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R32_5_1_xavier_AX720

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

Automated Executive Summary

M.2 SSD had the most wins, coming in first place for 50% of the tests.

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

Flexible IO Tester (Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory) at 73.667x
Flexible IO Tester (Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory) at 67.5x
Flexible IO Tester (Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory) at 33.97x
Flexible IO Tester (Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory) at 28.601x
Flexible IO Tester (Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory) at 13.949x
Flexible IO Tester (Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory) at 13.936x
Flexible IO Tester (Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk

Target: Default Test Directory) at 11.477x
Flexible IO Tester (Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory) at 11.458x
Stress-NG (Test: Crypto) at 1x
Stress-NG (Test: Forking) at 1x.

Test Systems:

M.2 SSD

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 32GB, Disk: 960GB M.2 (P80) 3TE6 + 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA TEGRA, Monitor: LG Ultra HD

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: none / data=ordered,discard,errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

eMMC

eMMC1

USB3.0

USB2.0

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 32GB, Disk: 960GB M.2 (P80) 3TE6 + 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA TEGRA, Monitor: LG Ultra HD

OS: Ubuntu 18.04, Kernel: 4.9.201-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: none / data=ordered,discard,errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

Micro SD

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 32GB, Disk: 960GB M.2 (P80) 3TE6 + 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA TEGRA, Monitor: LG Ultra HD

OS: Ubuntu 18.04, Kernel: 4.9.201-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: fuseblk, 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,discard,errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

Type C

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 32GB, Disk: 960GB M.2 (P80) 3TE6 + 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA TEGRA, Monitor: LG Ultra HD

OS: Ubuntu 18.04, Kernel: 4.9.201-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: none / data=ordered,discard,errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

CPU Stress

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 32GB, Disk: 960GB M.2 (P80) 3TE6 + 8GB USB Drive 2SE + 62GB Ultra USB 3.0 + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: EDIIG0219

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

CUDA Test

CUDA Test 1

LPDDR4

LAN

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 32GB, Disk: 960GB M.2 (P80) 3TE6 + 62GB Ultra USB 3.0 + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: EDIIG0219

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

WLAN

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 32GB, Disk: 960GB M.2 (P80) 3TE6 + 31GB HBG4a2, Graphics: NVIDIA Tegra Xavier, 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

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

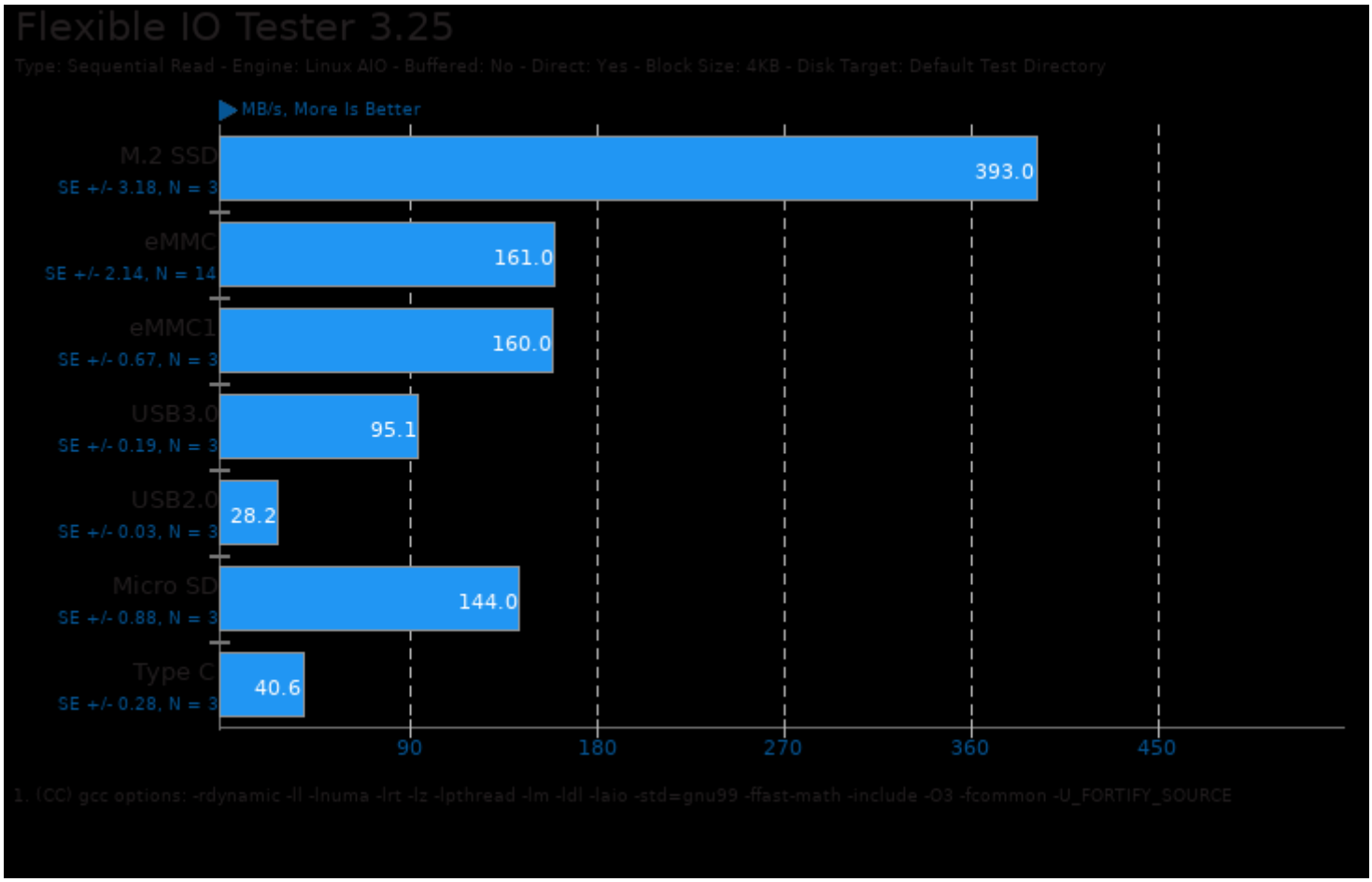
	M.2 SSD	eMMC	eMMC 1	USB3.0	USB2.0	Micro SD	Type C	CPU Stress	CUDA Test	CUDA Test 1	LPDDR4	LAN	WLAN
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	393	161	160	95.1	28.2	144	40.6						
Normalized	100%	40.97%	40.71%	24.2%	7.18%	36.64%	10.33%						
Standard Deviation	1.4%	5%	0.7%	0.3%	0.2%	1.1%	1.2%						
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	100700	41264	40867	24367	7219	36833	10467						
Normalized	100%	40.98%	40.58%	24.2%	7.17%	36.58%	10.39%						
Standard Deviation	1.5%	5%	0.9%	0.5%	0.2%	1%	0.6%						
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (MB/s)	1602	311	302	121	52.9	1797	66.3						
Normalized	89.15%	17.31%	16.81%	6.73%	2.94%	100%	3.69%						
Standard Deviation	0.1%	2.5%	2.1%		0.6%	0.3%	0.2%						

