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R32_5_1_TX2-NX_AIE-CT43_1

ARMv8 Cortex-A57 testing with a lanai-3636 and NVIDIA Tegra X2 on Ubuntu 18.04 via the Phoronix Test Suite.

Test Systems:

eMMC

Processor: ARMv8 Cortex-A57 @ 2.04GHz (4 Cores), Motherboard: lanai-3636, Memory: 4096MB, Disk: 120GB M.2 (P42) 3TE6 + 16GB DG4016, Graphics: NVIDIA TEGRA, Monitor: Acer KG241Q, Network: Intel 8265 / 8275

OS: Ubuntu 18.04, Kernel: 4.9.201-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 1.0.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

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

cuda

Processor: ARMv8 Cortex-A57 @ 2.04GHz (4 Cores), Motherboard: lanai-3636, Memory: 4096MB, Disk: 120GB M.2 (P42) 3TE6 + 16GB DG4016, Graphics: NVIDIA TEGRA, Monitor: Acer KG241Q, Network: Intel 8265 / 8275

OS: Ubuntu 18.04, Kernel: 4.9.201-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 1.0.0, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

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

NVIDIA Tegra X2

memory

cpu

lan

wlan

Processor: ARMv8 Cortex-A57 @ 2.04GHz (6 Cores), Motherboard: lanai-3636, Memory: 4096MB, Disk: 120GB M.2 (P42) 3TE6 + 16GB DG4016, Graphics: NVIDIA Tegra X2, Monitor: ASUS VN248, Network: Intel 8265 / 8275

OS: Ubuntu 18.04, Kernel: 4.9.201-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.5.1, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

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

ssd

glmark2

Processor: ARMv8 Cortex-A57 @ 2.04GHz (6 Cores), Motherboard: lanai-3636, Memory: 4096MB, Disk: 120GB M.2 (P42) 3TE6 + 16GB DG4016, Graphics: NVIDIA Tegra X2, Monitor: EDIIG0219, Network: Intel 8265 / 8275

OS: Ubuntu 18.04, Kernel: 4.9.201-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.5.1, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: tegra_cpufreq schedutil
Python Notes: Python 2.7.17 + Python 3.6.9

usb2.0

Processor: ARMv8 Cortex-A57 @ 2.04GHz (6 Cores), Motherboard: lanai-3636, Memory: 4096MB, Disk: 120GB M.2 (P42) 3TE6 + 8GB FLASH DRIVE + 16GB DG4016, Graphics: NVIDIA Tegra X2, Monitor: EDIIG0219, Network: Intel

8265 / 8275

OS: Ubuntu 18.04, Kernel: 4.9.201-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.5.1, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

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

usb3.0.1

usb3.0.2

usb3.0.3

usb3.0.4

usb3.0.5

usb3.0.6

usb3.0.7

Processor: ARMv8 Cortex-A57 @ 2.04GHz (6 Cores), Motherboard: lanai-3636, Memory: 4096MB, Disk: 120GB M.2 (P42) 3TE6 + 16GB USB Drive 3ME + 16GB DG4016, Graphics: NVIDIA Tegra X2, Monitor: EDIIG0219, Network: Intel 8265 / 8275

OS: Ubuntu 18.04, Kernel: 4.9.201-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.5.1, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

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

	eMMC	cuda	NVIDIA Tegra X2	memory	cpu	lan	wlan	ssd	glmark2	usb2.0	usb3.0.1	usb3.0.2	usb3.0.3	usb3.0.4	usb3.0.5	usb3.0.6	usb3.0.7

CUDA Mini-Nbody - Original ((NBody^2)/s)	**8.073**	**8.513**		
Normalized	94.83%	100%		
Standard Deviation	2.3%	0.1%		
CUDA Mini-Nbody - Cache Blocking ((NBody^2)/s)	**18.121**	**22.109**		
Normalized	81.96%	100%		
Standard Deviation	0.3%	0.6%		
CUDA Mini-Nbody - Loop Unrolling ((NBody^2)/s)		23.134		
Standard Deviation		0.6%		
CUDA Mini-Nbody - SOA Data Layout ((NBody^2)/s)		10.280		
Standard Deviation		0.5%		
CUDA Mini-Nbody - F.D.T.Z ((NBody^2)/s)		10.139		
Standard Deviation		1%		
Stress-NG - Crypto (Bogo Ops/s)			259.08	
Standard Deviation			0.2%	

Stress-NG - Forking (Bogo Ops/s)	614.7
Standard Deviation	16.7%
Stress-NG - CPU Stress (Bogo Ops/s)	167.3
Standard Deviation	0.9%
Stress-NG - Matrix Math (Bogo Ops/s)	1233
Standard Deviation	2.4%
Stress-NG - Vector Math (Bogo Ops/s)	5837
Standard Deviation	0.5%
Stress-NG - Memory Copying (Bogo Ops/s)	297.4
Standard Deviation	0.5%
Stress-NG - G.C.S.F (Bogo Ops/s)	6529
Standard Deviation	0.3%
Stress-NG - G.Q.D.S (Bogo Ops/s)	12.01
Standard Deviation	1.4%

R32_5_1_TX2-NX_AIE-CT43_1

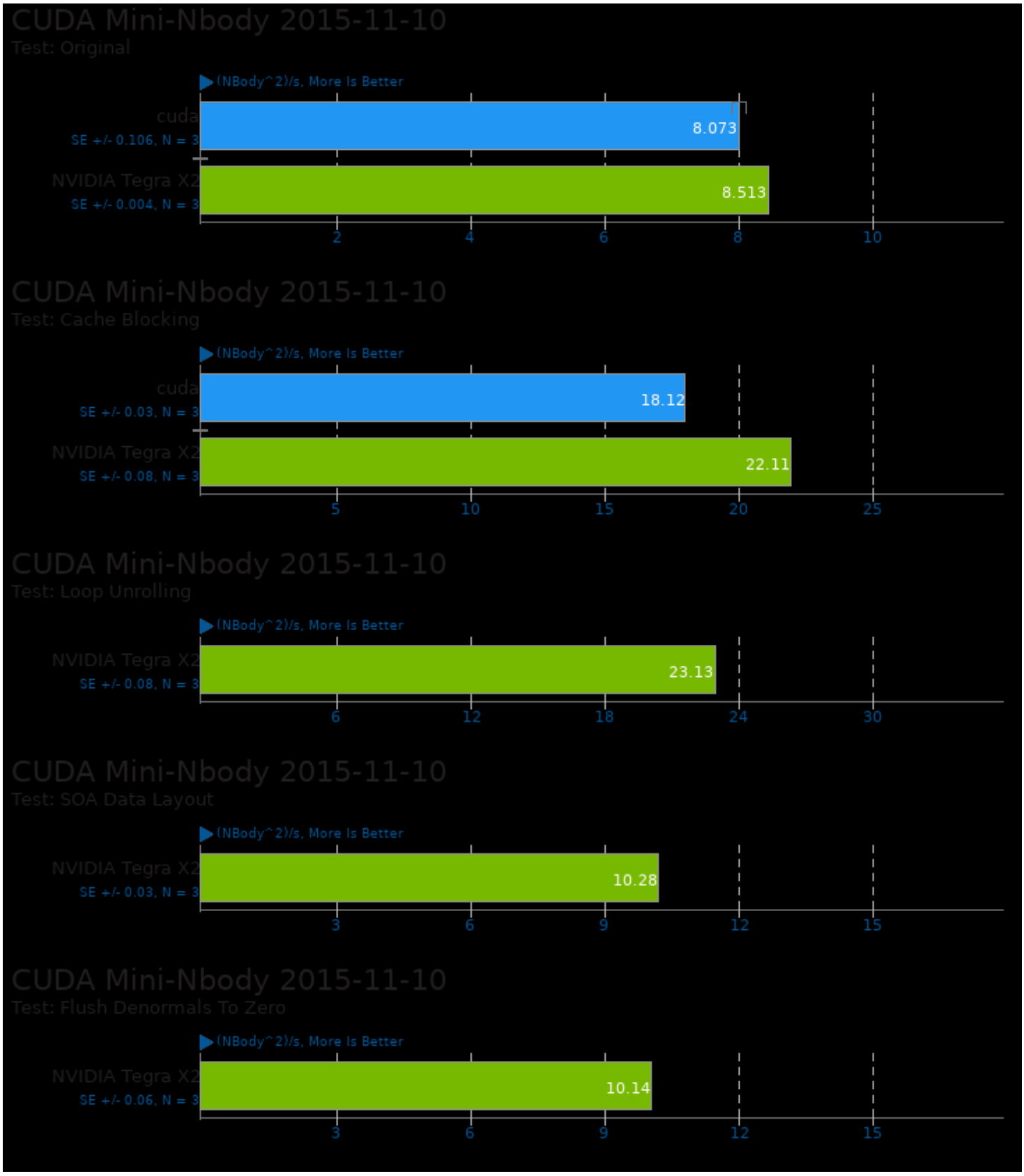
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	3753	**41600**	**4801**	21567	21500	21600	21600	21500	21700	21733
Normalized	90.22%	100%	11.54%	51.84%	51.68%	51.92%	51.92%	51.68%	52.16%	52.24%
Standard Deviation	2%	0.4%	0.1%	0.5%	0.5%	0.5%		0.5%		1%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (IOPS)	36	**74**	**1**	11	10	10	11	11	11	11
Normalized	48.65%	100%	1.35%	14.86%	13.51%	13.51%	14.86%	14.86%	14.86%	14.86%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	2010	**33467**	**1868**	6071	6028	6055	5950	6041	6047	5999
Normalized	60.06%	100%	5.58%	18.14%	18.01%	18.09%	17.78%	18.05%	18.07%	17.93%
Standard Deviation		1.2%	5%	0.3%	1%	0.9%	3.7%	0.6%	0.1%	2.5%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (IOPS)	9	**19**		**2**	**2**	**2**	**2**	**2**	**2**	**2**
Normalized	47.37%	100%		10.53%	10.53%	10.53%	10.53%	10.53%	10.53%	10.53%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	147	**162**	**18.8**	84.2	83.9	84.6	84.4	84.0	84.4	84.6
Normalized	90.74%	100%	11.6%	51.98%	51.79%	52.22%	52.1%	51.85%	52.1%	52.22%
Standard Deviation	2.2%	0.4%	0.3%	0.6%	0.4%	0.4%	0.1%	0.2%	0.5%	1.7%

