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R32_5_1_Xavier_AX720_1

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: 4.9.201-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

M.2 SSD

USB 3.0

USB2.0

Micro SD Card

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 256GB INTEL SSDPEKKW256G8 + 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA Tegra Xavier, Monitor: PHL 247E6, Network: 2 x Intel I210

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

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

Type C

CPU Stress

CUDA Test

LPDDR4

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 256GB INTEL SSDPEKKW256G8 + 256GB Tech + 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: 4.9.201-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

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

RS-232UART

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 256GB INTEL SSDPEKKW256G8 + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: PHL 247E6, Network: 2 x Intel I210

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

Kernel Notes: Transparent Huge Pages: always
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

LAN

LAN1

LAN2

WLAN

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 256GB INTEL SSDPEKKW256G8 + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: EDIIG0219, Network: 2 x Intel I210 + 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

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: 256GB INTEL SSDPEKKW256G8 + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: EDIIG0219, Network: 2 x Intel I210 + 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: 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 msata

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 62GB Ultra USB 3.0 + 63GB M.2 (S80) 3MG2-P + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: EDIIG0219, Network: 2 x Intel I210 + 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

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

R32_5_1_Xavier_AX720_1

	eMMC	M.2 SSD	USB 3.0	USB2.0	Micro SD Card	Type C	CPU Stress	CUDA Test	LPDDR4	RS-232 UART	LAN	LAN1	LAN2	WLAN	Graphics Test	M.2 msata
CUDA Mini-Nbody - Original ((NBody^2)/s								35.798								
Standard Deviation								0%								
CUDA Mini-Nbody - Cache Blocking ((NBody^2)/s								36.857								
Standard Deviation								0%								
CUDA Mini-Nbody - Loop Unrolling ((NBody^2)/s								36.922								
Standard Deviation								0%								
CUDA Mini-Nbody - SOA Data Layout ((NBody^2)/s								36.676								
Standard Deviation								0%								
CUDA Mini-Nbody - F.D.T.Z ((NBody^2)/s								36.677								
Standard Deviation								0%								
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	162	**369**	94.5	**28.2**	55.2	299										199
Normalized	43.9%	100%	25.61%	7.64%	14.96%	81.03%										53.93%
Standard Deviation	0.9%	3.2%	0.2%	0.2%	0.1%	0.7%										0.5%

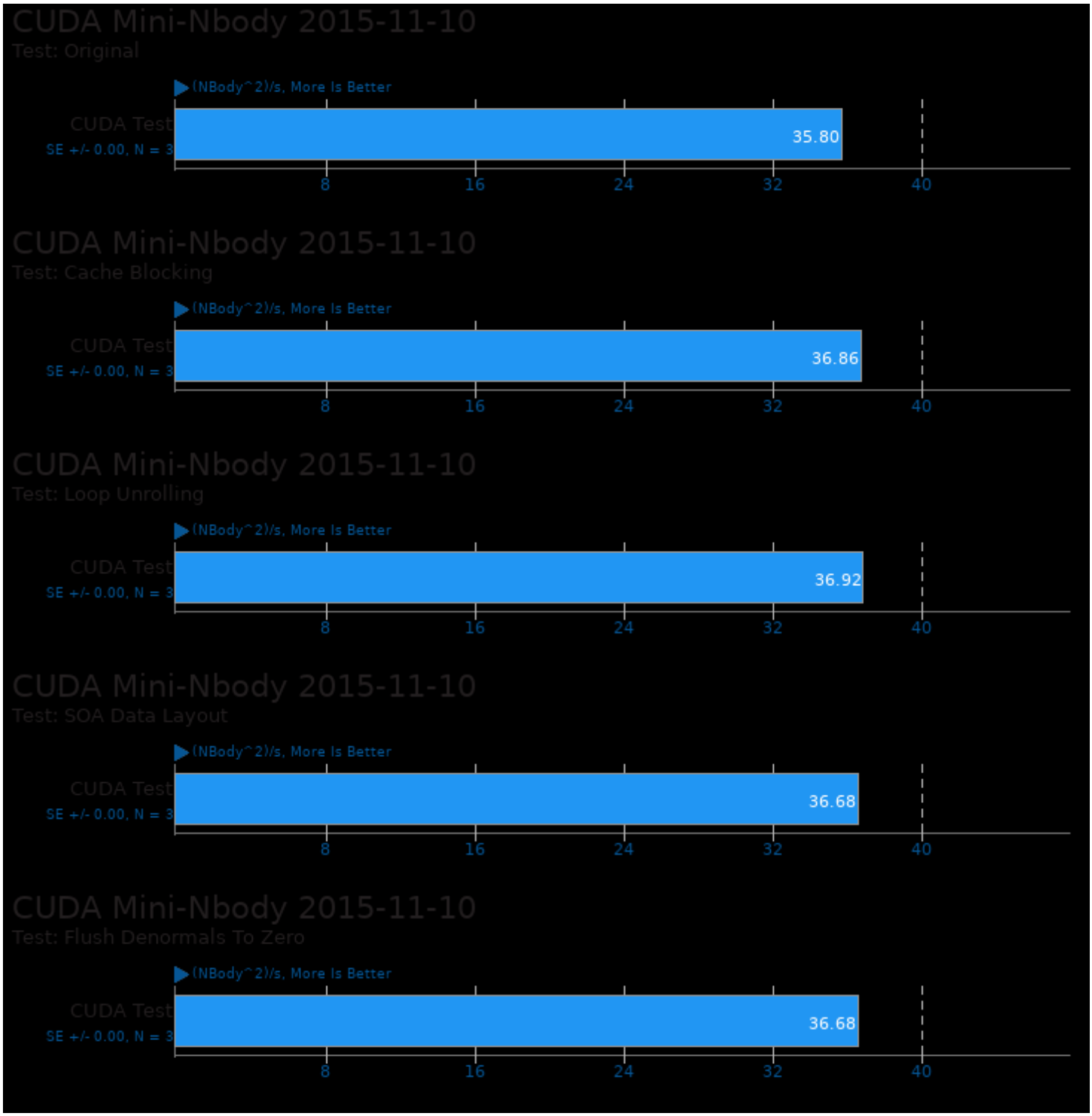
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	41333	**94413**	24233	**7228**	14100	75867		50600
Normalized	43.78%	100%	25.67%	7.66%	14.93%	80.36%		53.59%
Standard Deviation	1.1%	3.1%	0.2%	0.3%		1.1%		
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (MB/s)	304	**2376**	121	**53.0**	102	790		427
Normalized	12.79%	100%	5.09%	2.23%	4.29%	33.25%		17.97%
Standard Deviation		0.7%		1.1%				
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (IOPS)	34	**293**	12	**3**	9	95		50
Normalized	11.6%	100%	4.1%	1.02%	3.07%	32.42%		17.06%
Standard Deviation		0.8%						
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	93.2	222	24.6	25.1	**23.6**	**257**		84.8
Normalized	36.26%	86.38%	9.57%	9.77%	9.18%	100%		33%
Standard Deviation	5.1%	0.3%	2%	0.5%	4.4%	1.4%		0.7%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	23846	56900	6364	6426	**6054**	**65800**		21700
Normalized	36.24%	86.47%	9.67%	9.77%	9.2%	100%		32.98%
Standard Deviation	5.1%	0.2%	0.4%	0.3%	4.6%	1.5%		0.8%