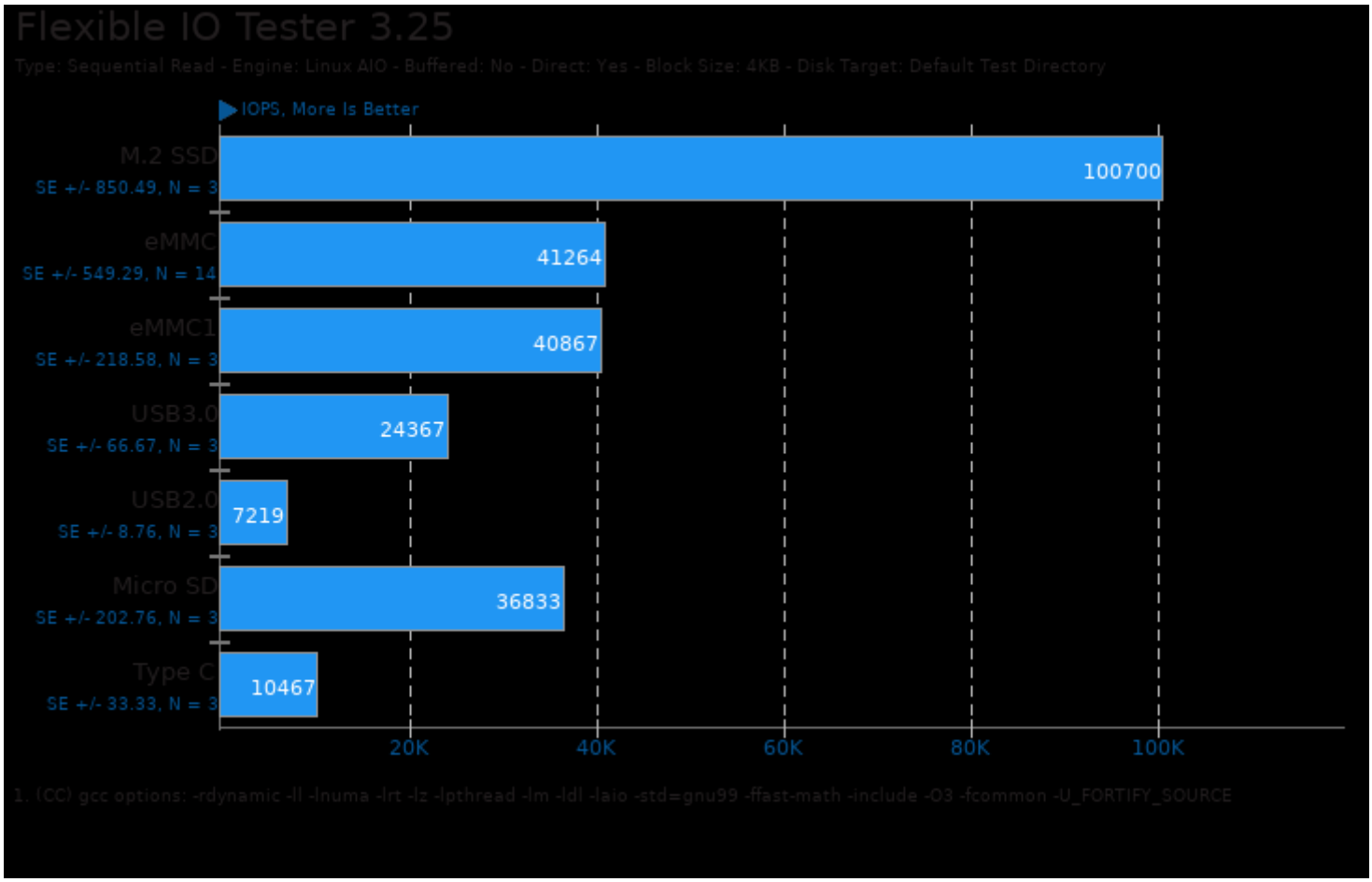
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (IOPS)	197	35	34	12	**3**	**221**	5	
Normalized	89.14%	15.84%	15.38%	5.43%	1.36%	100%	2.26%	
Standard Deviation			1.7%			0.5%		
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	**272**	96.3	94.0	**23.7**	24.7	57.1	40.4	
Normalized	100%	35.4%	34.56%	8.71%	9.08%	20.99%	14.85%	
Standard Deviation	6.6%	0.1%	2.2%	2.3%	1.2%	1%	0.3%	
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	**69573**	24667	24100	**6072**	6330	14600	10367	
Normalized	100%	35.45%	34.64%	8.73%	9.1%	20.99%	14.9%	
Standard Deviation	6.4%	0.2%	2.2%	2.3%	1.2%	0.7%	0.6%	
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (MB/s)	1090	136	136	**38.6**	49.1	**1104**	66.3	
Normalized	98.73%	12.32%	12.32%	3.5%	4.45%	100%	6.01%	
Standard Deviation	0.6%			1.6%	1.6%	51.5%	0%	
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (IOPS)	133	13	13	**2**	3	**135**	5	
Normalized	98.52%	9.63%	9.63%	1.48%	2.22%	100%	3.7%	
Standard Deviation	0.4%					52.9%		
Stress-NG - Crypto (Bogo Ops/s)								1204
Standard Deviation								0.9%
Stress-NG - Forking (Bogo Ops/s)								6387
Standard Deviation								2.2%
Stress-NG - CPU Stress (Bogo Ops/s)								843.36
Standard Deviation								2.3%

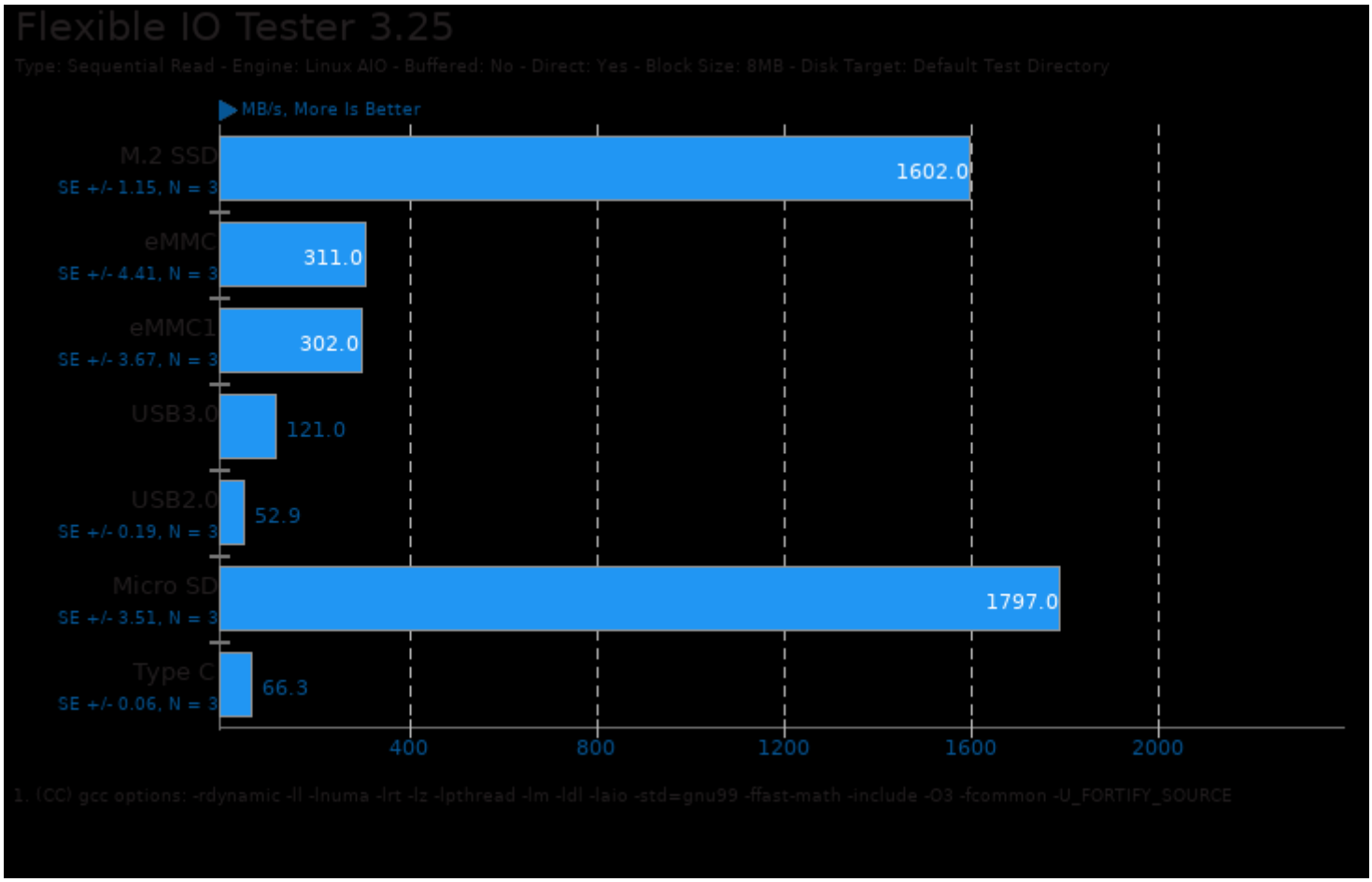
Stress-NG - Matrix Math (Bogo Ops/s)	12416			
Standard Deviation	0.4%			
Stress-NG - Vector Math (Bogo Ops/s)	50453			
Standard Deviation	0.1%			
Stress-NG - Memory Copying (Bogo	3283			
Standard Deviation	0.4%			
Stress-NG - G.C.S.F (Bogo Ops/s)	241144			
Standard Deviation	4.3%			
Stress-NG - G.Q.D.S (Bogo Ops/s)	56.90			
Standard Deviation	8%			
CUDA Mini-Nbody - Original ((NBody^2)/s)		54.417		
Standard Deviation		0.3%		
CUDA Mini-Nbody - Cache Blocking ((NBody^2)/s)		56.081		
Standard Deviation		0%		
CUDA Mini-Nbody - Loop Unrolling ((NBody^2)/s)		56.168		
Standard Deviation		0%		
CUDA Mini-Nbody - SOA Data Layout ((NBody^2)/s)		55.806		
Standard Deviation		0%		
CUDA Mini-Nbody - F.D.T.Z ((NBody^2)/s)		55.803		
Standard Deviation		0%		
Stream - Copy (MB/s)			68799	
Standard Deviation			0.6%	

