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JS-C03-AX710_R32_4_3

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: 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, 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
Processor Notes: Scaling Governor: tegra_cpufreq schedutil
Disk Mount Options Notes: data=ordered,relatime,rw

USB3.0

USB 2.0

SD Card

Micro AB USB 2.0

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 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, 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
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

mSATA Inno

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: 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 32.4.3, 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: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

M.2_mPCIE Intel 760P

TYPE C USB3.0

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: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.3, 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: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

Type-C DIGFAST

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 256GB Tech + 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 32.4.3, 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: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

CPU Stress

LPDDR4

CUDA-nbody

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 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 32.4.3, 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

LAN1

LAN2

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: ASUS VN248, 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 32.4.3, 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

Graphics

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: U2879G6, 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

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Driver: NVIDIA 32.4.3, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 3840x2160

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

	eMMC	USB3.0	USB 2.0	SD Card	Micro AB USB 2.0	mSATA Inno	M.2_mPCIE Intel 760P	TYPE C USB3.0	Type-C DIGFAST	CPU Stress	LPDDR4	CUDA-nbody	LAN1	LAN2	Graphics
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	96.8	86.5	**27.4**	54.6	**27.4**	192	**374**	37.4	38.6						
Normalized	25.88%	23.13%	7.33%	14.6%	7.33%	51.34%	100%	10%	10.32%						
Standard Deviation	29.7%	0.9%	0%	1%	0.4%			0.3%	0.1%						
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	24787	22133	**7004**	14067	7014	49167	**95700**	9569	9866						
Normalized	25.9%	23.13%	7.32%	14.7%	7.33%	51.38%	100%	10%	10.31%						
Standard Deviation	29.6%	0.9%	0.1%	0.4%	0.2%	0.3%	0.5%	0.2%	0.1%						
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (MB/s)	299	118	52.1	101	**51.9**	425	**2068**	63.8	64.6						
Normalized	14.46%	5.71%	2.52%	4.88%	2.51%	20.55%	100%	3.09%	3.12%						
Standard Deviation	0.6%		1%		1.6%		1%	0.1%	0.2%						