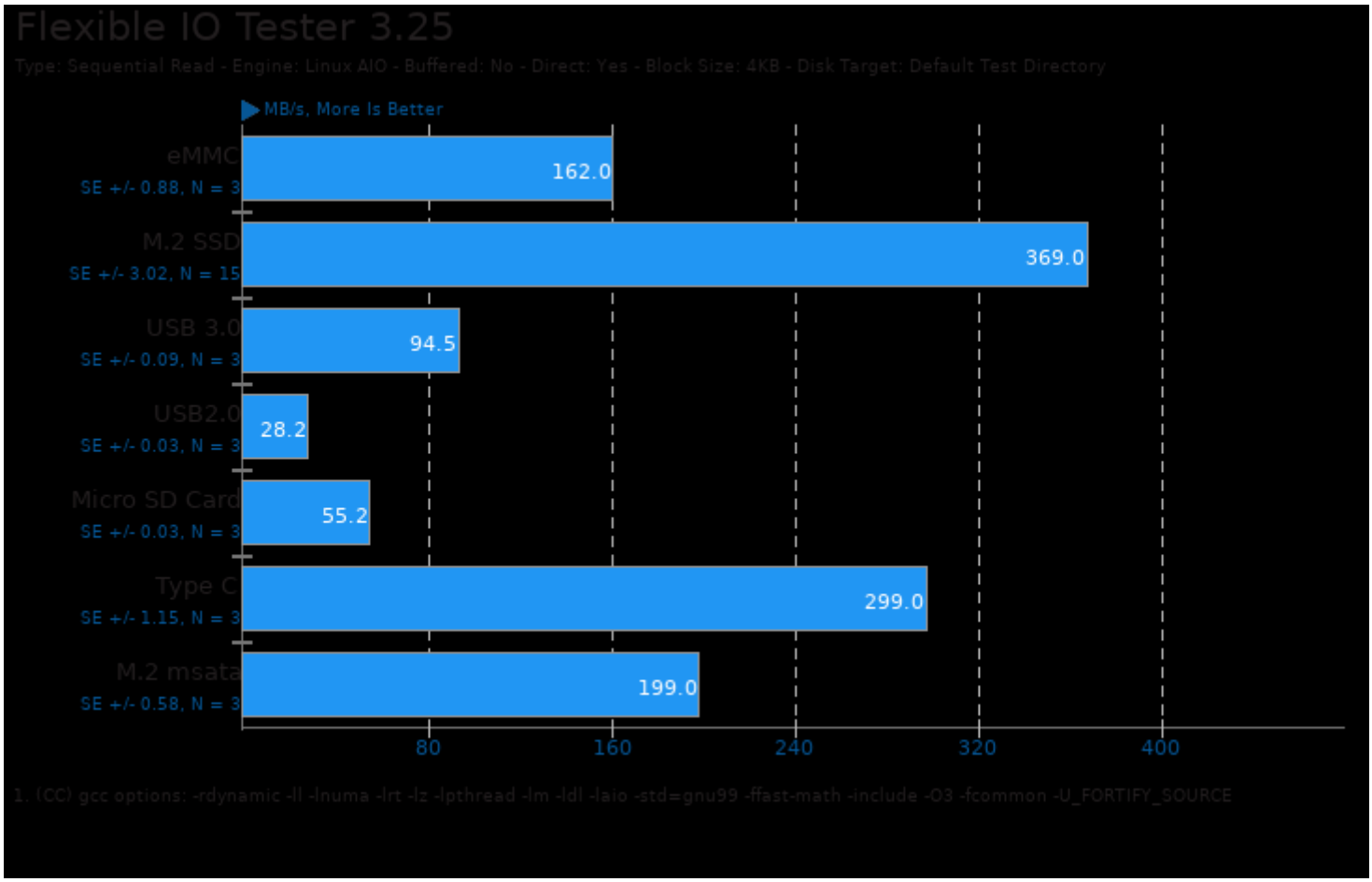
R32_5_1_Xavier_AX720_1

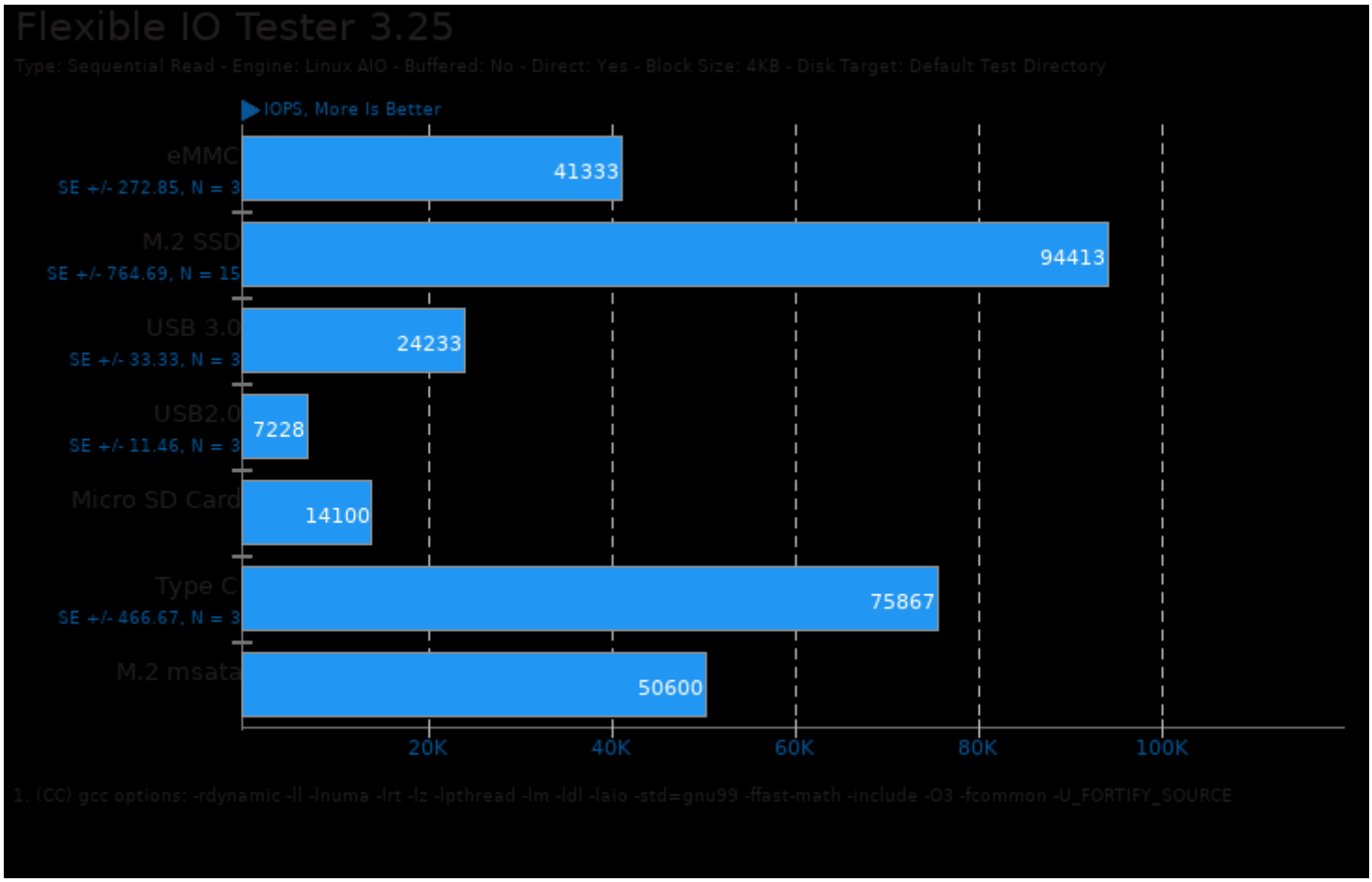
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (MB/s)	137	282	**38.6**	48.4	66.8	**285**			104
Normalized	48.07%	98.95%	13.54%	16.98%	23.44%	100%			36.49%
Standard Deviation	1.5%		0.5%	1%	0.2%				2.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (IOPS)	14	**32**	**2**	3	5	**32**			10
Normalized	43.75%	100%	6.25%	9.38%	15.63%	100%			31.25%
Standard Deviation									5.8%
GLmark2 - 800 x 600 (Score)								4808	
GLmark2 - 1024 x 768 (Score)								4116	
GLmark2 - 1280 x 1024 (Score)								3081	
GLmark2 - 1600 x 1200 (Score)								2450	
GLmark2 - 1920 x 1080 (Score)								2416	
GLmark2 - 1920 x 1200 (Score)								2255	
GLmark2 - 2560 x 1440 (Score)								1688	
GLmark2 - 3840 x 2160 (Score)								842	