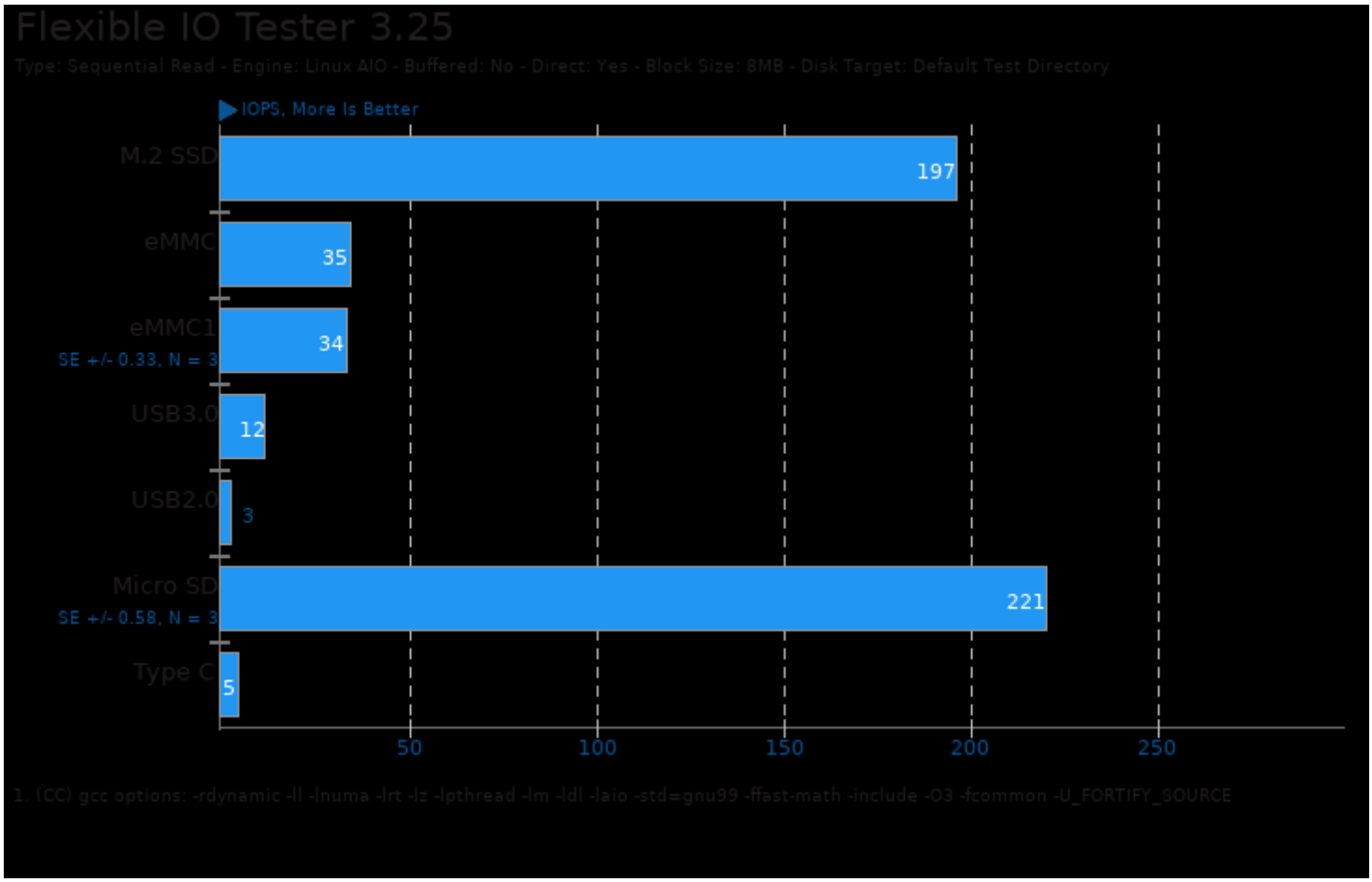
Stream - Scale (MB/s)	68417		
Standard Deviation	0.3%		
Stream - Triad (MB/s)	61480		
Standard Deviation	0.3%		
Stream - Add (MB/s)	61246		
Standard Deviation	0.3%		
iPerf - 192.168.1.4 - 5201 - 10 Seconds - UDP - 100Mbit Objective - 1 (Mbits/s)		100	
iPerf - 192.168.1.4 - 5201 - 10 Seconds - UDP - 1000Mbit Objective - 1 (Mbits/s)		949	
iPerf - 192.168.1.6 - 5201 - 10 Seconds - UDP - 100Mbit Objective - 1 (Mbits/s)			99.9
Standard Deviation			0.2%
iPerf - 192.168.1.6 - 5201 - 10 Seconds - UDP - 1000Mbit Objective - 1 (Mbits/s)			160
Standard Deviation			2%
iPerf - 192.168.1.6 - 5201 - 10 Seconds - TCP - 1 (Mbits/s)			132
Standard Deviation			9.1%