R32_5_1_TX2-NX_AIE-CT43_1

Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (MB/s)	314		**619**	**39.3**	113	111	111	112	113	112	116
Normalized	50.73 %		100%	6.35%	18.26 %	17.93 %	17.93 %	18.09 %	18.26 %	18.09 %	18.74 %
Standard Deviation			0.7%	0.6%		0.9%		1%	0.5%	2.4%	
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	78.5		**132**	**7.486**	23.7	23.5	23.7	23.3	23.6	23.7	23.4
Normalized	59.47 %		100%	5.67%	17.95 %	17.8%	17.95 %	17.65 %	17.88 %	17.95 %	17.73 %
Standard Deviation	0.3%		0.8%	5%	0.2%	1.1%	0.9%	3.6%	0.6%	0.2%	2.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (MB/s)	99.6		**181**	**29.2**	37.7	38.0	38.1	38.1	37.9	37.3	37.9
Normalized	55.03 %		100%	16.13 %	20.83 %	20.99 %	21.05 %	21.05 %	20.94 %	20.61 %	20.94 %
Standard Deviation	1.2%			2.3%	2.2%	1.1%	0.9%	1%	2.5%	2%	2.2%
Stream - Copy		9179									
Standard Deviation		1%									
Stream - Scale (MB/s)		9157									
Standard Deviation		1.2%									
Stream - Triad		7878									
Standard Deviation		0.6%									
Stream - Add (MB/s)		7915									
Standard Deviation		0.9%									

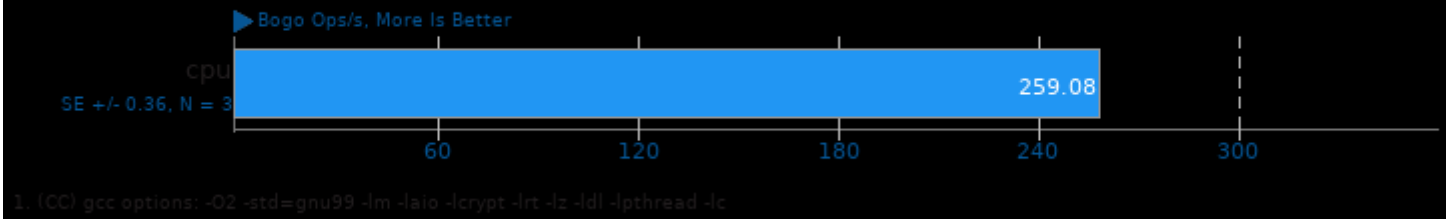
iPerf - 192.168.1.2 - 5201 - 10 Seconds - UDP - 100Mbit Objective - 1 (Mbits/s)	**100**	**45.6**
Normalized	100%	45.6%
Standard Deviation		38.2%
iPerf - 192.168.1.2 - 5201 - 10 Seconds - UDP - 1000Mbit Objective - 1 (Mbits/s)	**655**	**58.1**
Normalized	100%	8.87%
Standard Deviation	2.3%	11.4%

GLmark2 - 800 x 600 (Score)	3307
GLmark2 - 1024 x 768 (Score)	2646
GLmark2 - 1280 x 1024 (Score)	1870
GLmark2 - 1920 x 1080 (Score)	1412


CUDA Mini-Nbody 2015-11-10
Test: Original
(NBody^2)/s, More Is Better
cuda
SE +/- 0.106, N = 3
8.073
NVIDIA Tegra X2
SE +/- 0.004, N = 3
8.513
2
4
6
8
10
CUDA Mini-Nbody 2015-11-10
Test: Cache Blocking
(NBody^2)/s, More Is Better
cuda
SE +/- 0.03, N = 3
18.12
NVIDIA Tegra X2
SE +/- 0.08, N = 3
22.11
5
10
15
20
25
CUDA Mini-Nbody 2015-11-10
Test: Loop Unrolling
(NBody^2)/s, More Is Better
NVIDIA Tegra X2
SE +/- 0.08, N = 3
23.13
6
12
18
24
30
CUDA Mini-Nbody 2015-11-10
Test: SOA Data Layout
(NBody^2)/s, More Is Better
NVIDIA Tegra X2
SE +/- 0.03, N = 3
10.28
3
6
9
12
15
CUDA Mini-Nbody 2015-11-10
Test: Flush Denormals To Zero
(NBody^2)/s, More Is Better
NVIDIA Tegra X2
SE +/- 0.06, N = 3
10.14
3
6
9
12
15