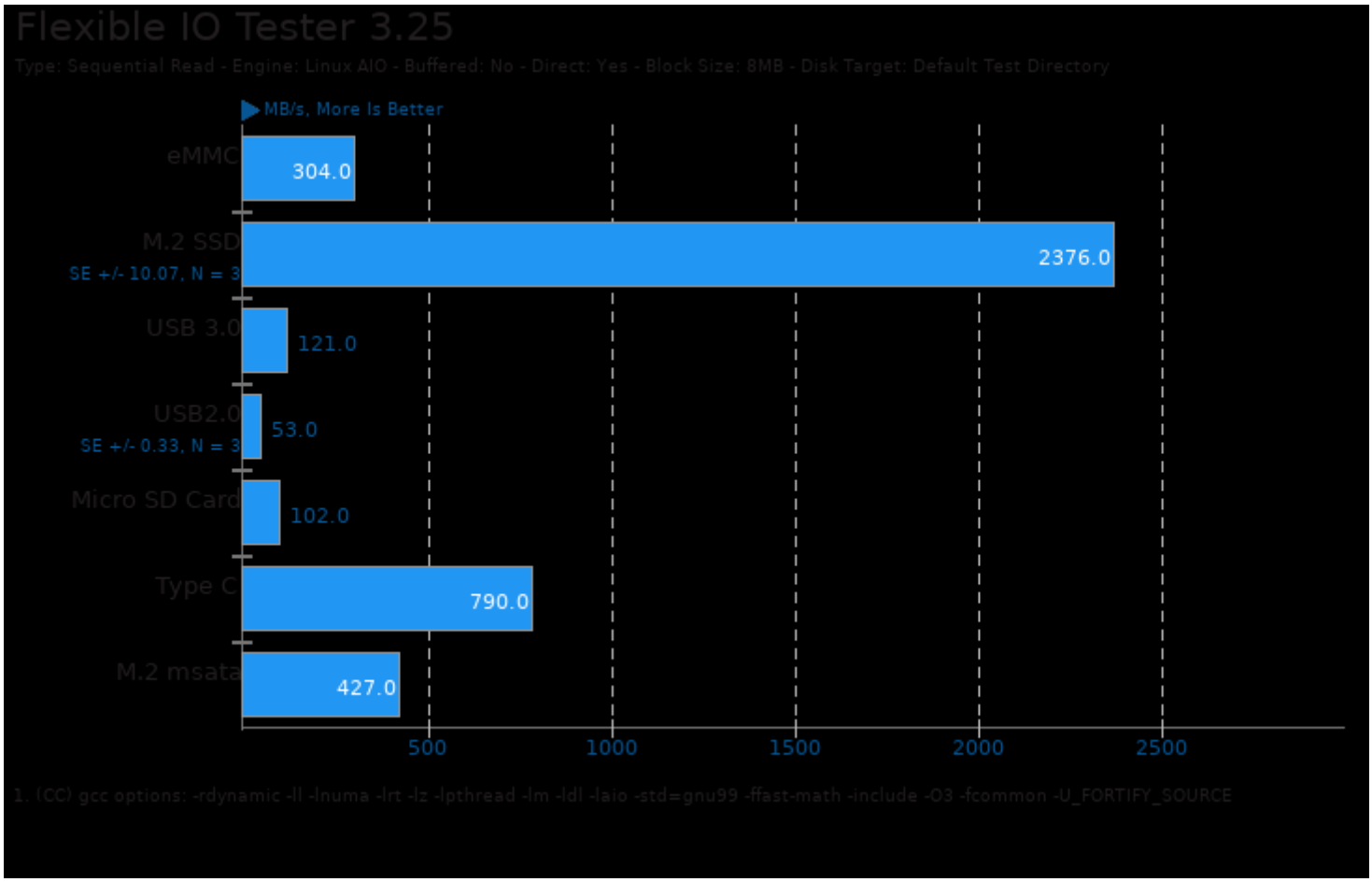
iPerf - 192.168.1.3 - 5201 - 10 Seconds - UDP - 100Mbit Objective - 1 (Mbits/s)			100	100	100	100
iPerf - 192.168.1.3 - 5201 - 10 Seconds - UDP - 1000Mbit Objective - 1 (Mbits/s)			947	**956**	**956**	**129**
Normalized			99.06%	100%	100%	13.49%
Standard Deviation			0.2%			15.9%
Stream - Copy (MB/s)		48644				
Standard Deviation		0.3%				
Stream - Scale (MB/s)		49412				
Standard Deviation		0.1%				
Stream - Triad (MB/s)		48398				
Standard Deviation		0.5%				
Stream - Add (MB/s)		48764				
Standard Deviation		0.6%				
Stress-NG - Crypto (Bogo Ops/s)	1190					
Standard Deviation	1.1%					
Stress-NG - Forking (Bogo Ops/s)	6591					
Standard Deviation	1.5%					
Stress-NG - CPU Stress (Bogo Ops/s)	766.0 0					
Standard Deviation	29.2%					

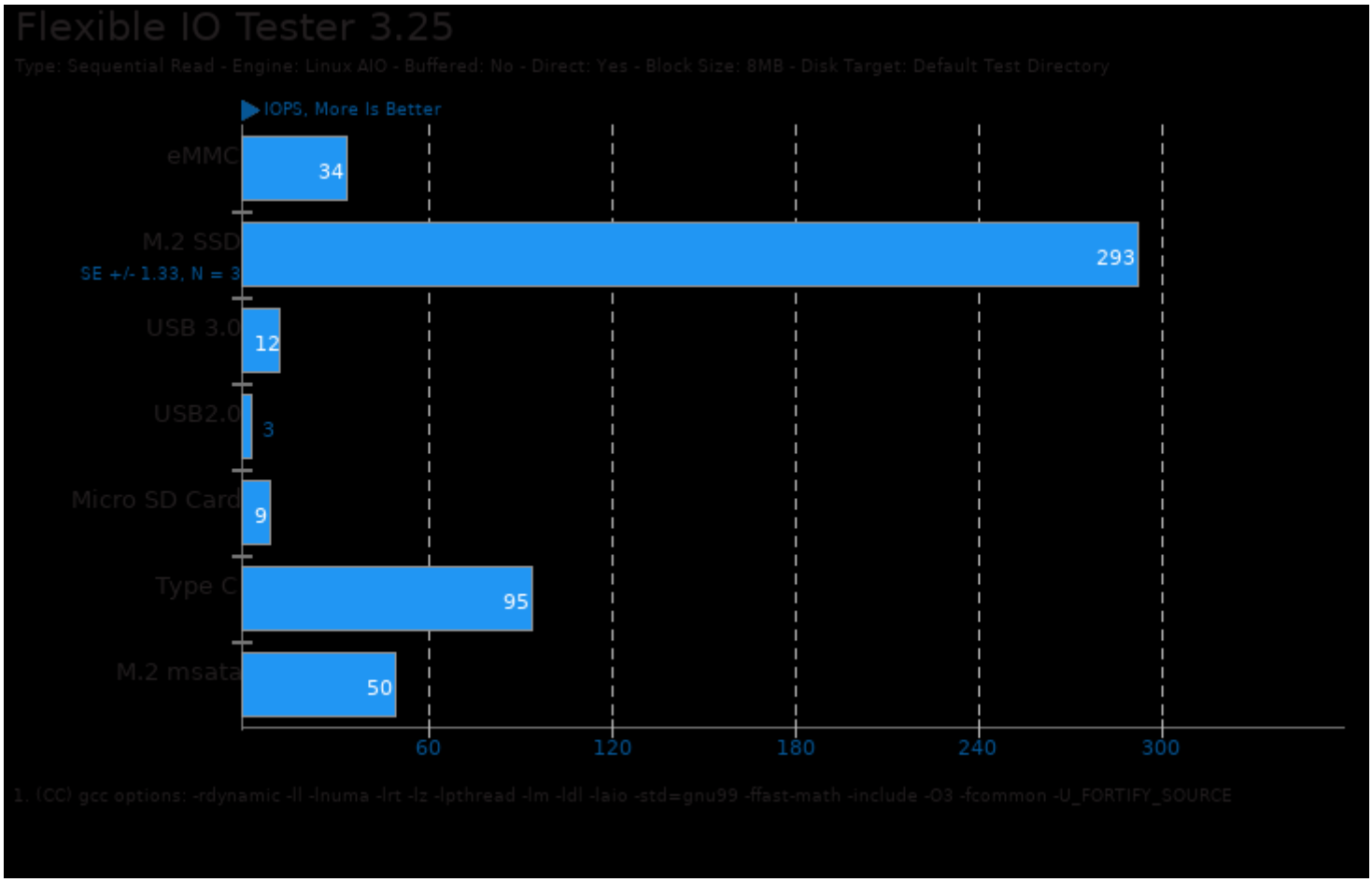
Stress-NG - Matrix Math (Bogo Ops/s)	6288
Standard Deviation	0.4%
Stress-NG - Vector Math (Bogo Ops/s)	24875
Standard Deviation	0.4%
Stress-NG - Memory Copying (Bogo Ops/s)	1761
Standard Deviation	0.2%
Stress-NG - G.C.S.F (Bogo Ops/s)	11561 2
Standard Deviation	3.2%
Stress-NG - G.Q.D.S (Bogo Ops/s)	20.34
Standard Deviation	3%