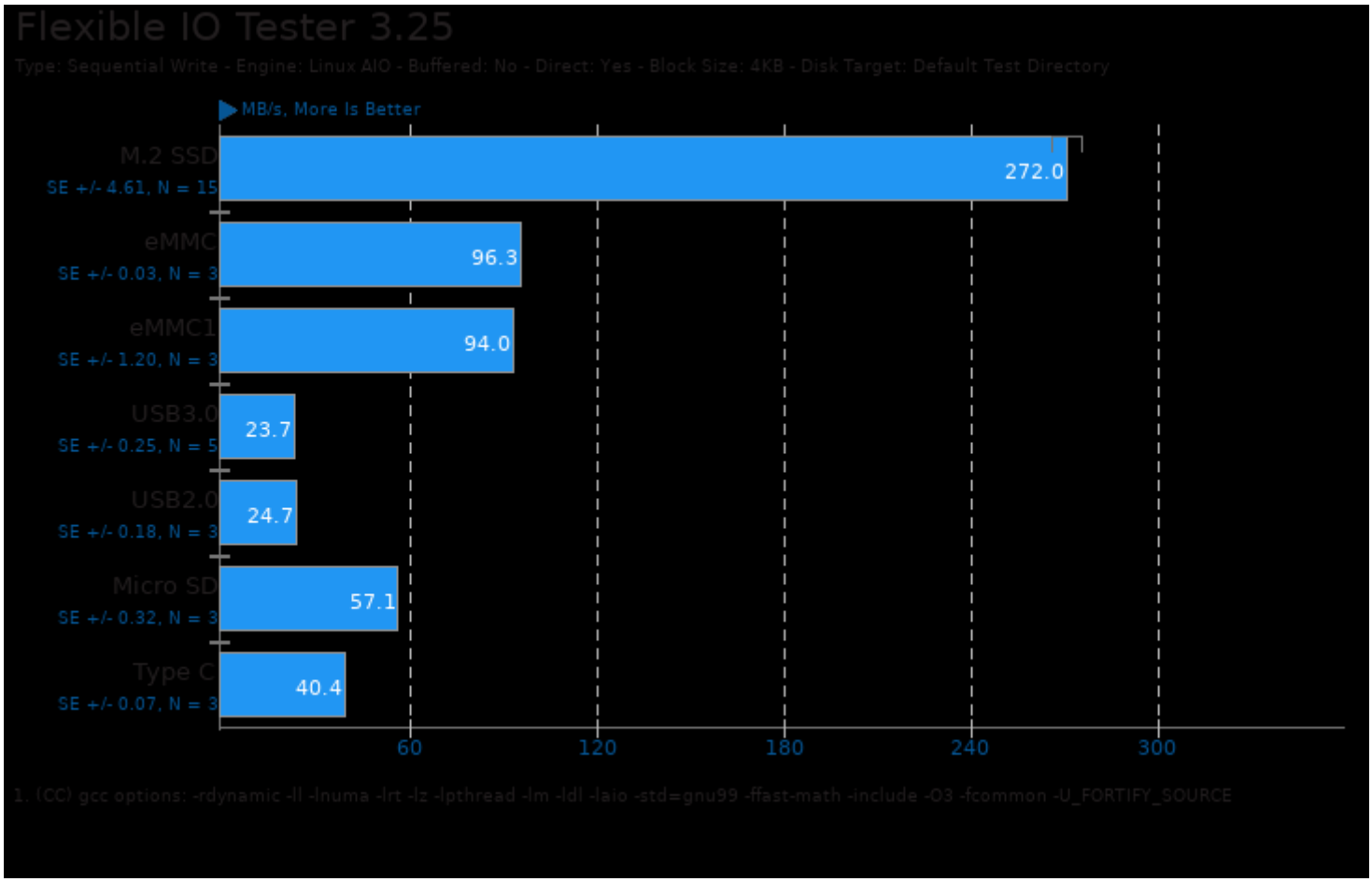
iPerf - 192.168.1.6 - 5201 - 10 Seconds - UDP - 1 (Mbits/s)	1.05
Standard Deviation	0%

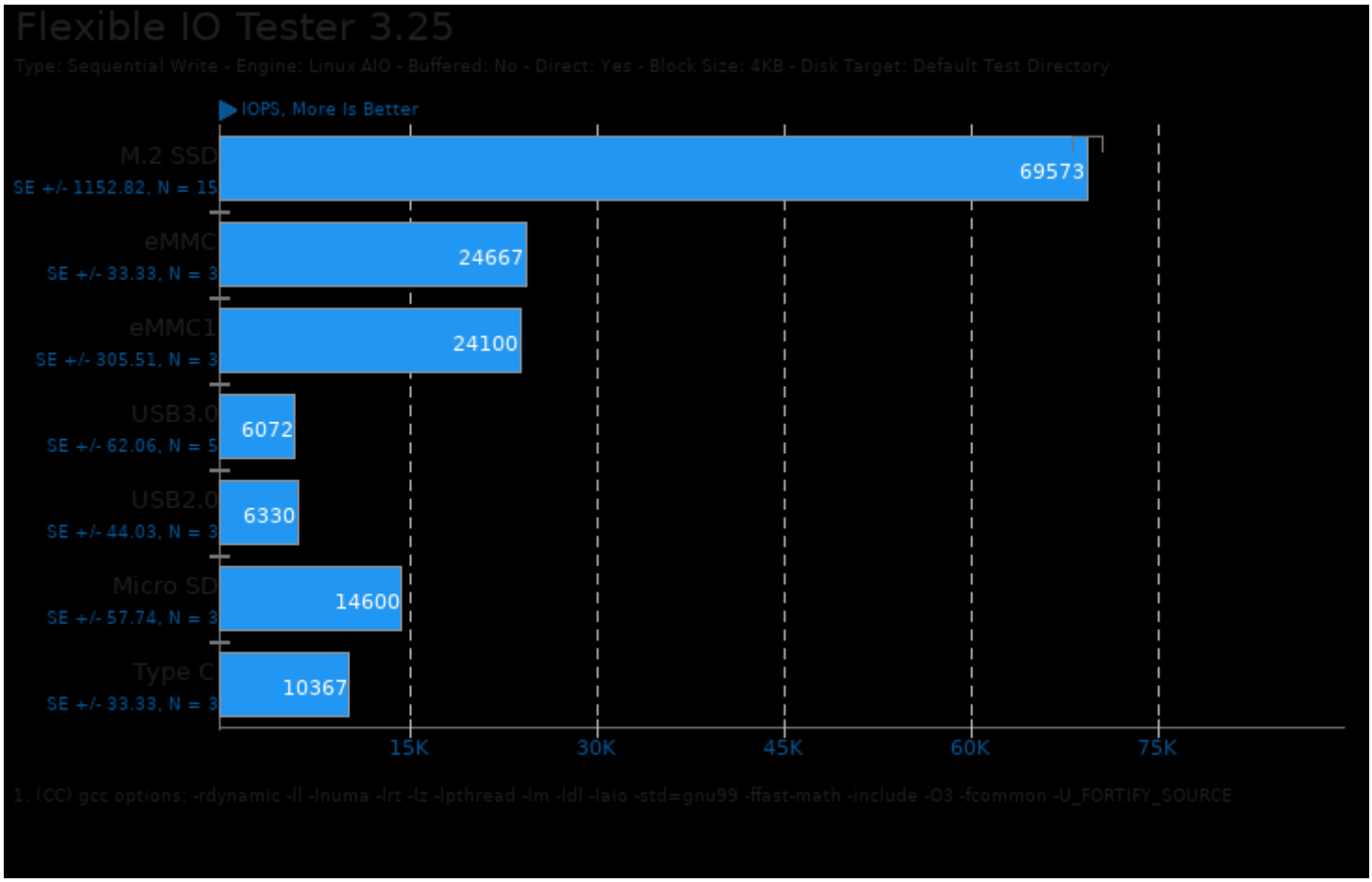

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
M.2 SSD
SE +/- 3.18, N = 3
393.0
eMMC
SE +/- 2.14, N = 14
161.0
eMMC1
SE +/- 0.67, N = 3
160.0
USB3.0
SE +/- 0.19, N = 3
95.1
USB2.0
SE +/- 0.03, N = 3
28.2
Micro SD
SE +/- 0.88, N = 3
144.0
Type C
SE +/- 0.28, N = 3
40.6
90
180
270
360
450
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

