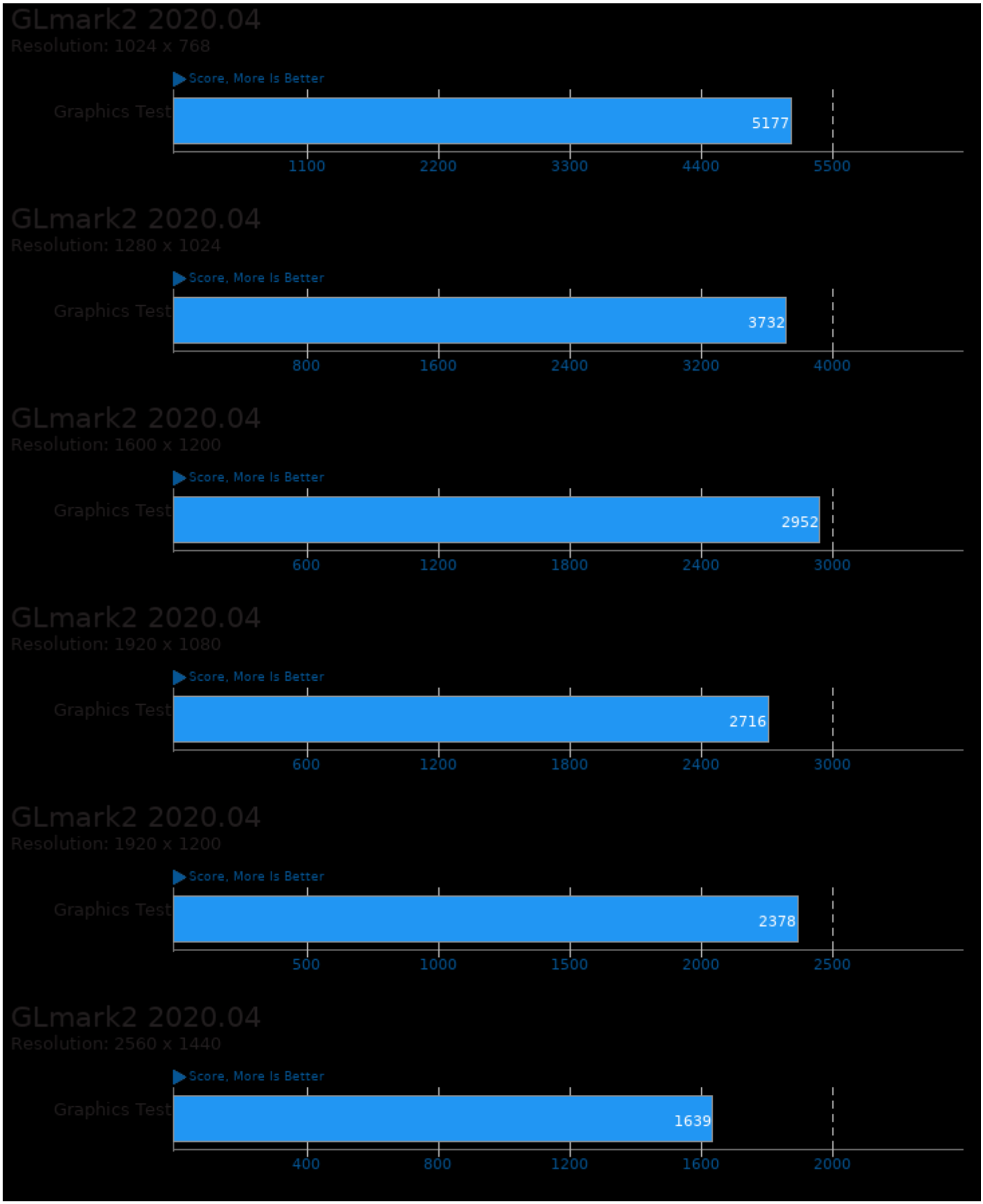
Test: CPU Stress

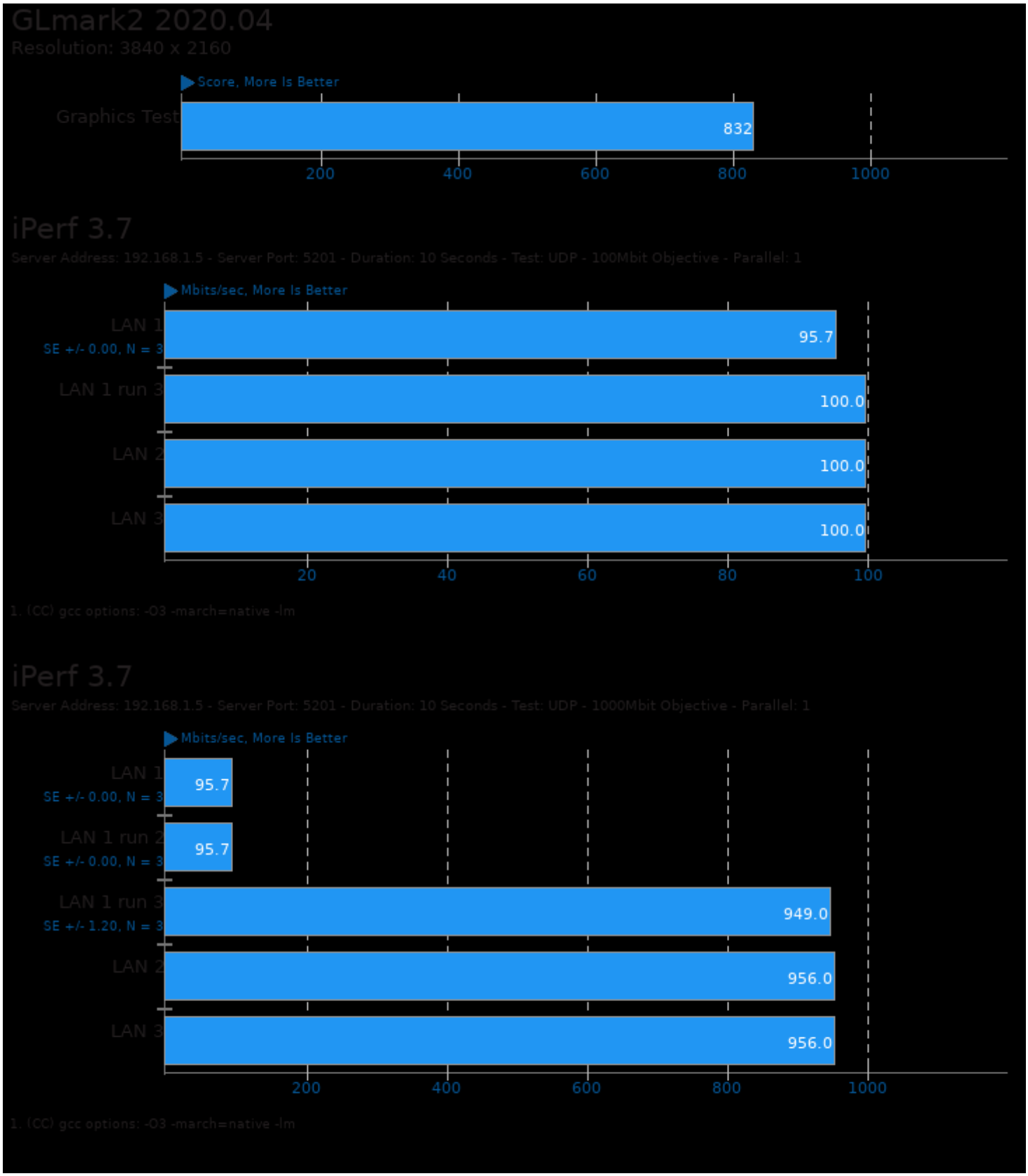


1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc


Stress-NG 0.11.07
Test: Matrix Math
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 8.66, N = 3
12435.08
3K
6K
9K
12K
15K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc
Stress-NG 0.11.07
Test: Vector Math
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 103.88, N = 3
49100.78
11K
22K
33K
44K
55K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc
Stress-NG 0.11.07
Test: Memory Copying
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 10.70, N = 3
3231.55
700
1400
2100
2800
3500
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
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 2021.55, N = 12
244313.67
50K
100K
150K
200K
250K
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
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 1.12, N = 12
37.99
9
18
27
36
45
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc


CUDA Mini-Nbody 2015-11-10
Test: Original
(NBody^2)/s, More Is Better
CUDA Nbody
SE +/- 0.03, N = 3
51.53
12
24
36
48
60
CUDA Mini-Nbody 2015-11-10
Test: Cache Blocking
(NBody^2)/s, More Is Better
CUDA Nbody