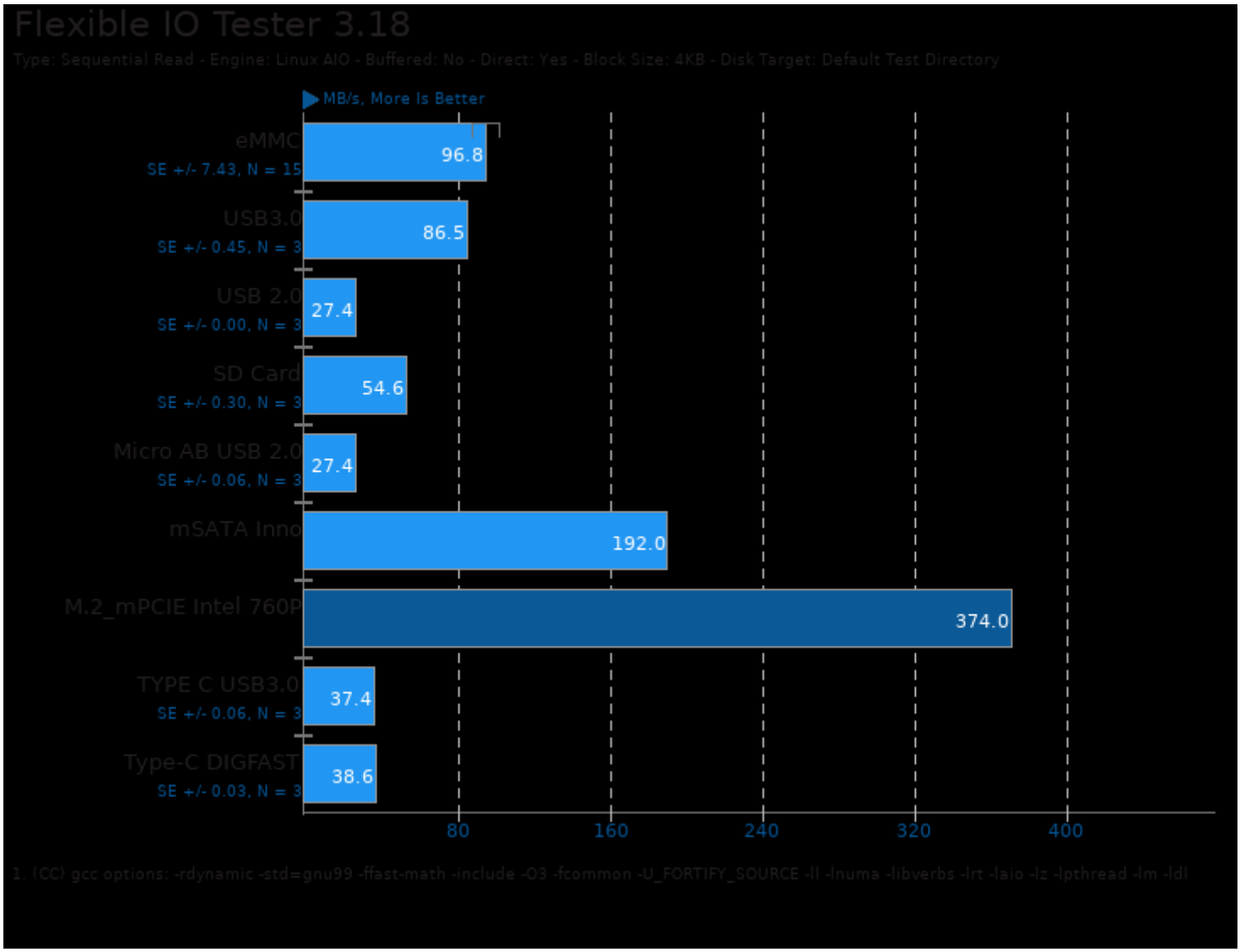
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (IOPS)	34	11	3	9	3	49	255	4	5
Normalized	13.33%	4.31%	1.18%	3.53%	1.18%	19.22%	100%	1.57%	1.96%
Standard Deviation							1%		
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	91.8	24.5	24.1	21.4	24.1	87.2	280	19.1	38.7
Normalized	32.79%	8.75%	8.61%	7.64%	8.61%	31.14%	100%	6.82%	13.82%
Standard Deviation	6.9%	0.4%	1.9%	1.1%	0.9%	0.1%		1.6%	0%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	23500	6271	6152	5467	6171	22300	71700	4895	9906
Normalized	32.78%	8.75%	8.58%	7.62%	8.61%	31.1%	100%	6.83%	13.82%
Standard Deviation	6.9%	0.3%	1.9%	1.1%	0.7%			1.8%	0.1%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (MB/s)	137	38.9	48.8	66.1	48.8	104	286	44.2	64.7
Normalized	47.9%	13.6%	17.06%	23.11%	17.06%	36.36%	100%	15.45%	22.62%
Standard Deviation		2.5%	1.4%	0.5%	0.3%		1%	0.7%	0%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (IOPS)	14	2	3	5	3	10	32	2	5
Normalized	43.75%	6.25%	9.38%	15.63%	9.38%	31.25%	100%	6.25%	15.63%
Stress-NG - Crypto (Bogo Ops/s)									1169
Standard Deviation									2.9%