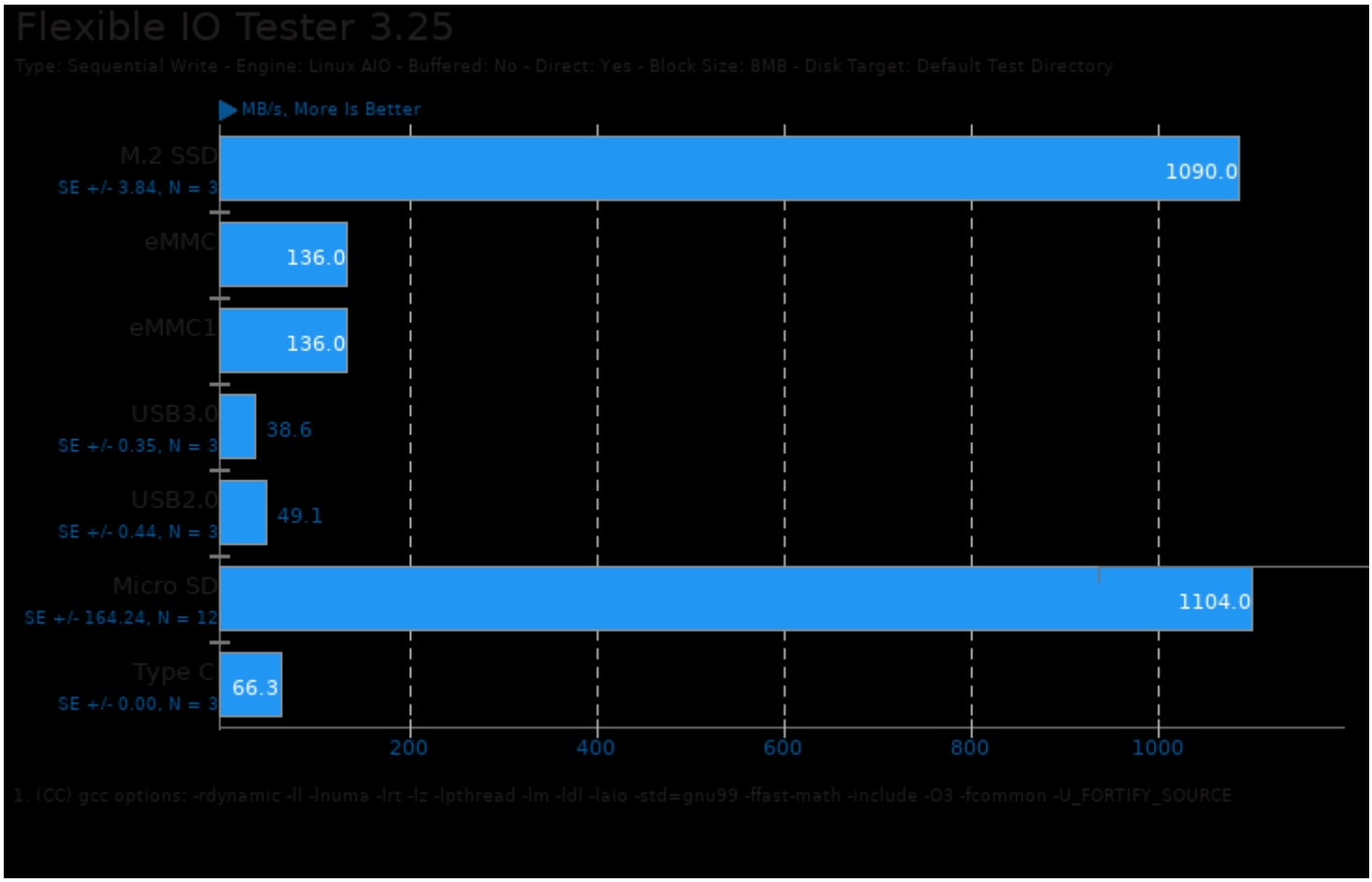

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
M.2 SSD
SE +/- 850.49, N = 3
100700
eMMC
SE +/- 549.29, N = 14
41264
eMMC1
SE +/- 218.58, N = 3
40867
USB3.0
SE +/- 66.67, N = 3
24367
USB2.0
SE +/- 8.76, N = 3
7219
Micro SD
SE +/- 202.76, N = 3
36833
Type C
SE +/- 33.33, N = 3
10467
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