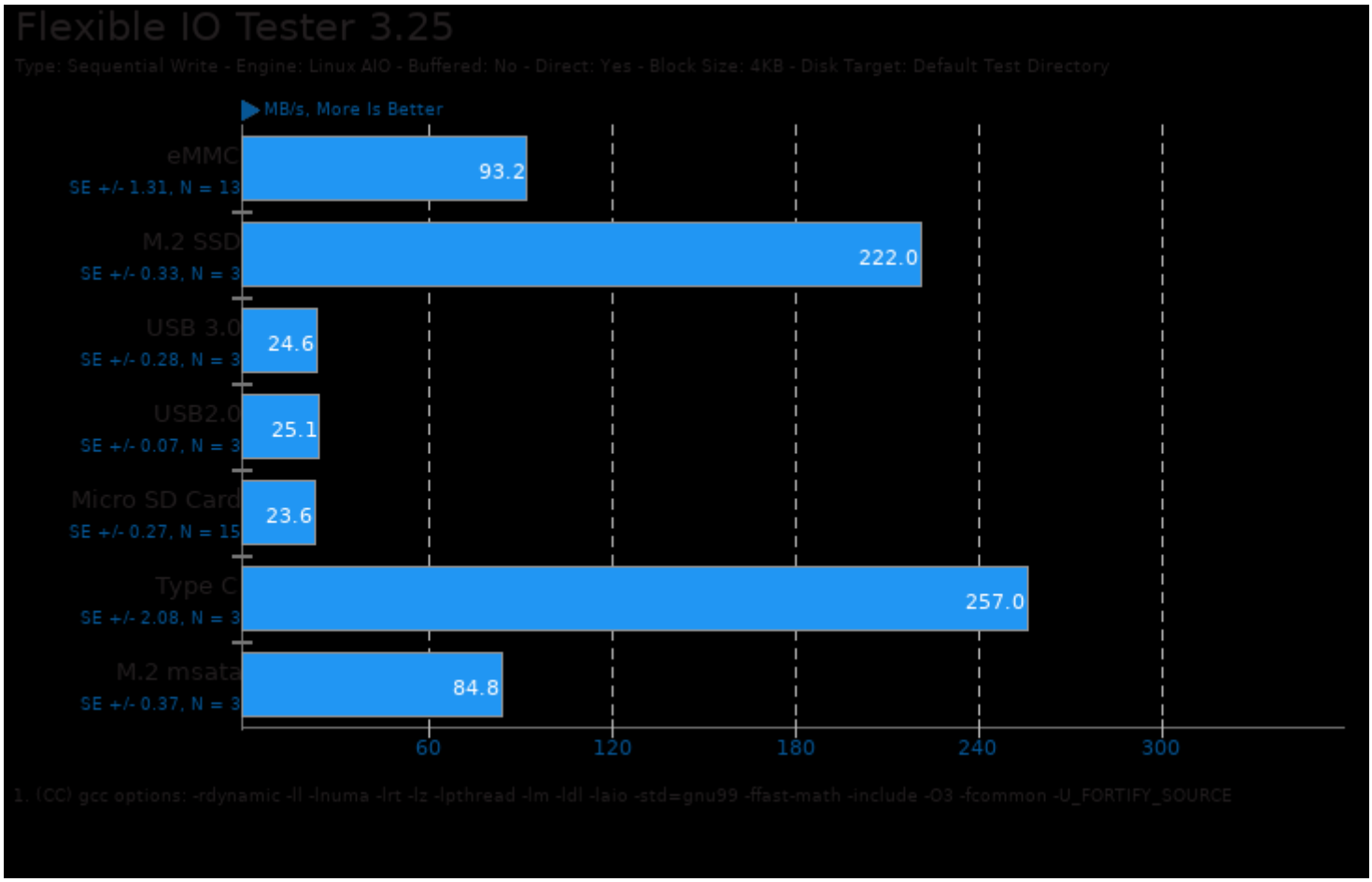

CUDA Mini-Nbody 2015-11-10
Test: Original
(NBody^2)/s, More Is Better
CUDA Test
SE +/- 0.00, N = 3
35.80
8
16
24
32
40
CUDA Mini-Nbody 2015-11-10
Test: Cache Blocking
(NBody^2)/s, More Is Better
CUDA Test
SE +/- 0.00, N = 3
36.86
8
16
24
32
40
CUDA Mini-Nbody 2015-11-10
Test: Loop Unrolling
(NBody^2)/s, More Is Better
CUDA Test
SE +/- 0.00, N = 3
36.92
8
16
24
32
40
CUDA Mini-Nbody 2015-11-10
Test: SOA Data Layout
(NBody^2)/s, More Is Better
CUDA Test
SE +/- 0.00, N = 3
36.68
8
16
24
32
40
CUDA Mini-Nbody 2015-11-10
Test: Flush Denormals To Zero
(NBody^2)/s, More Is Better
CUDA Test
SE +/- 0.00, N = 3
36.68
8
16
24
32
40

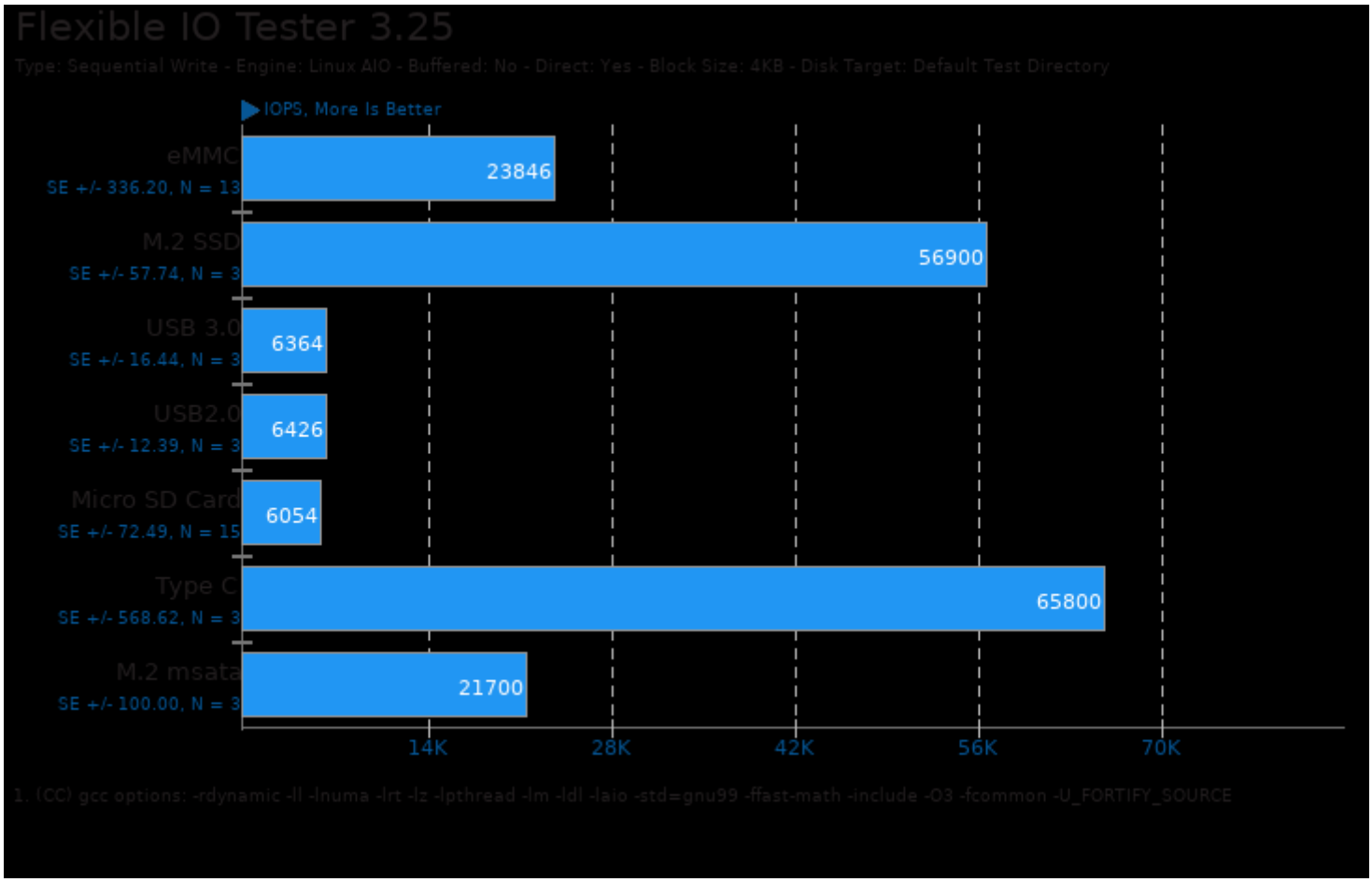

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
eMMC
SE +/- 0.88, N = 3
162.0
M.2 SSD
SE +/- 3.02, N = 15
369.0
USB 3.0
SE +/- 0.09, N = 3
94.5
USB2.0
SE +/- 0.03, N = 3
28.2
Micro SD Card
SE +/- 0.03, N = 3
55.2
Type C
SE +/- 1.15, N = 3
299.0
M.2 msata
SE +/- 0.58, N = 3
199.0
80
160
240
320
400
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