Stress-NG 0.11.07

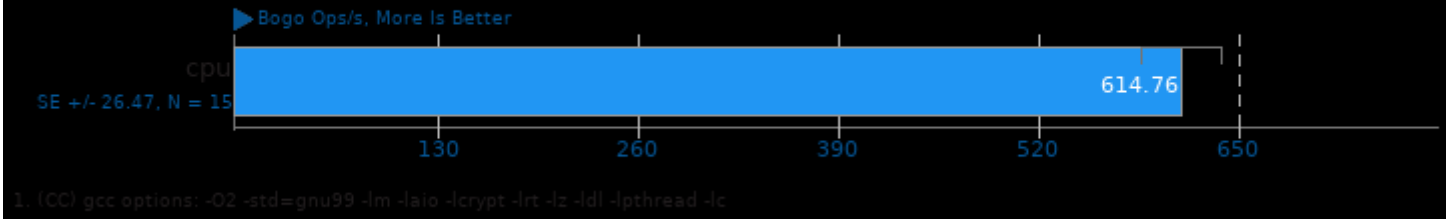
Test: Crypto



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

Stress-NG 0.11.07

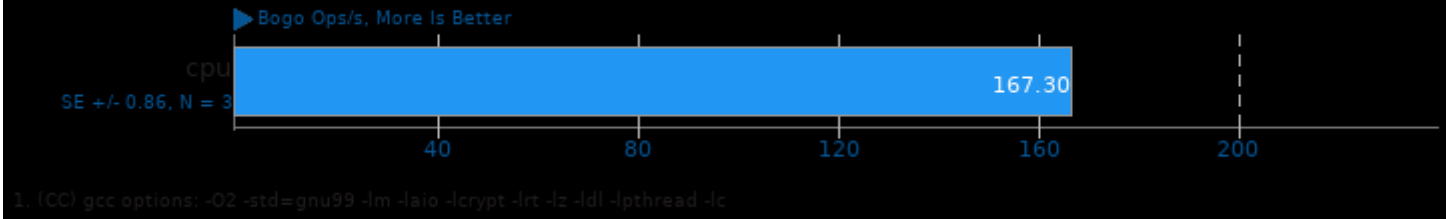
Test: Forking



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

Stress-NG 0.11.07

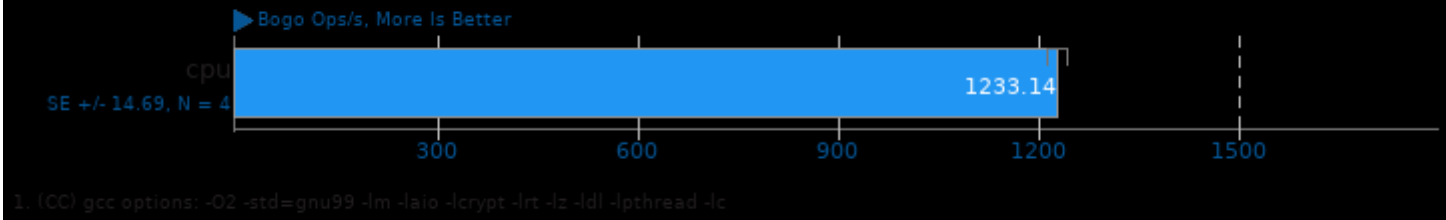
Test: CPU Stress



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

Stress-NG 0.11.07

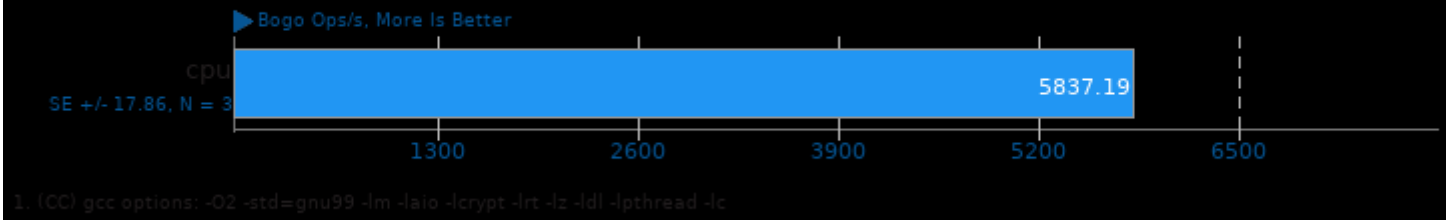
Test: Matrix Math



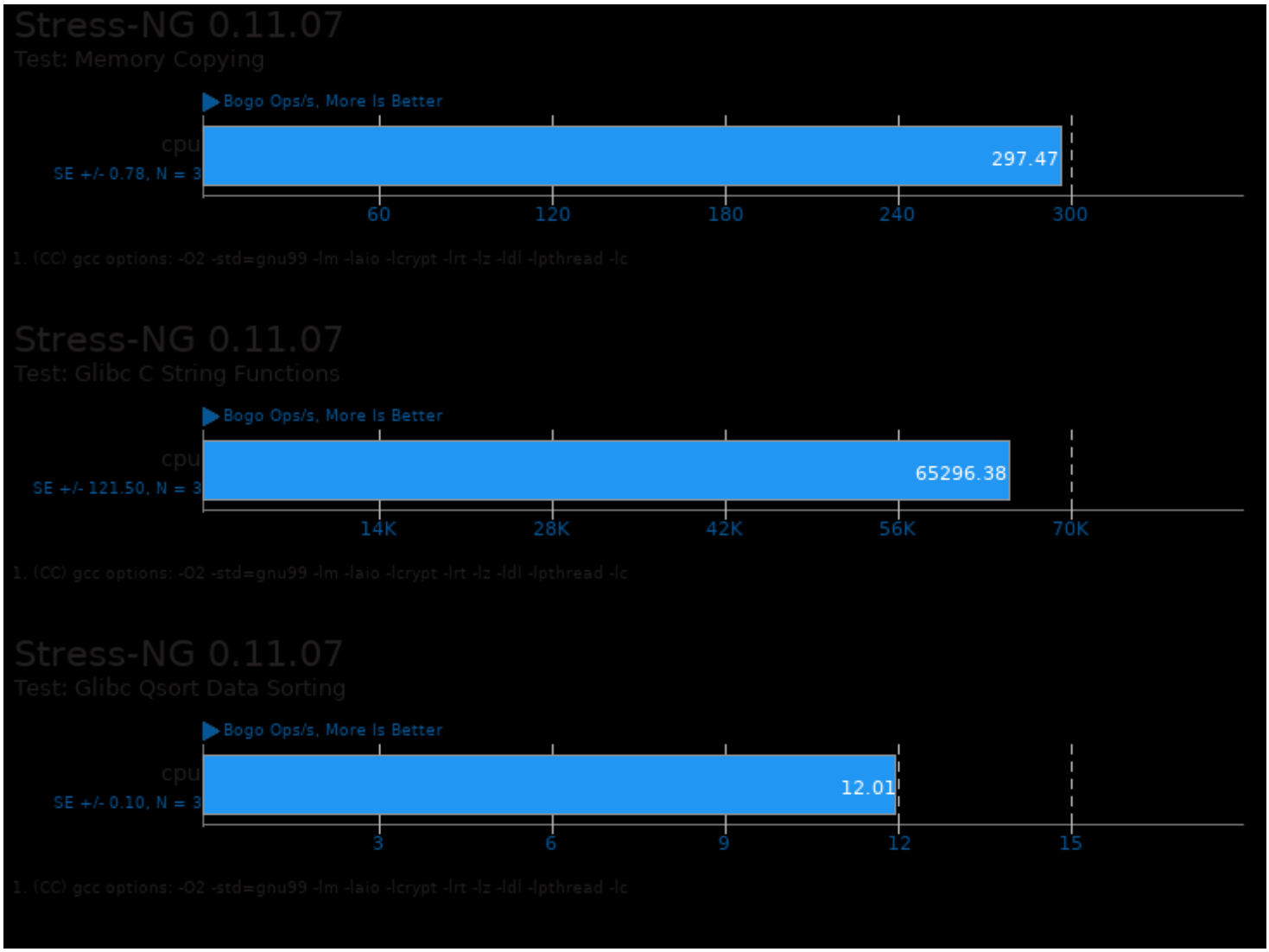
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