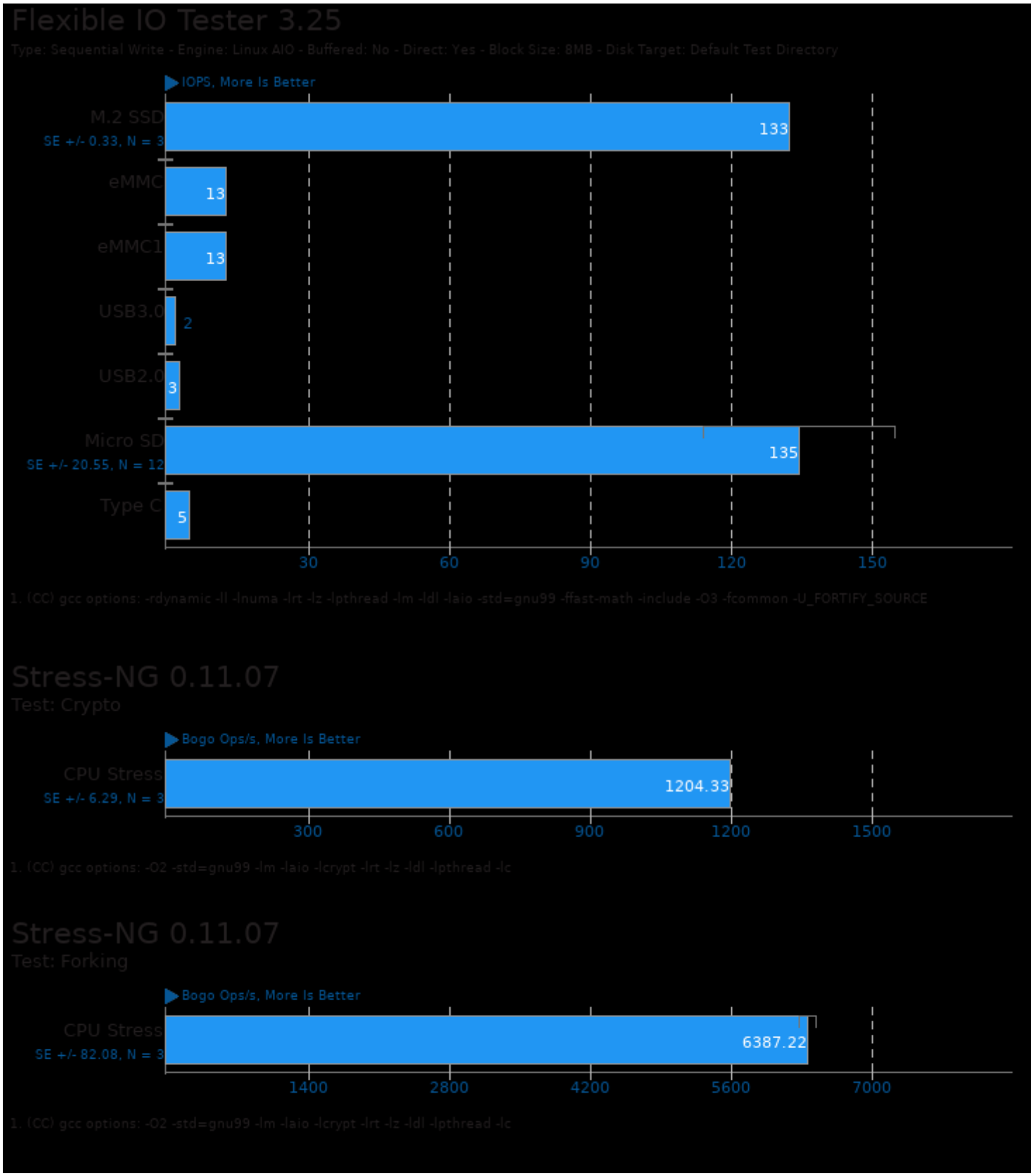

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
M.2 SSD
SE +/- 1.15, N = 3
1602.0
eMMC
SE +/- 4.41, N = 3
311.0
eMMC1
SE +/- 3.67, N = 3
302.0
USB3.0
121.0
USB2.0
SE +/- 0.19, N = 3
52.9
Micro SD
SE +/- 3.51, N = 3
1797.0
Type C
SE +/- 0.06, N = 3
66.3
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
M.2 SSD
197
eMMC
35
eMMC1
34
SE +/- 0.33, N = 3
USB3.0
12
USB2.0
3
Micro SD
221
SE +/- 0.58, N = 3
Type C
5
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
M.2 SSD
SE +/- 4.61, N = 15
272.0
eMMC
SE +/- 0.03, N = 3
96.3
eMMC1
SE +/- 1.20, N = 3
94.0
USB3.0
SE +/- 0.25, N = 5
23.7
USB2.0
SE +/- 0.18, N = 3
24.7
Micro SD
SE +/- 0.32, N = 3
57.1
Type C
SE +/- 0.07, N = 3
40.4
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

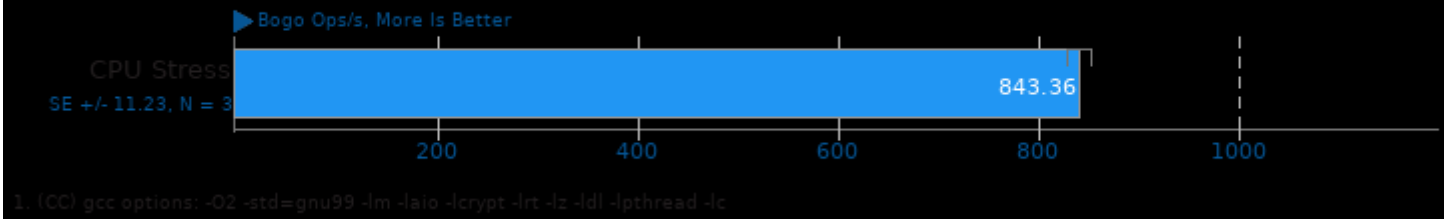

Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
M.2 SSD
SE +/- 1152.82, N = 15
69573
eMMC
SE +/- 33.33, N = 3
24667
eMMC1
SE +/- 305.51, N = 3
24100
USB3.0
SE +/- 62.06, N = 5
6072
USB2.0
SE +/- 44.03, N = 3
6330
Micro SD
SE +/- 57.74, N = 3
14600
Type C
SE +/- 33.33, N = 3
10367
15K
30K
45K
60K
75K
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
M.2 SSD
SE +/- 3.84, N = 3
1090.0
eMMC
136.0
eMMC1
136.0
USB3.0
SE +/- 0.35, N = 3
38.6
USB2.0
SE +/- 0.44, N = 3
49.1
Micro SD
SE +/- 164.24, N = 12
1104.0
Type C
SE +/- 0.00, N = 3
66.3
200
400
600
800
1000
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
M.2 SSD
SE +/- 0.33, N = 3
133
eMMC
13
eMMC1
13
USB3.0
2
USB2.0
3
Micro SD
SE +/- 20.55, N = 12
135
Type C
5
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
Stress-NG 0.11.07
Test: Crypto
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 6.29, N = 3
1204.33
300
600
900
1200
1500
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc
Stress-NG 0.11.07
Test: Forking
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 82.08, N = 3
6387.22
1400
2800
4200
5600
7000
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