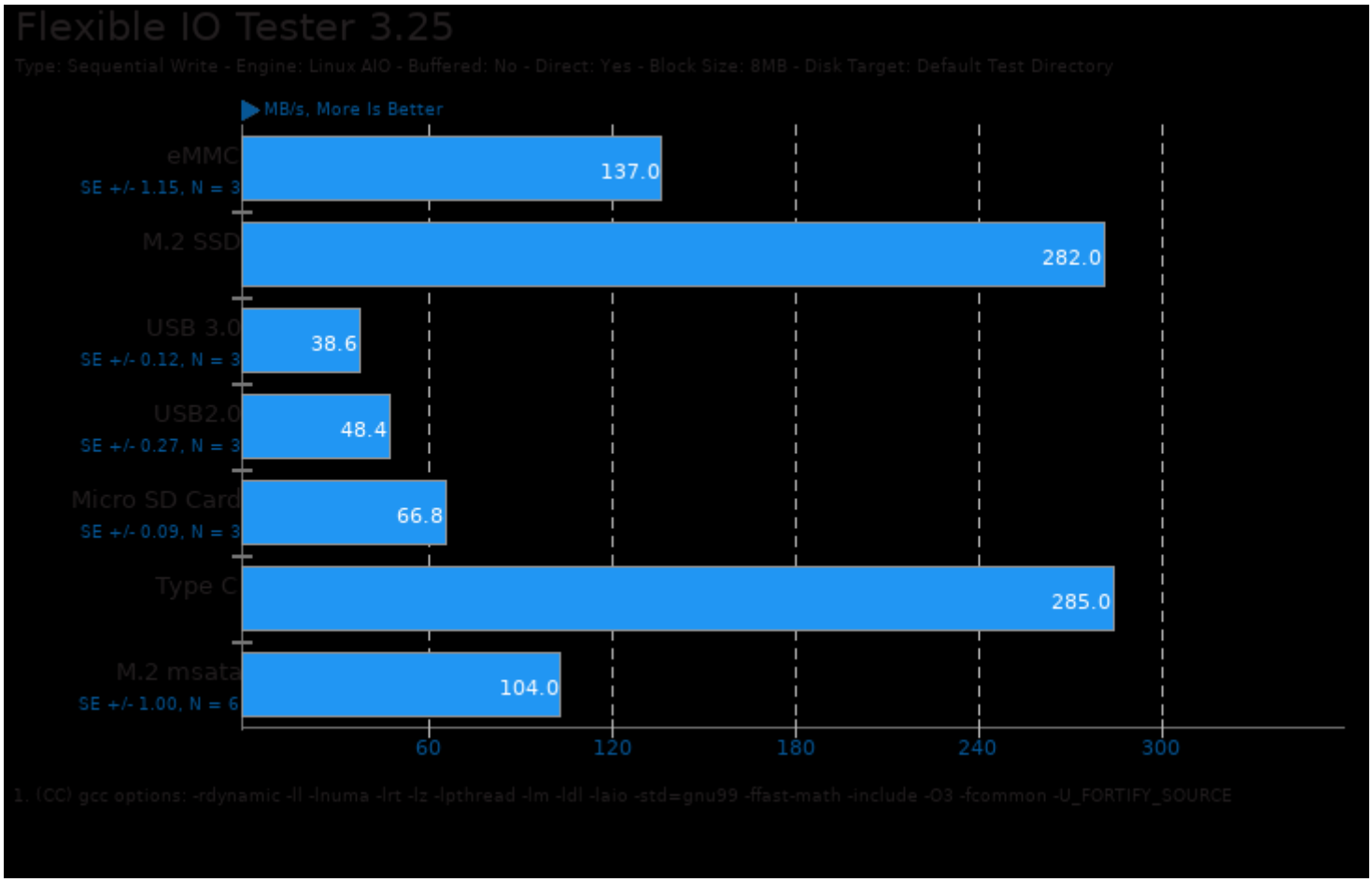

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
eMMC
SE +/- 272.85, N = 3
41333
M.2 SSD
SE +/- 764.69, N = 15
94413
USB 3.0
SE +/- 33.33, N = 3
24233
USB2.0
SE +/- 11.46, N = 3
7228
Micro SD Card
14100
Type C
SE +/- 466.67, N = 3
75867
M.2 msata
50600
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

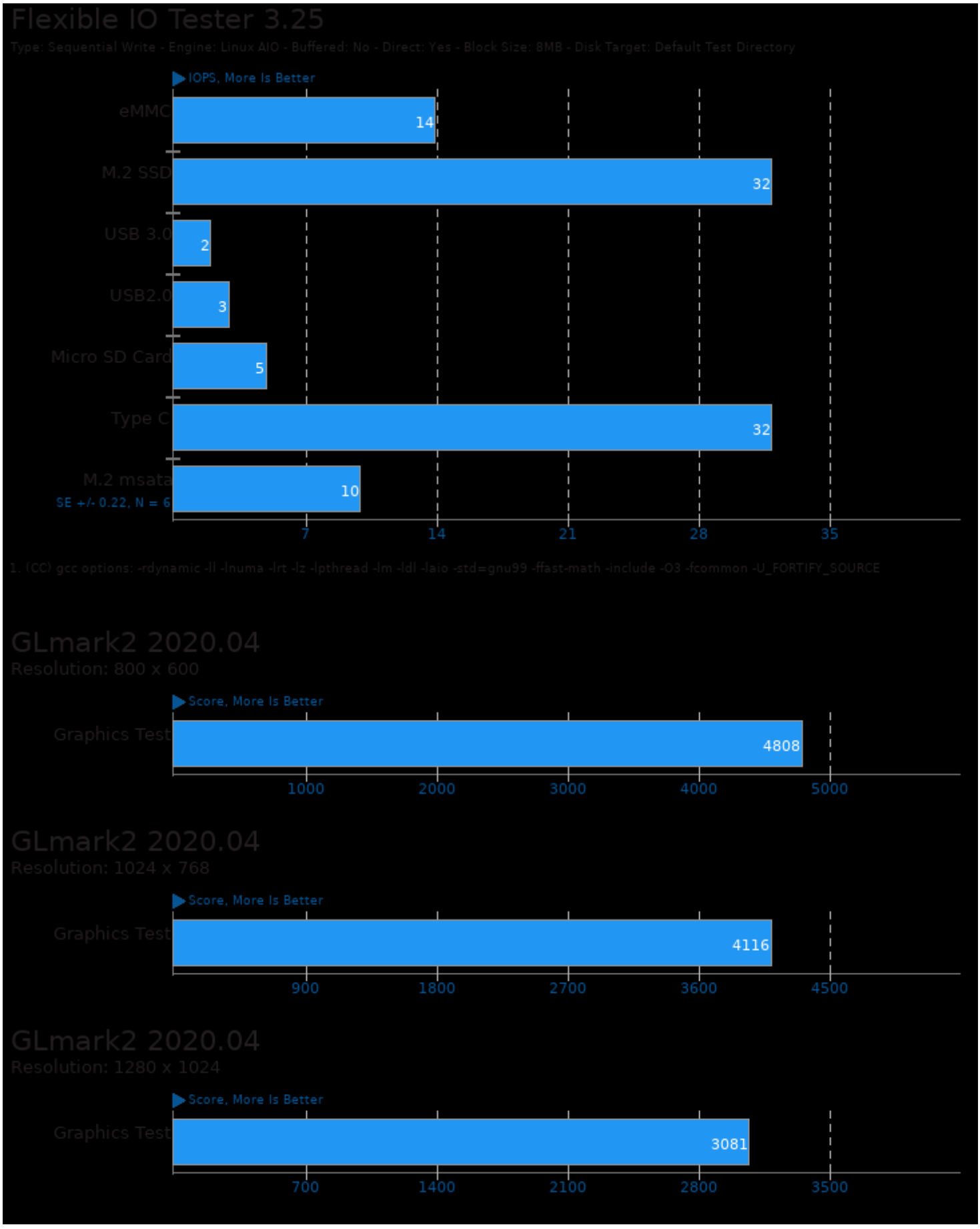

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
eMMC
304.0
M.2 SSD
SE +/- 10.07, N = 3
2376.0
USB 3.0
121.0
USB2.0
SE +/- 0.33, N = 3
53.0
Micro SD Card
102.0
Type C
790.0
M.2 msata
427.0
500
1000
1500
2000
2500
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