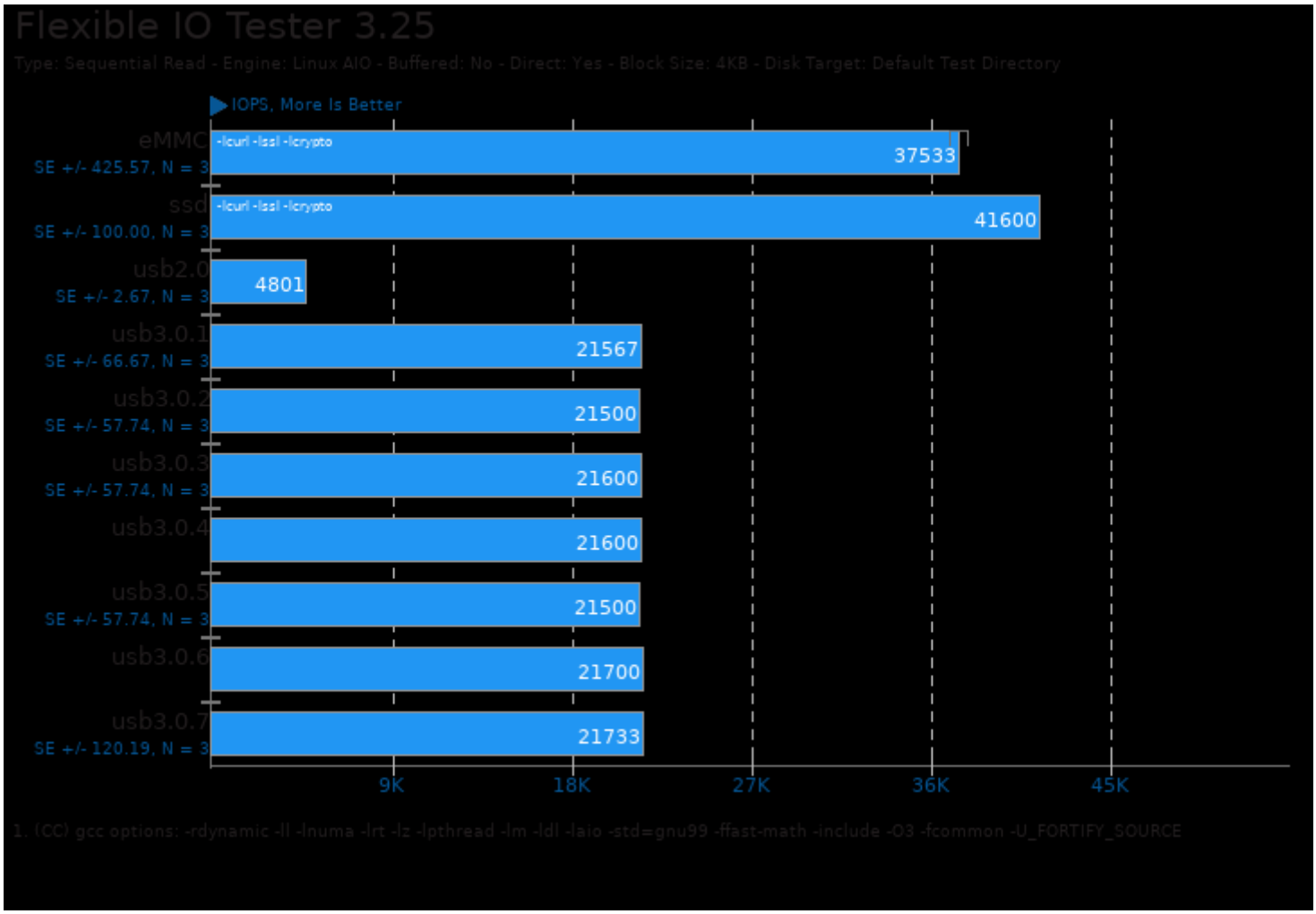
Stress-NG 0.11.07

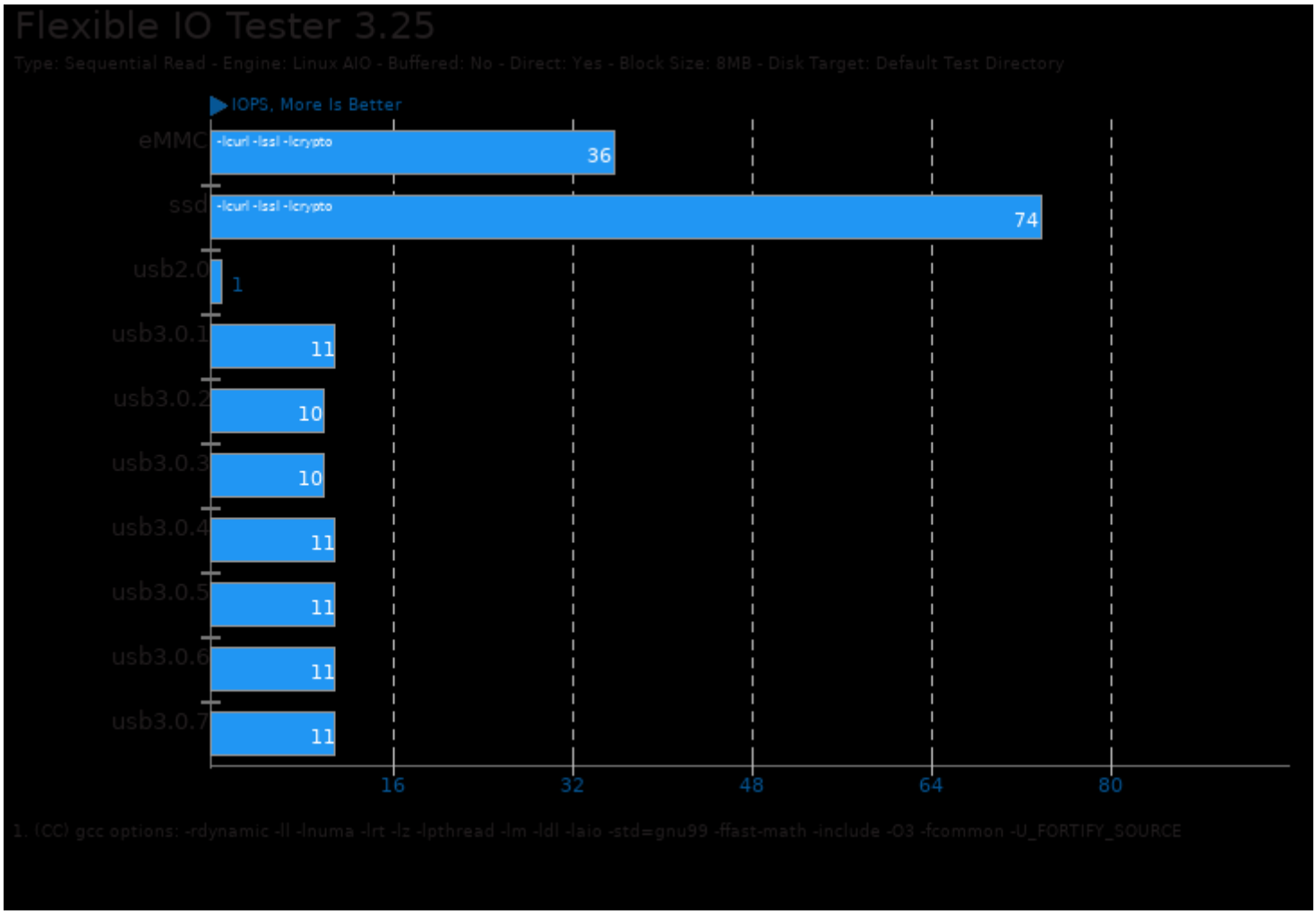
Test: Vector Math