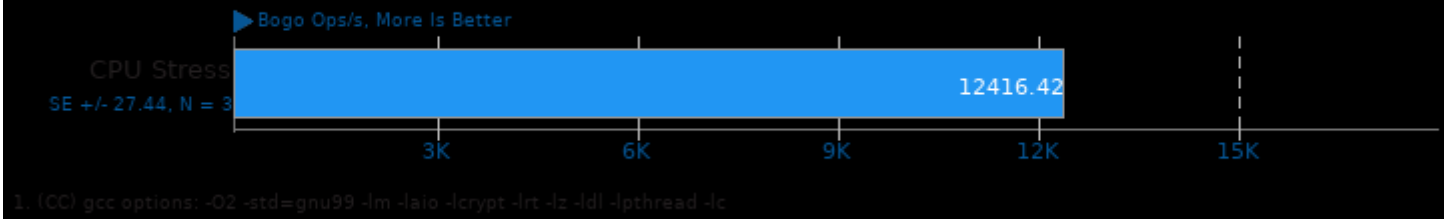
Test: CPU Stress



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

Stress-NG 0.11.07

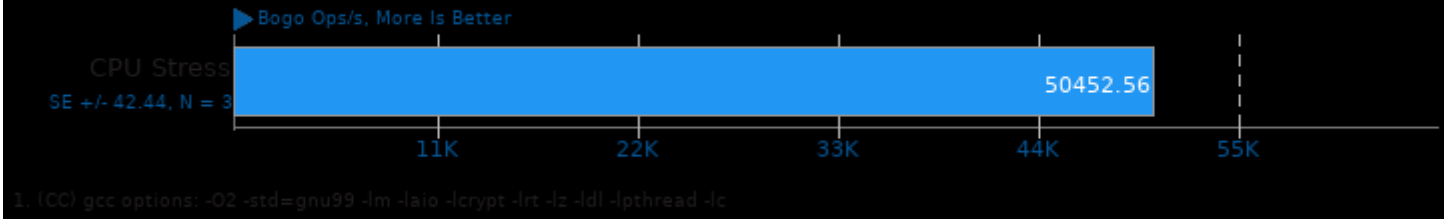
Test: Matrix Math



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

Stress-NG 0.11.07

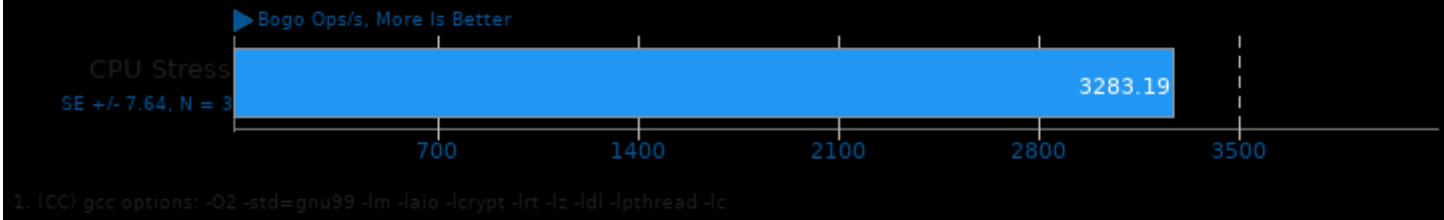
Test: Vector Math



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

Stress-NG 0.11.07

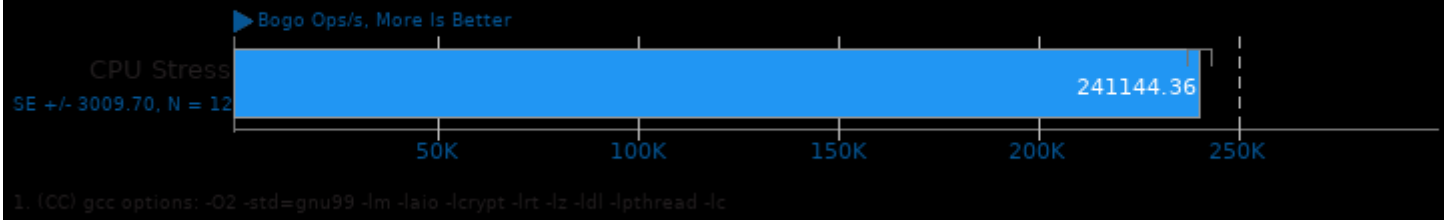
Test: Memory Copying



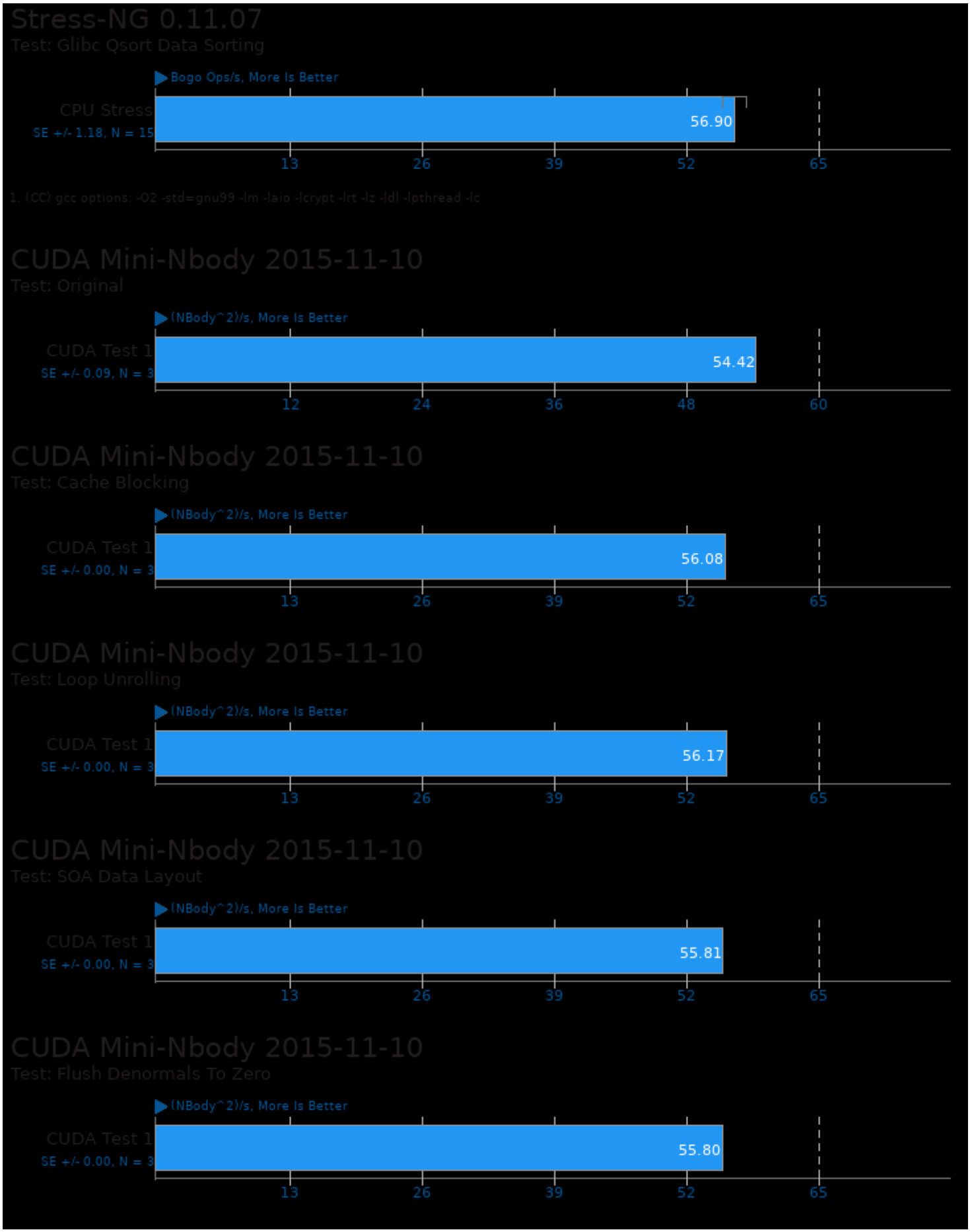
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: Glibc C String Functions

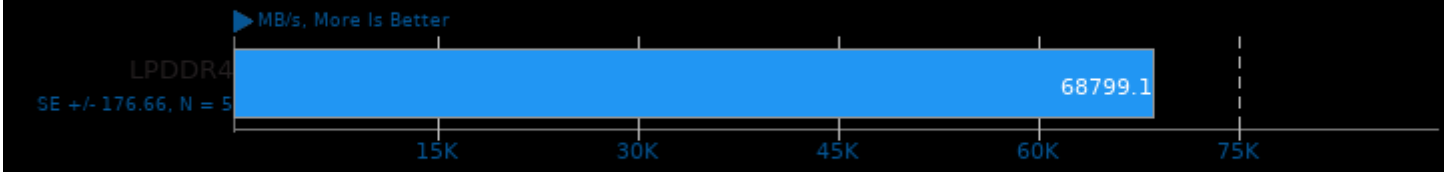


1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc


Stress-NG 0.11.07
Test: Glibc Qsort Data Sorting
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 1.18, N = 15
56.90
13
26
39
52
65
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 Test 1
SE +/- 0.09, N = 3
54.42
12
24
36
48
60
CUDA Mini-Nbody 2015-11-10
Test: Cache Blocking
(NBody^2)/s, More Is Better
CUDA Test 1
SE +/- 0.00, N = 3
56.08
13
26
39
52
65
CUDA Mini-Nbody 2015-11-10
Test: Loop Unrolling
(NBody^2)/s, More Is Better
CUDA Test 1
SE +/- 0.00, N = 3
56.17
13
26
39
52
65
CUDA Mini-Nbody 2015-11-10
Test: SOA Data Layout
(NBody^2)/s, More Is Better
CUDA Test 1
SE +/- 0.00, N = 3
55.81
13
26
39
52
65
CUDA Mini-Nbody 2015-11-10
Test: Flush Denormals To Zero
(NBody^2)/s, More Is Better
CUDA Test 1
SE +/- 0.00, N = 3
55.80
13
26
39
52
65