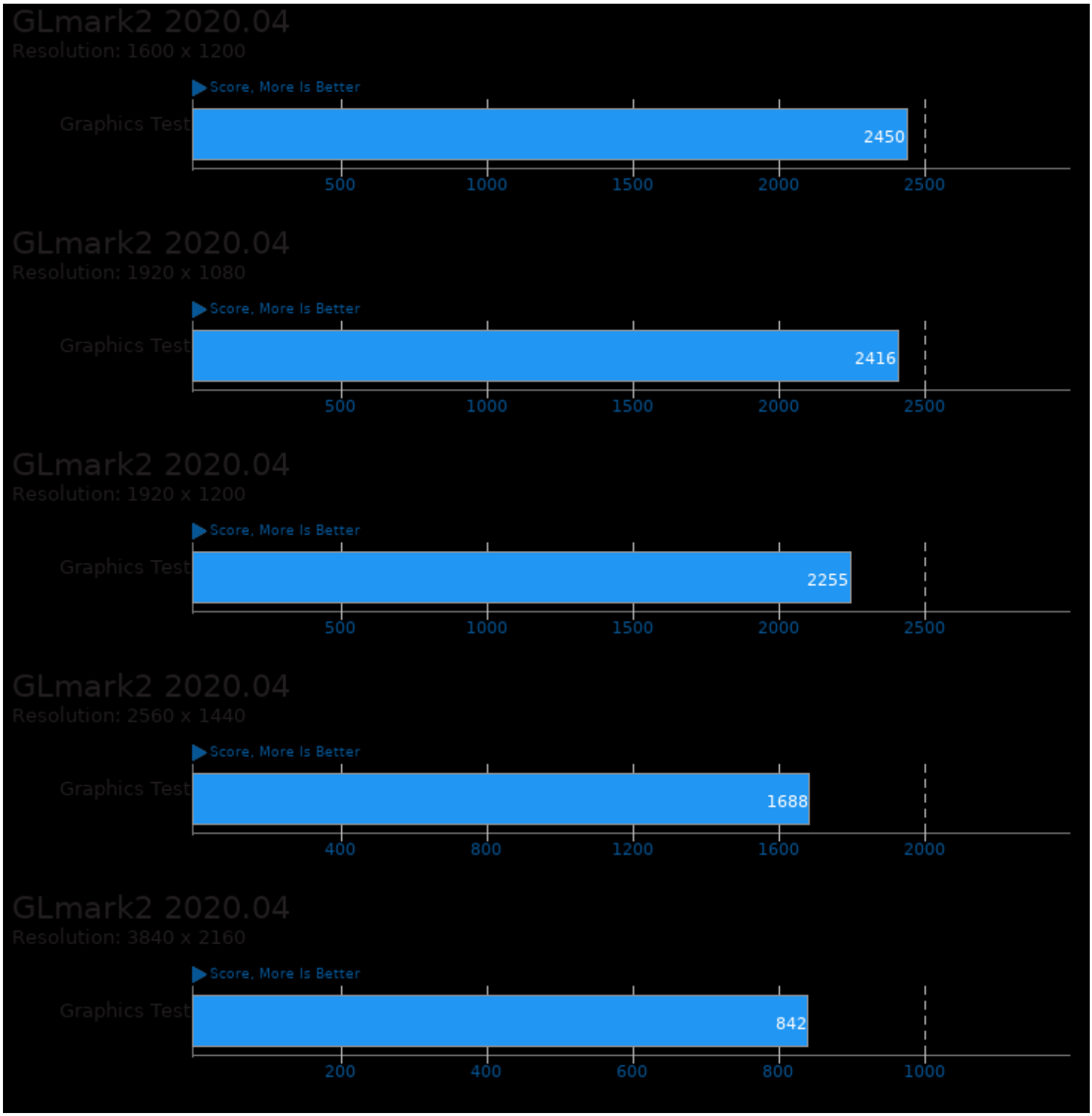

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
eMMC
34
M.2 SSD
293
SE +/- 1.33, N = 3
USB 3.0
12
USB2.0
3
Micro SD Card
9
Type C
95
M.2 msata
50
60
120
180
240
300
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