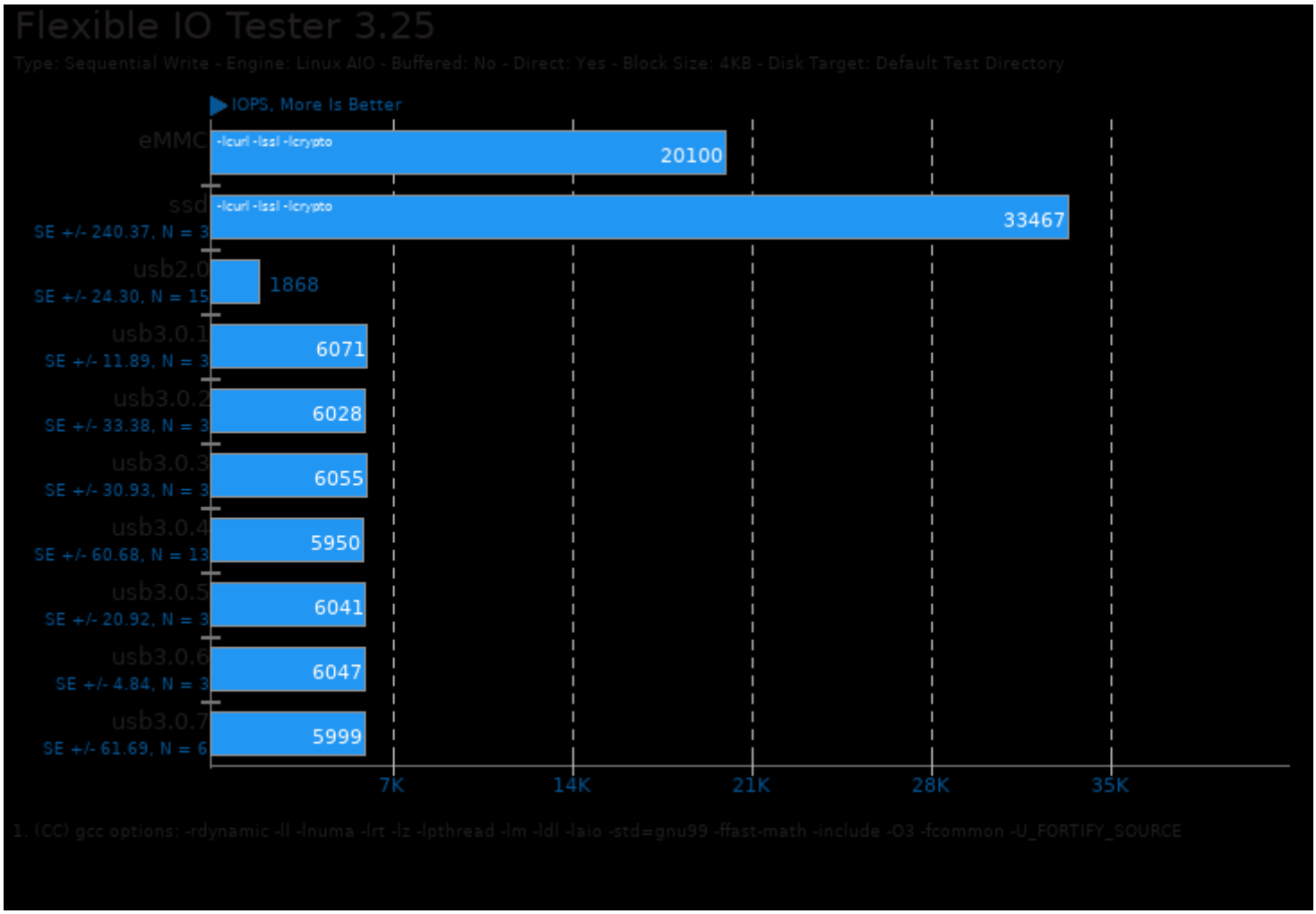


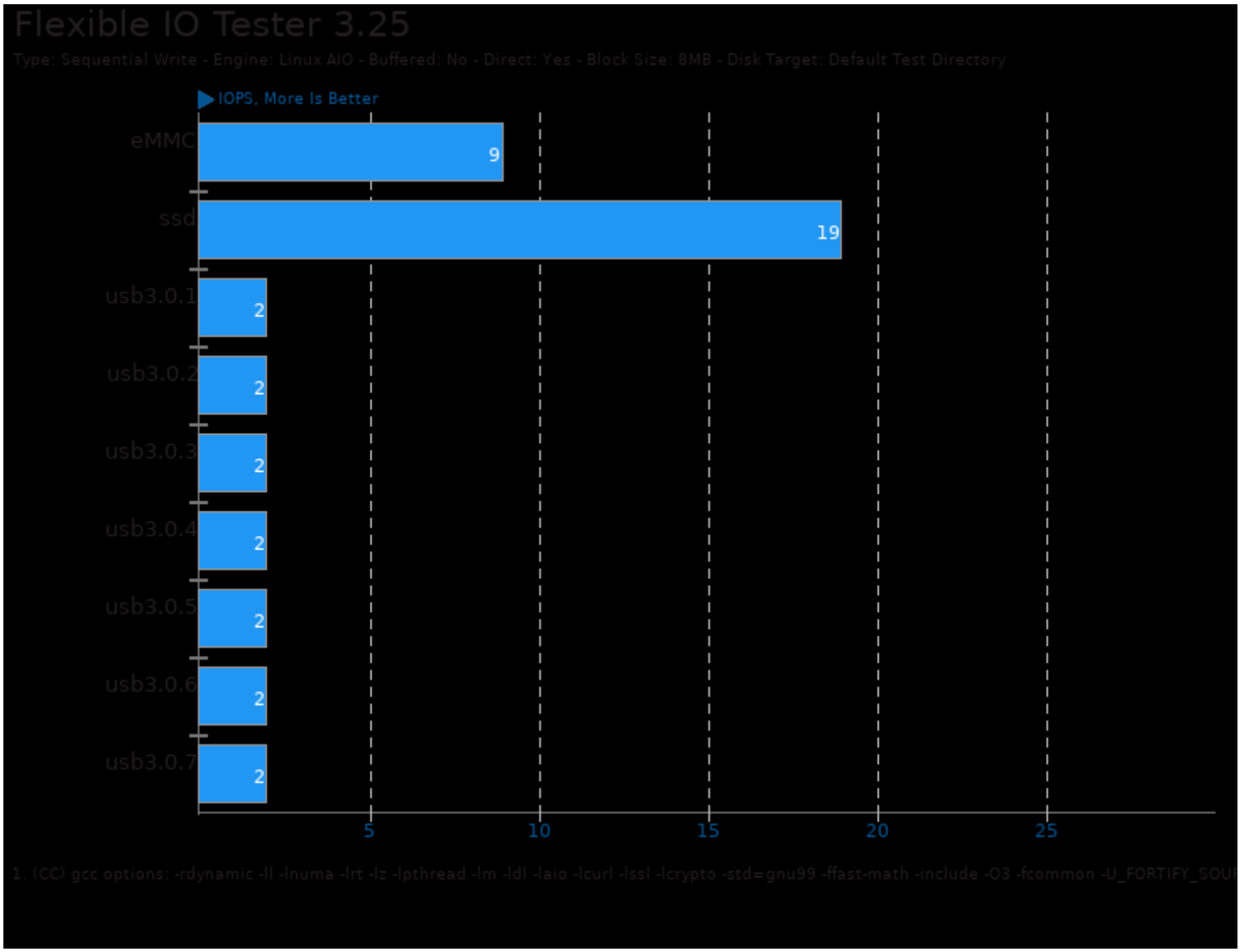
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