Stream 2013-01-17

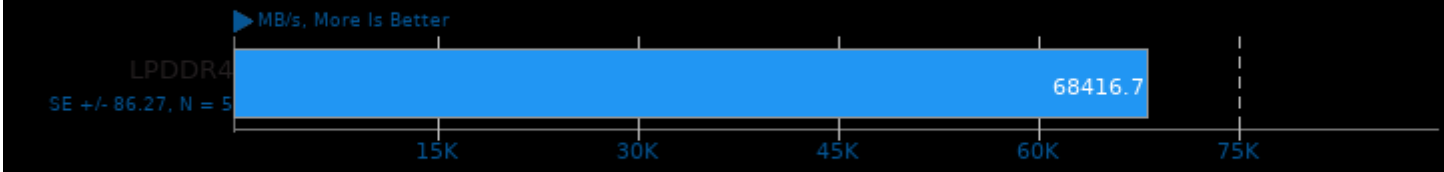
Type: Copy



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

Stream 2013-01-17

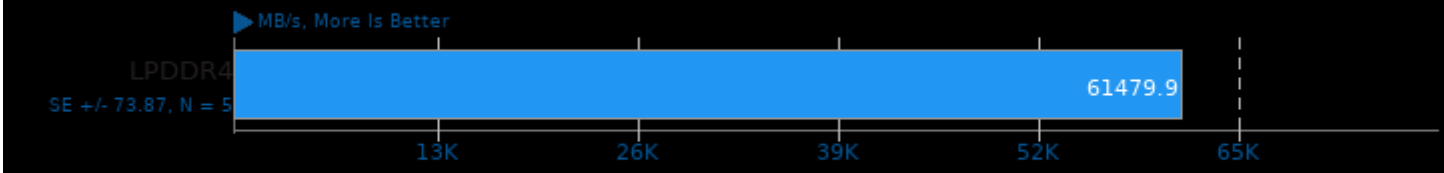
Type: Scale



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

Stream 2013-01-17

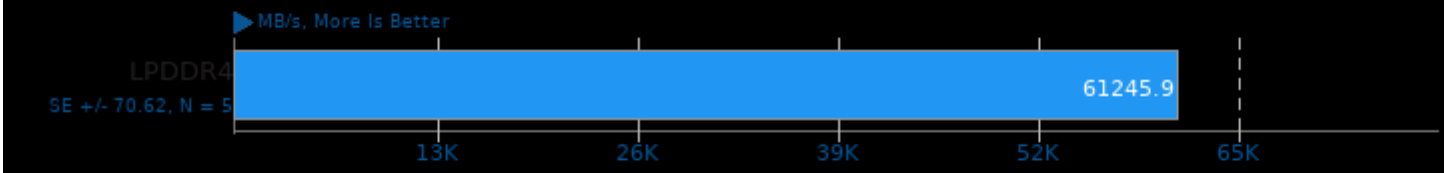
Type: Triad



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

Stream 2013-01-17

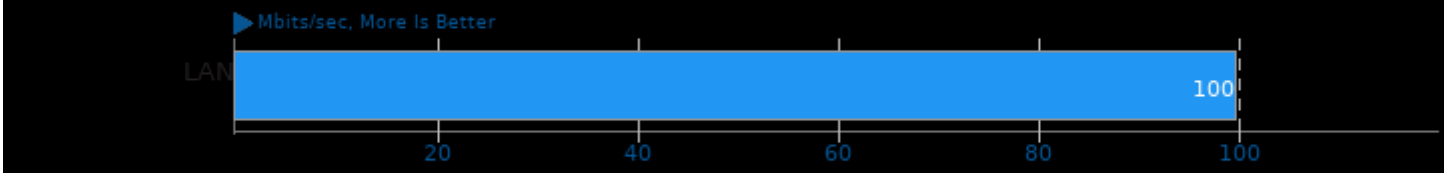
Type: Add



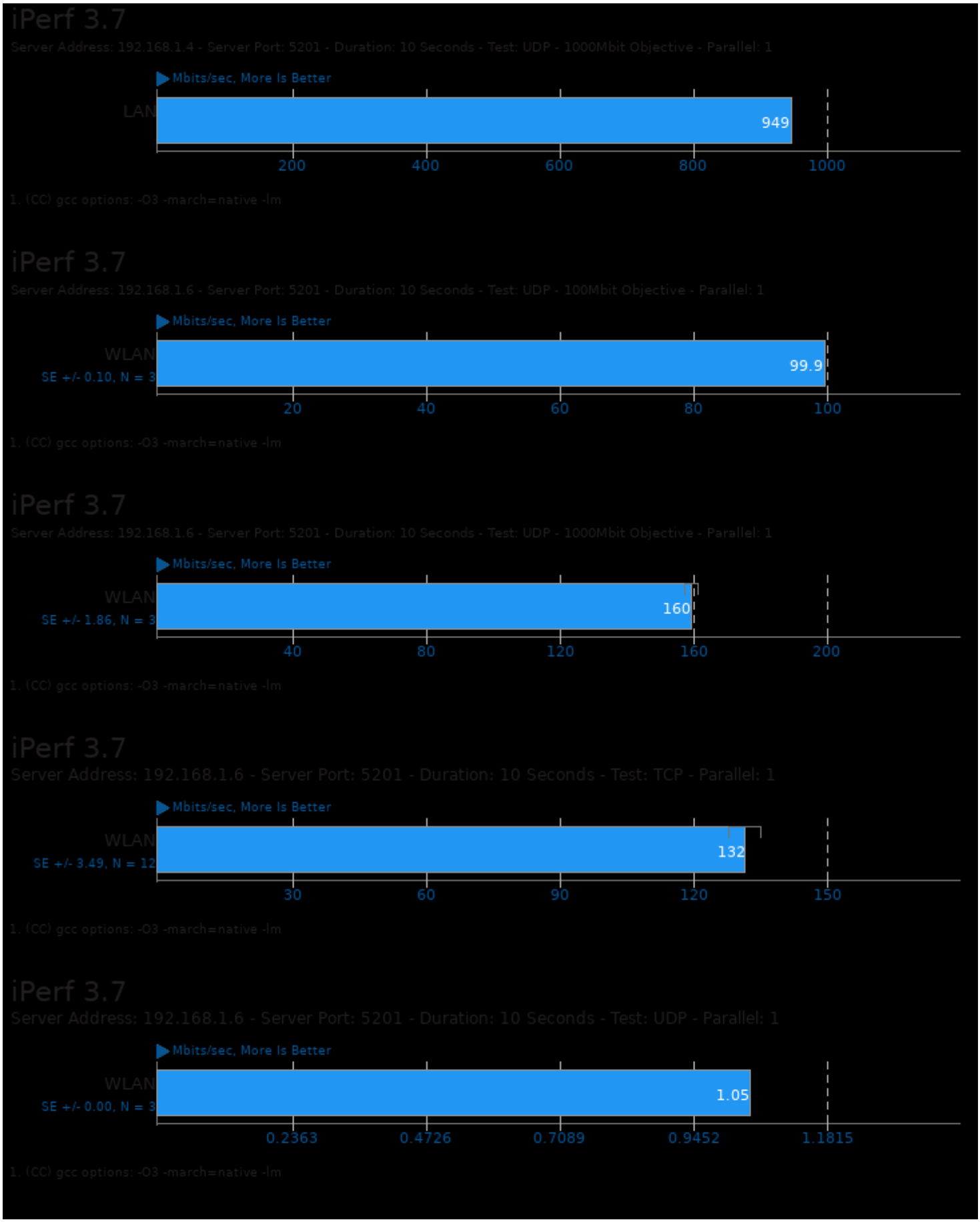
1. (CC) gcc options: -O3 -march=native -fopenmp

iPerf 3.7

Server Address: 192.168.1.4 - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 100Mbit Objective - Parallel: 1



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



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16:35.