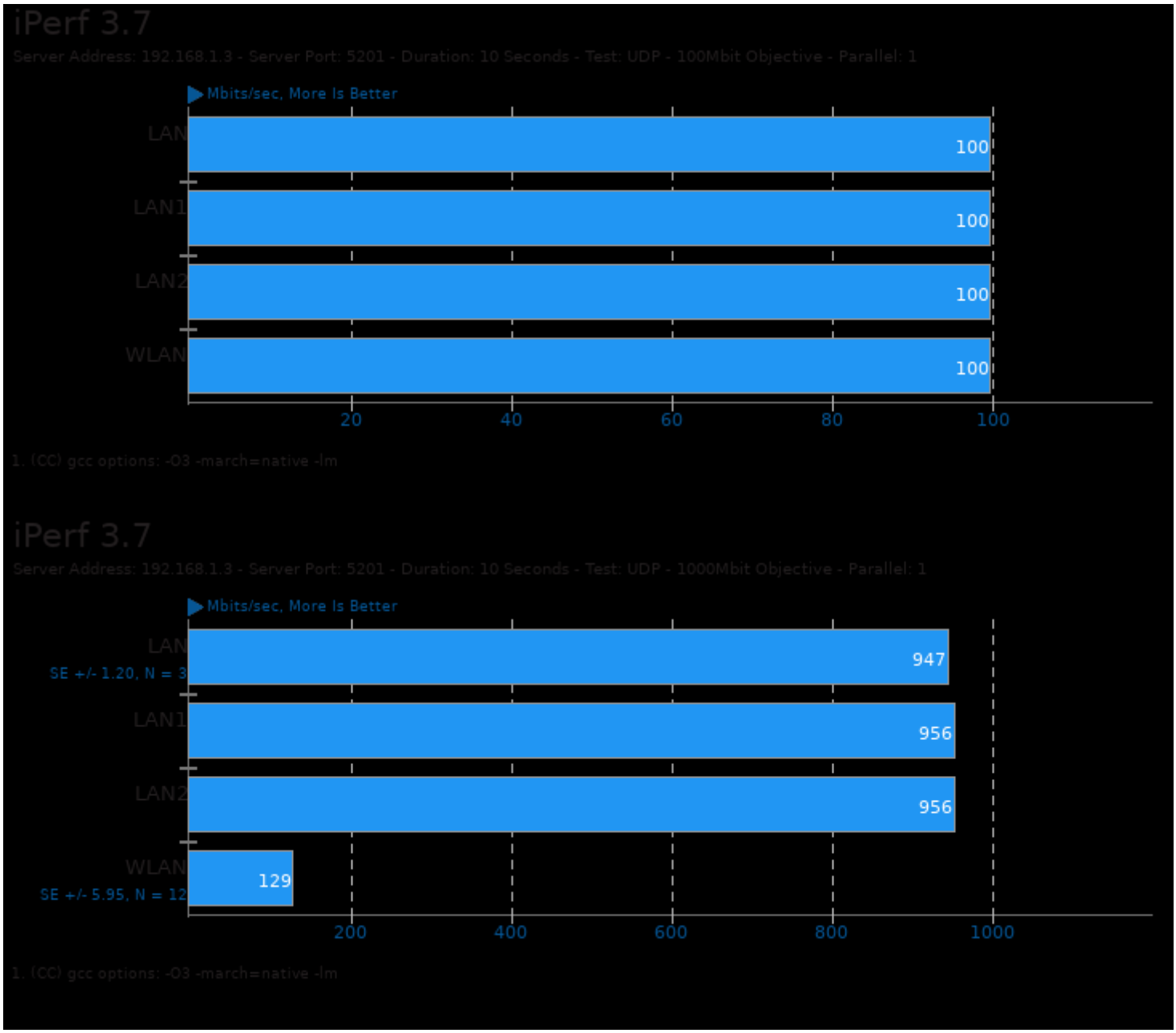

Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
eMMC
SE +/- 1.31, N = 13
93.2
M.2 SSD
SE +/- 0.33, N = 3
222.0
USB 3.0
SE +/- 0.28, N = 3
24.6
USB2.0
SE +/- 0.07, N = 3
25.1
Micro SD Card
SE +/- 0.27, N = 15
23.6
Type C
SE +/- 2.08, N = 3
257.0
M.2 msata
SE +/- 0.37, N = 3
84.8
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
eMMC
SE +/- 336.20, N = 13
23846
M.2 SSD
SE +/- 57.74, N = 3
56900
USB 3.0
SE +/- 16.44, N = 3
6364
USB2.0
SE +/- 12.39, N = 3
6426
Micro SD Card
SE +/- 72.49, N = 15
6054
Type C
SE +/- 568.62, N = 3
65800
M.2 msata
SE +/- 100.00, N = 3
21700
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
eMMC
SE +/- 1.15, N = 3
137.0
M.2 SSD
282.0
USB 3.0
SE +/- 0.12, N = 3
38.6
USB2.0
SE +/- 0.27, N = 3
48.4
Micro SD Card
SE +/- 0.09, N = 3
66.8
Type C
285.0
M.2 msata
SE +/- 1.00, N = 6
104.0
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

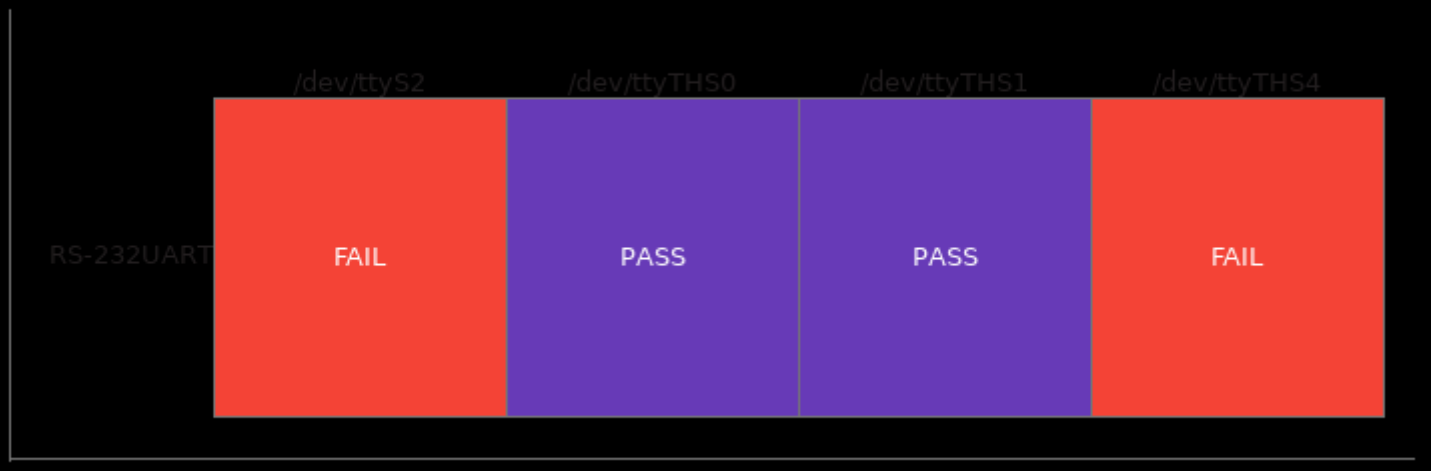

Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
eMMC
14
M.2 SSD
32
USB 3.0
2
USB2.0
3
Micro SD Card
5
Type C
32
M.2 msata
10
SE +/- 0.22, N = 6
7
14
21
28
35
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
GLmark2 2020.04
Resolution: 800 x 600
Score, More Is Better
Graphics Test
4808
1000
2000
3000
4000
5000
GLmark2 2020.04
Resolution: 1024 x 768
Score, More Is Better
Graphics Test
4116
900
1800
2700
3600
4500
GLmark2 2020.04
Resolution: 1280 x 1024
Score, More Is Better
Graphics Test
3081
700
1400
2100
2800
3500


GLmark2 2020.04
Resolution: 1600 x 1200
Score, More Is Better
Graphics Test
2450
500
1000
1500
2000
2500
GLmark2 2020.04
Resolution: 1920 x 1080
Score, More Is Better
Graphics Test
2416
500
1000
1500
2000
2500
GLmark2 2020.04
Resolution: 1920 x 1200
Score, More Is Better
Graphics Test
2255
500
1000
1500
2000
2500
GLmark2 2020.04
Resolution: 2560 x 1440
Score, More Is Better
Graphics Test
1688
400
800
1200
1600
2000
GLmark2 2020.04
Resolution: 3840 x 2160
Score, More Is Better
Graphics Test
842
200
400
600
800
1000


iPerf 3.7
Server Address: 192.168.1.3 - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 100Mbit Objective - Parallel: 1
Mbits/sec, More Is Better
LAN
LAN1
LAN2
WLAN
100
100
100
100
20
40
60
80
100
1. (CC) gcc options: -O3 -march=native -lm
iPerf 3.7
Server Address: 192.168.1.3 - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 1000Mbit Objective - Parallel: 1
Mbits/sec, More Is Better
LAN
SE +/- 1.20, N = 3
LAN1
LAN2
WLAN
SE +/- 5.95, N = 12
947
956
956
129
200
400
600
800
1000
1. (CC) gcc options: -O3 -march=native -lm