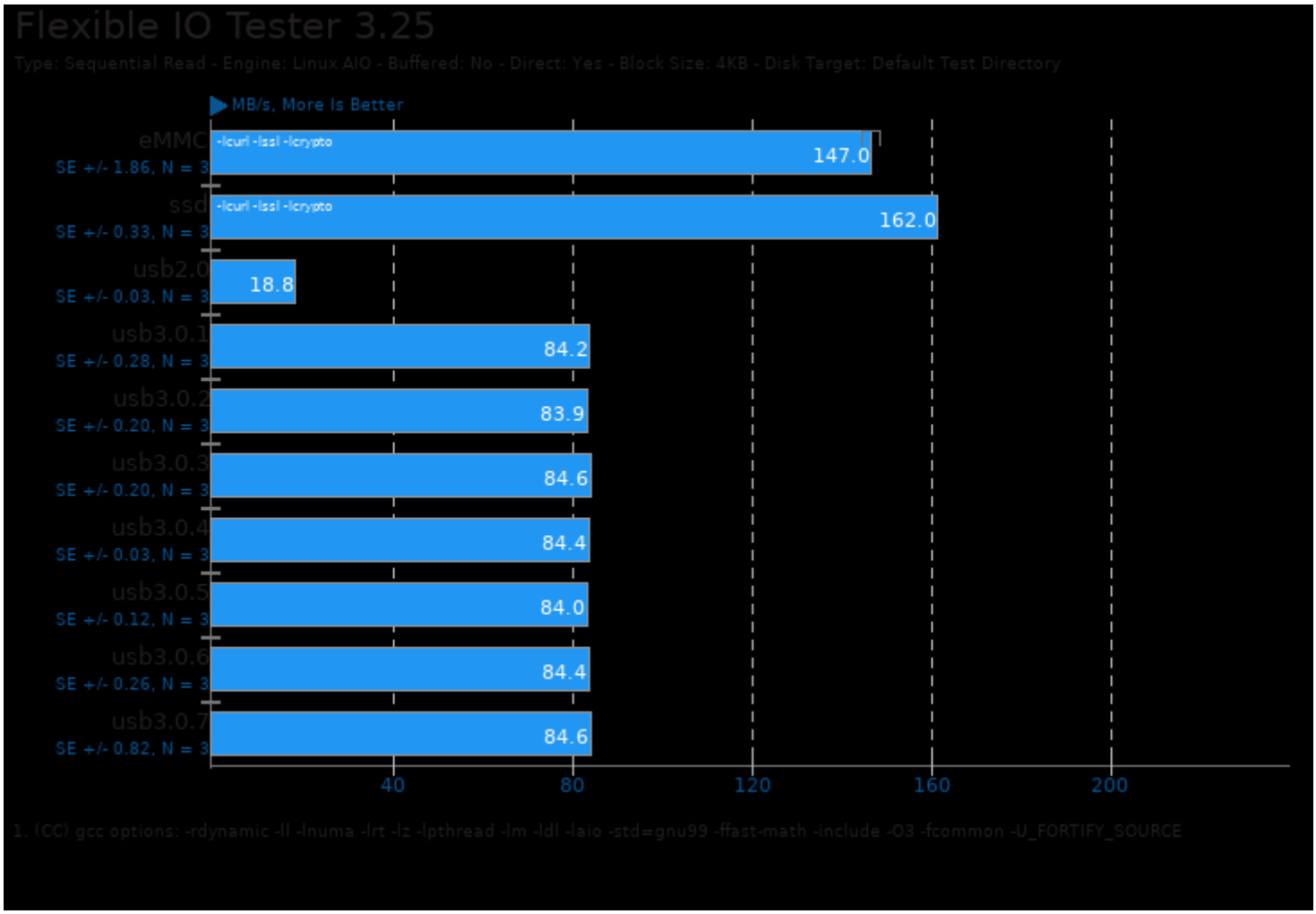

Stress-NG 0.11.07
Test: Memory Copying
Bogo Ops/s, More Is Better
cpu
SE +/- 0.78, N = 3
297.47
60
120
180
240
300
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc
Stress-NG 0.11.07
Test: Glibc C String Functions
Bogo Ops/s, More Is Better
cpu
SE +/- 121.50, N = 3
65296.38
14K
28K
42K
56K
70K
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
SE +/- 0.10, N = 3
12.01
3
6
9
12
15
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

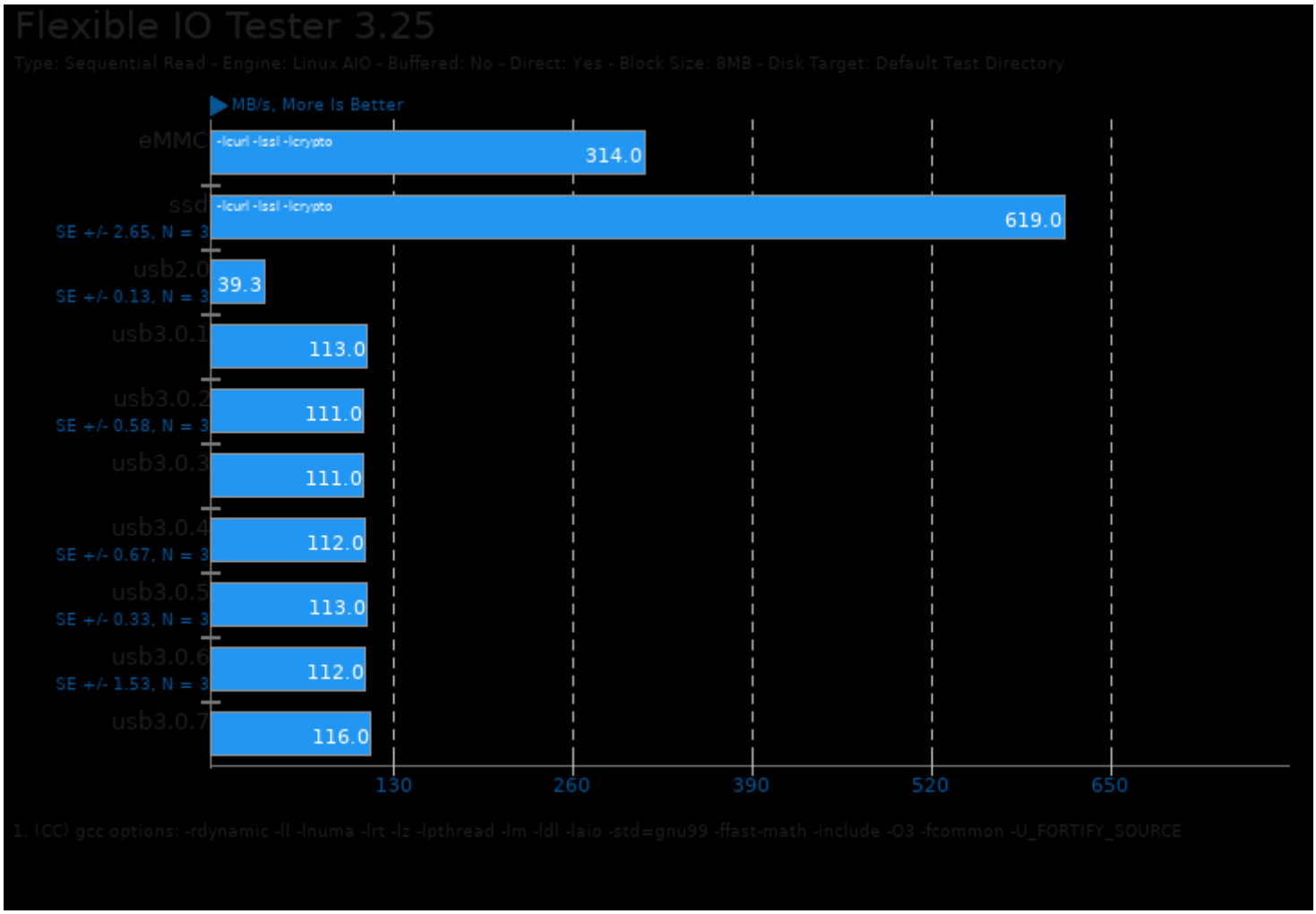

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
eMMC
SE +/- 425.57, N = 3
-lcurl -lssl -lcrypto
37533
ssd
SE +/- 100.00, N = 3
-lcurl -lssl -lcrypto
41600
usb2.0
SE +/- 2.67, N = 3
4801
usb3.0.1
SE +/- 66.67, N = 3
21567
usb3.0.2
SE +/- 57.74, N = 3
21500
usb3.0.3
SE +/- 57.74, N = 3
21600
usb3.0.4
21600
usb3.0.5
SE +/- 57.74, N = 3
21500
usb3.0.6
21700
usb3.0.7
SE +/- 120.19, N = 3
21733
9K
18K
27K
36K
45K
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