SE +/- 0.01, N = 3
53.30
12
24
36
48
60
CUDA Mini-Nbody 2015-11-10
Test: Loop Unrolling
(NBody^2)/s, More Is Better
CUDA Nbody
SE +/- 0.01, N = 3
53.36
12
24
36
48
60
CUDA Mini-Nbody 2015-11-10
Test: SOA Data Layout
(NBody^2)/s, More Is Better
CUDA Nbody
SE +/- 0.08, N = 3
53.01
12
24
36
48
60
CUDA Mini-Nbody 2015-11-10
Test: Flush Denormals To Zero
(NBody^2)/s, More Is Better
CUDA Nbody
SE +/- 0.05, N = 3
53.23
12
24
36
48
60
GLmark2 2020.04
Resolution: 800 x 600
Score, More Is Better
Graphics Test
6638
1400
2800
4200
5600
7000


GLmark2 2020.04
Resolution: 1024 x 768
Score, More Is Better
Graphics Test
5177
1100
2200
3300
4400
5500
GLmark2 2020.04
Resolution: 1280 x 1024
Score, More Is Better
Graphics Test
3732
800
1600
2400
3200
4000
GLmark2 2020.04
Resolution: 1600 x 1200
Score, More Is Better
Graphics Test
2952
600
1200
1800
2400
3000
GLmark2 2020.04
Resolution: 1920 x 1080
Score, More Is Better
Graphics Test
2716
600
1200
1800
2400
3000
GLmark2 2020.04
Resolution: 1920 x 1200
Score, More Is Better
Graphics Test
2378
500
1000
1500
2000
2500
GLmark2 2020.04
Resolution: 2560 x 1440
Score, More Is Better
Graphics Test
1639
400
800
1200
1600
2000



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 11:10.