Serial Loopback Test

/dev/ttyS2, /dev/ttyTHS0, /dev/ttyTHS1, /dev/ttyTHS4



Stream 2013-01-17

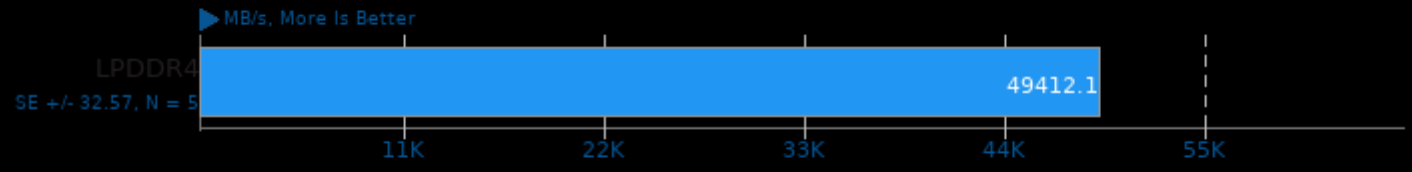
Type: Copy



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

Stream 2013-01-17

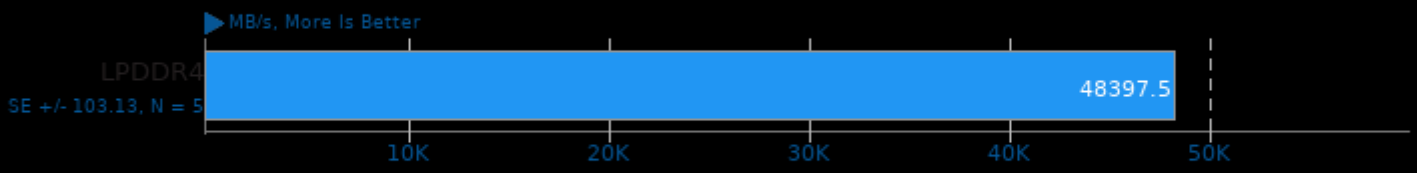
Type: Scale



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

Stream 2013-01-17

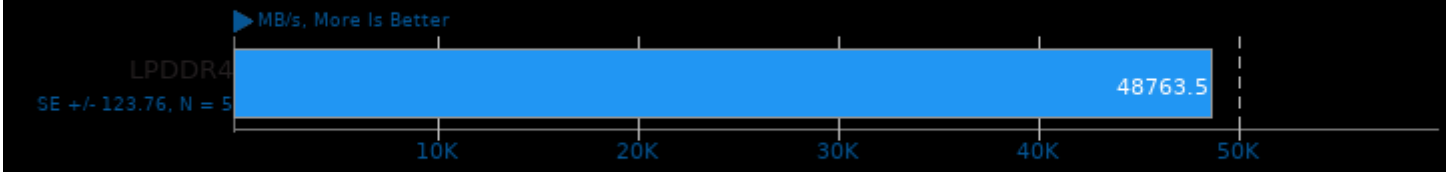
Type: Triad



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

Stream 2013-01-17

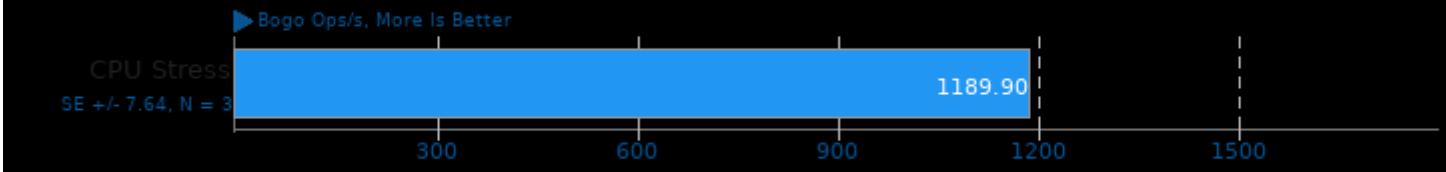
Type: Add



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

Stress-NG 0.11.07

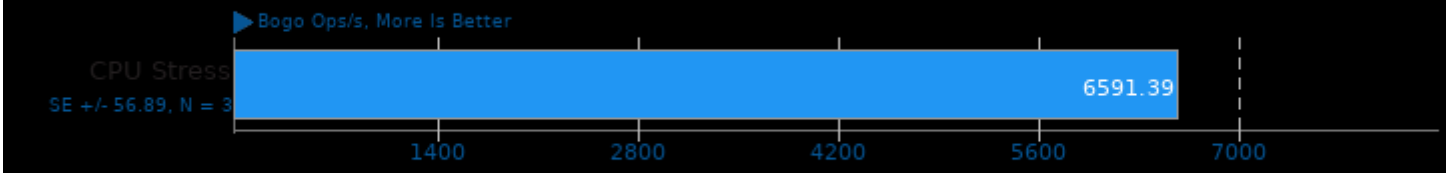
Test: Crypto



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

Stress-NG 0.11.07

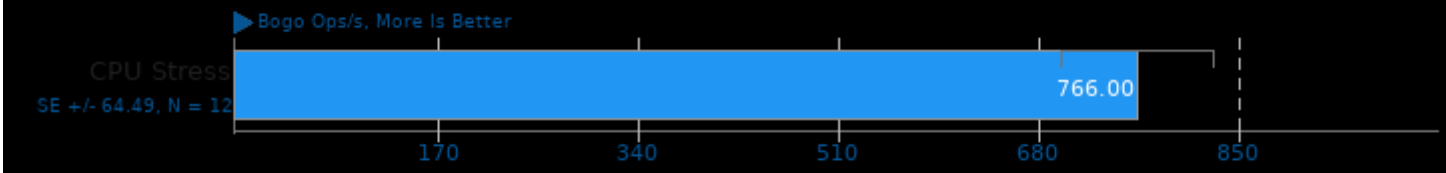
Test: Forking



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

Stress-NG 0.11.07

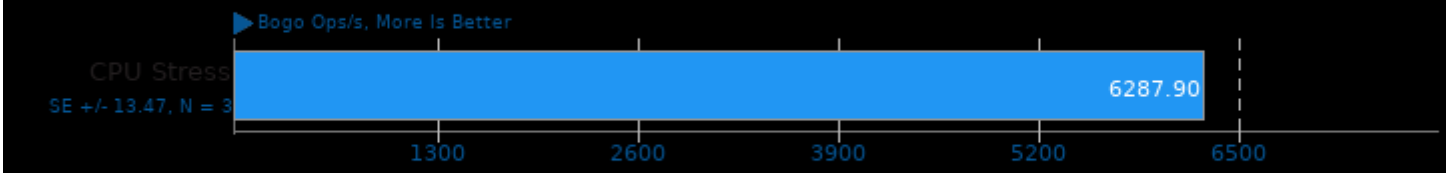
Test: CPU Stress



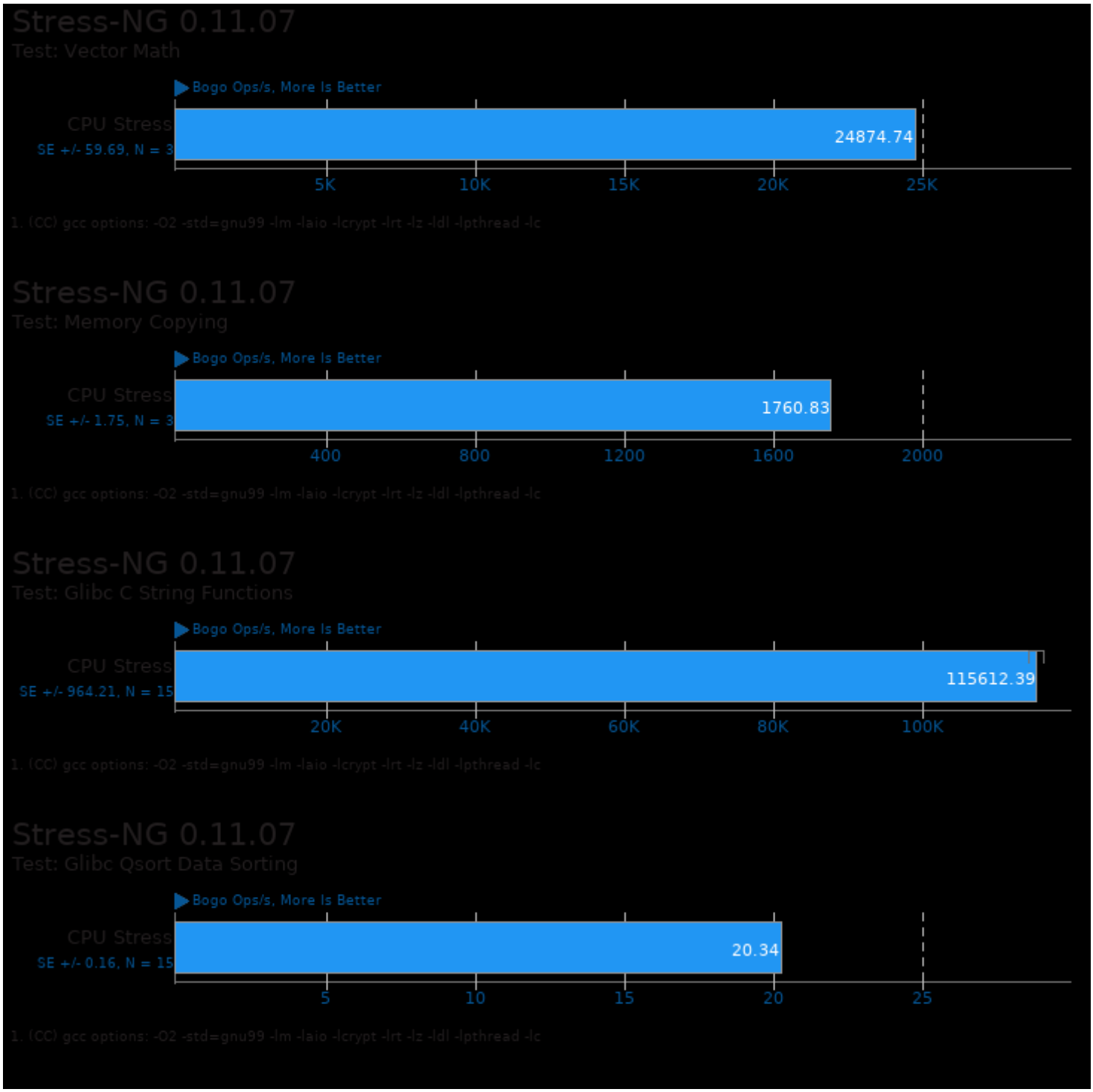
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: Matrix Math



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



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