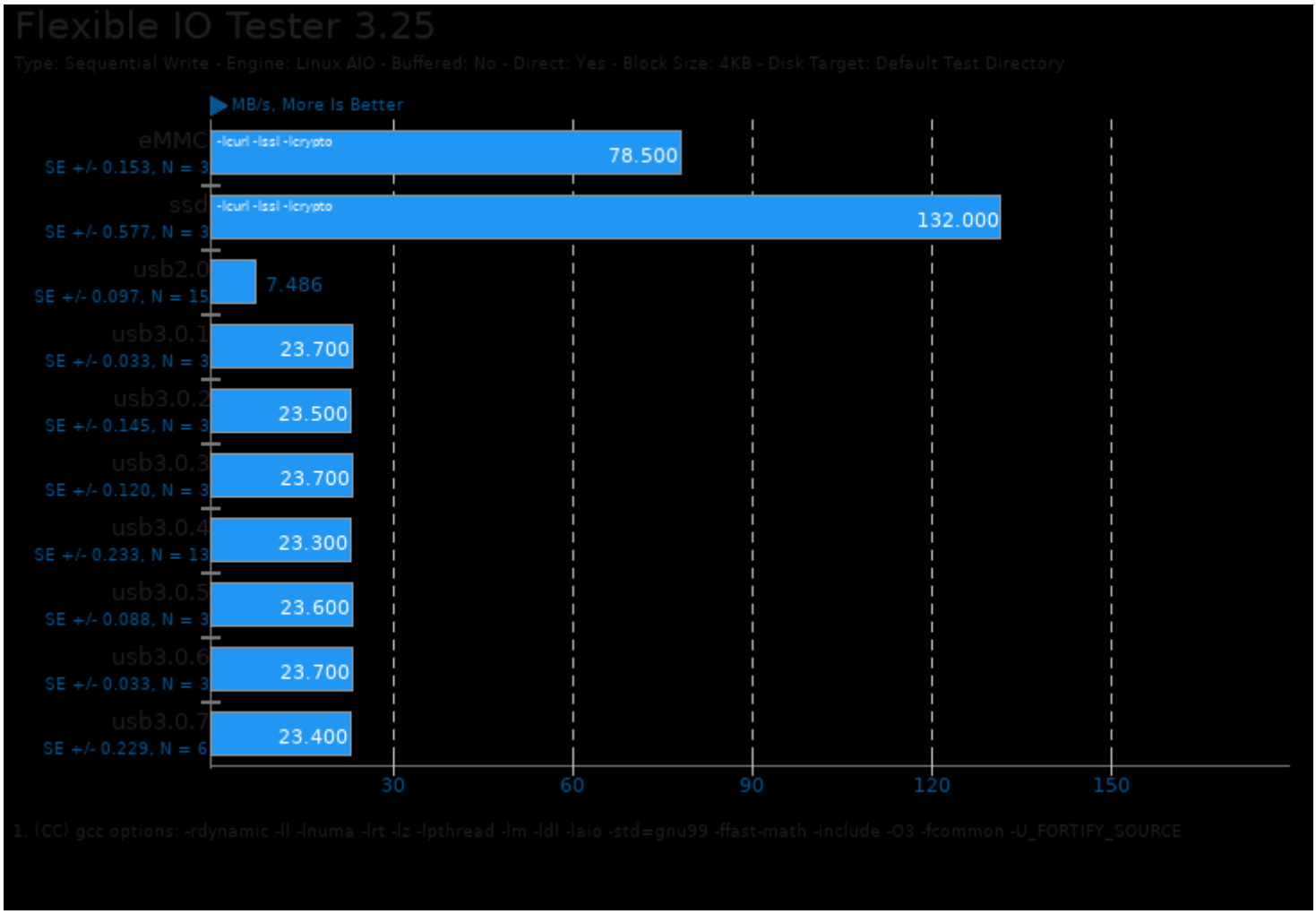

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
eMMC
-lcurl -lssl -lcrypto
36
ssd
-lcurl -lssl -lcrypto
74
usb2.0
1
usb3.0.1
11
usb3.0.2
10
usb3.0.3
10
usb3.0.4
11
usb3.0.5
11
usb3.0.6
11
usb3.0.7
11
16
32
48
64
80
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

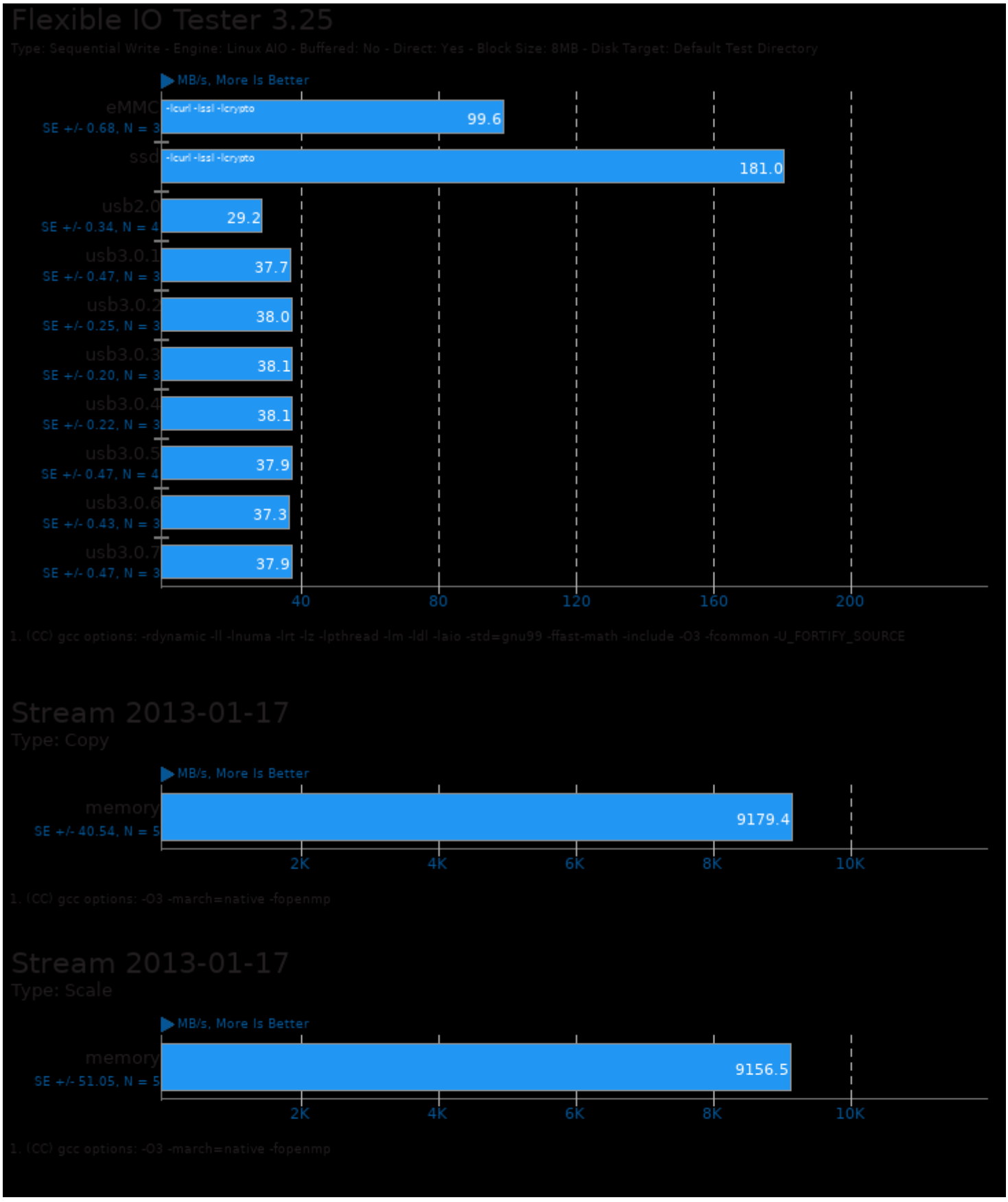

Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
eMMC
-lcurl -lssl -lcrypto
20100
ssd
-lcurl -lssl -lcrypto
33467
SE +/- 240.37, N = 3
usb2.0
1868
SE +/- 24.30, N = 15
usb3.0.1
6071
SE +/- 11.89, N = 3
usb3.0.2
6028
SE +/- 33.38, N = 3
usb3.0.3
6055
SE +/- 30.93, N = 3
usb3.0.4
5950
SE +/- 60.68, N = 13
usb3.0.5
6041
SE +/- 20.92, N = 3
usb3.0.6
6047
SE +/- 4.84, N = 3
usb3.0.7
5999
SE +/- 61.69, N = 6
7K
14K
21K
28K
35K
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
eMMC
9
ssd
19
usb3.0.1
2
usb3.0.2
2
usb3.0.3
2
usb3.0.4
2
usb3.0.5
2
usb3.0.6
2
usb3.0.7
2
5
10
15
20
25
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOU


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
eMMC
SE +/- 1.86, N = 3
-lcurl -lssl -lcrypto
147.0
ssd
SE +/- 0.33, N = 3
-lcurl -lssl -lcrypto
162.0
usb2.0
SE +/- 0.03, N = 3
18.8
usb3.0.1
SE +/- 0.28, N = 3
84.2
usb3.0.2
SE +/- 0.20, N = 3
83.9
usb3.0.3
SE +/- 0.20, N = 3
84.6
usb3.0.4
SE +/- 0.03, N = 3
84.4
usb3.0.5
SE +/- 0.12, N = 3
84.0
usb3.0.6
SE +/- 0.26, N = 3
84.4
usb3.0.7
SE +/- 0.82, N = 3
84.6
40
80
120
160
200
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
eMMC
-lcurl -lssl -lcrypto
314.0
ssd
-lcurl -lssl -lcrypto
619.0
SE +/- 2.65, N = 3
usb2.0
39.3
SE +/- 0.13, N = 3
usb3.0.1
113.0
usb3.0.2
111.0
SE +/- 0.58, N = 3
usb3.0.3
111.0
usb3.0.4
112.0
SE +/- 0.67, N = 3
usb3.0.5
113.0
SE +/- 0.33, N = 3
usb3.0.6
112.0
SE +/- 1.53, N = 3
usb3.0.7
116.0
130
260
390
520
650
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
eMMC
SE +/- 0.153, N = 3
-lcurl -lssl -lcrypto
78.500
ssd
SE +/- 0.577, N = 3
-lcurl -lssl -lcrypto
132.000
usb2.0
SE +/- 0.097, N = 15
7.486
usb3.0.1
SE +/- 0.033, N = 3
23.700
usb3.0.2
SE +/- 0.145, N = 3
23.500
usb3.0.3
SE +/- 0.120, N = 3
23.700
usb3.0.4
SE +/- 0.233, N = 13
23.300
usb3.0.5
SE +/- 0.088, N = 3
23.600
usb3.0.6
SE +/- 0.033, N = 3
23.700
usb3.0.7
SE +/- 0.229, N = 6
23.400
30
60
90
120
150
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
eMMC
SE +/- 0.68, N = 3
-lcurl -lssl -lcrypto
99.6
ssd
-lcurl -lssl -lcrypto
181.0
usb2.0
SE +/- 0.34, N = 4
29.2
usb3.0.1
SE +/- 0.47, N = 3
37.7
usb3.0.2
SE +/- 0.25, N = 3
38.0
usb3.0.3
SE +/- 0.20, N = 3
38.1
usb3.0.4
SE +/- 0.22, N = 3
38.1
usb3.0.5
SE +/- 0.47, N = 4
37.9
usb3.0.6
SE +/- 0.43, N = 3
37.3
usb3.0.7
SE +/- 0.47, N = 3
37.9
40
80
120
160
200
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
memory
SE +/- 40.54, N = 5
9179.4
2K
4K
6K
8K
10K
1. (CC) gcc options: -O3 -march=native -fopenmp
Stream 2013-01-17
Type: Scale
MB/s, More Is Better
memory
SE +/- 51.05, N = 5
9156.5
2K
4K
6K
8K
10K
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

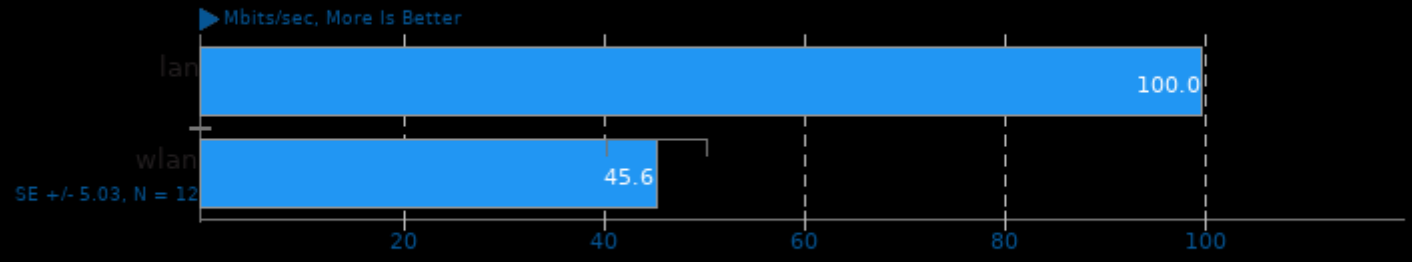
Type: Add



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

iPerf 3.7

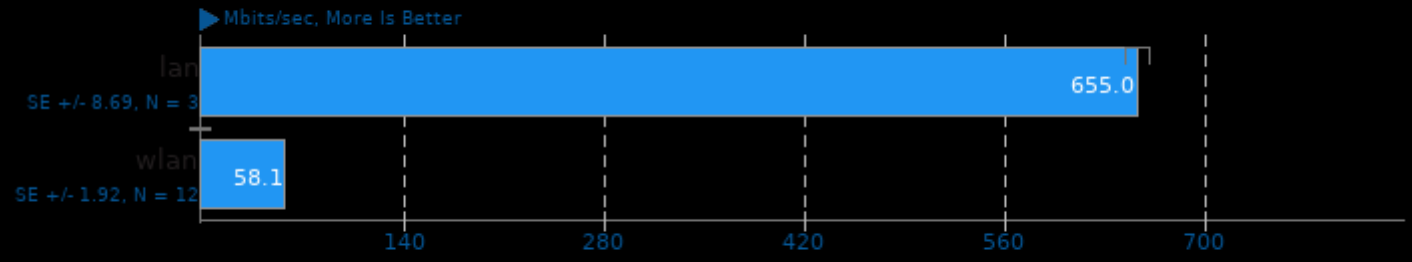
Server Address: 192.168.1.2 - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 100Mbit Objective - Parallel: 1



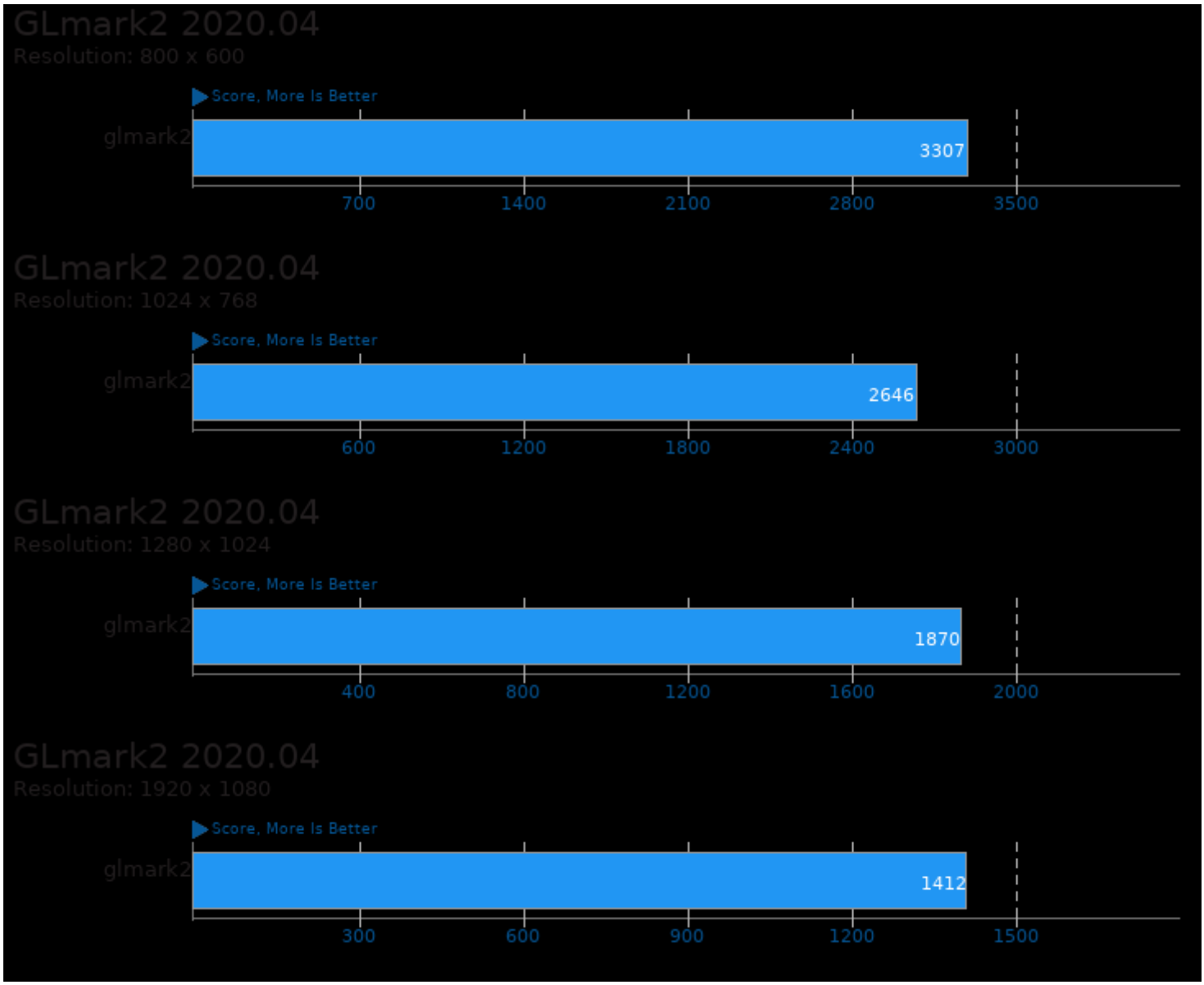
1. (CC) gcc options: -O3 -march=native -lssl -lcrypto -lm

iPerf 3.7

Server Address: 192.168.1.2 - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 1000Mbit Objective - Parallel: 1



1. (CC) gcc options: -O3 -march=native -lssl -lcrypto -lm



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 03:57.