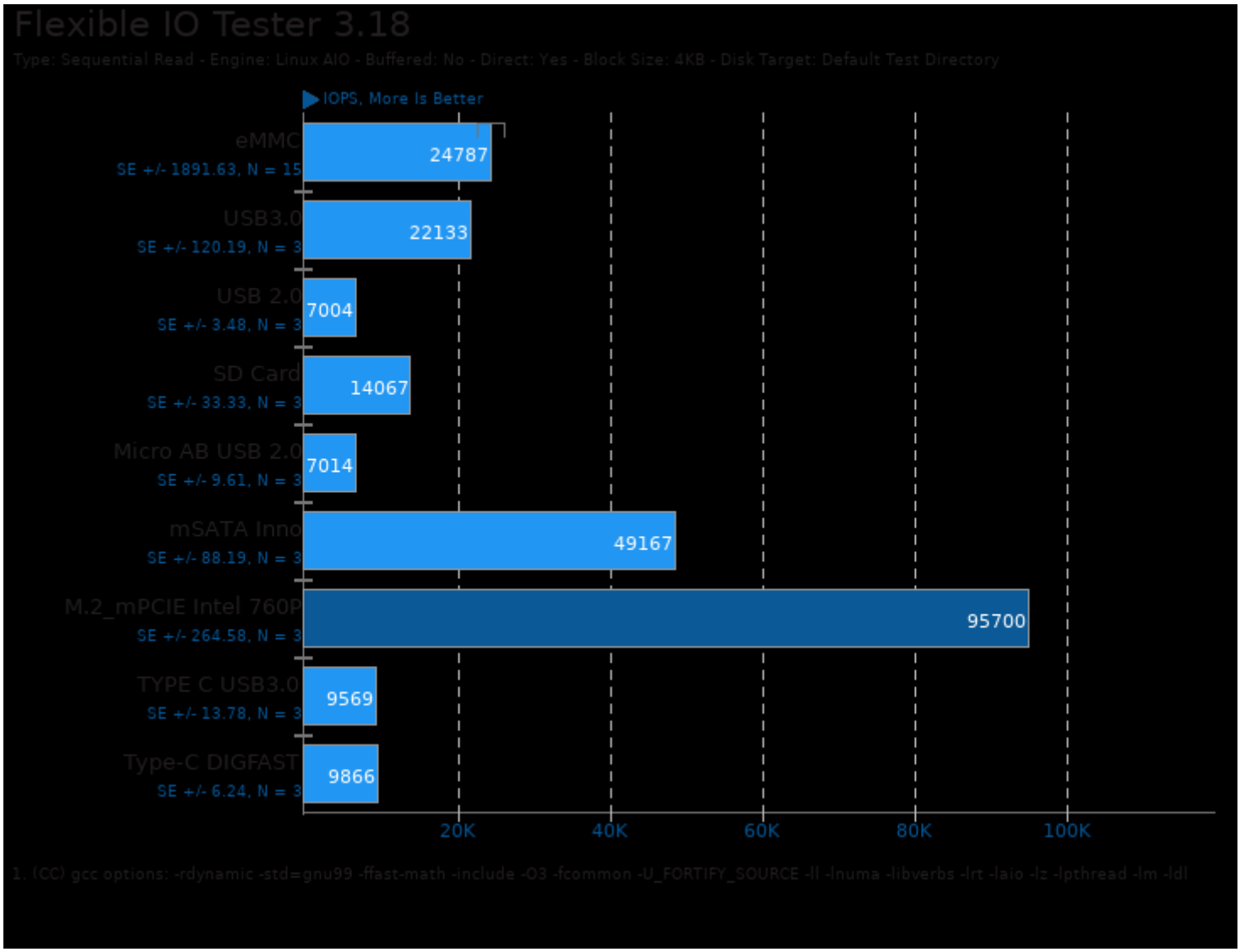
Stress-NG - Forking (Bogo Ops/s)	6519		
Standard Deviation	0.1%		
Stress-NG - CPU Stress (Bogo Ops/s)	865.5	2	
Standard Deviation	2.9%		
Stress-NG - Matrix Math (Bogo Ops/s)	13270		
Standard Deviation	0.1%		
Stress-NG - Vector Math (Bogo Ops/s)	48867		
Standard Deviation	0.5%		
Stress-NG - Memory Copying (Bogo Ops/s)	3269		
Standard Deviation	0.2%		
Stress-NG - G.C.S.F (Bogo Ops/s)	23211	5	
Standard Deviation	4.8%		
Stress-NG - G.Q.D.S (Bogo Ops/s)	55.49		
Standard Deviation	2.9%		
Stream - Copy (MB/s)		68020	
Standard Deviation		0.1%	
Stream - Scale (MB/s)		68645	
Standard Deviation		0.6%	
Stream - Triad (MB/s)		62384	
Standard Deviation		0.4%	
Stream - Add (MB/s)		62000	

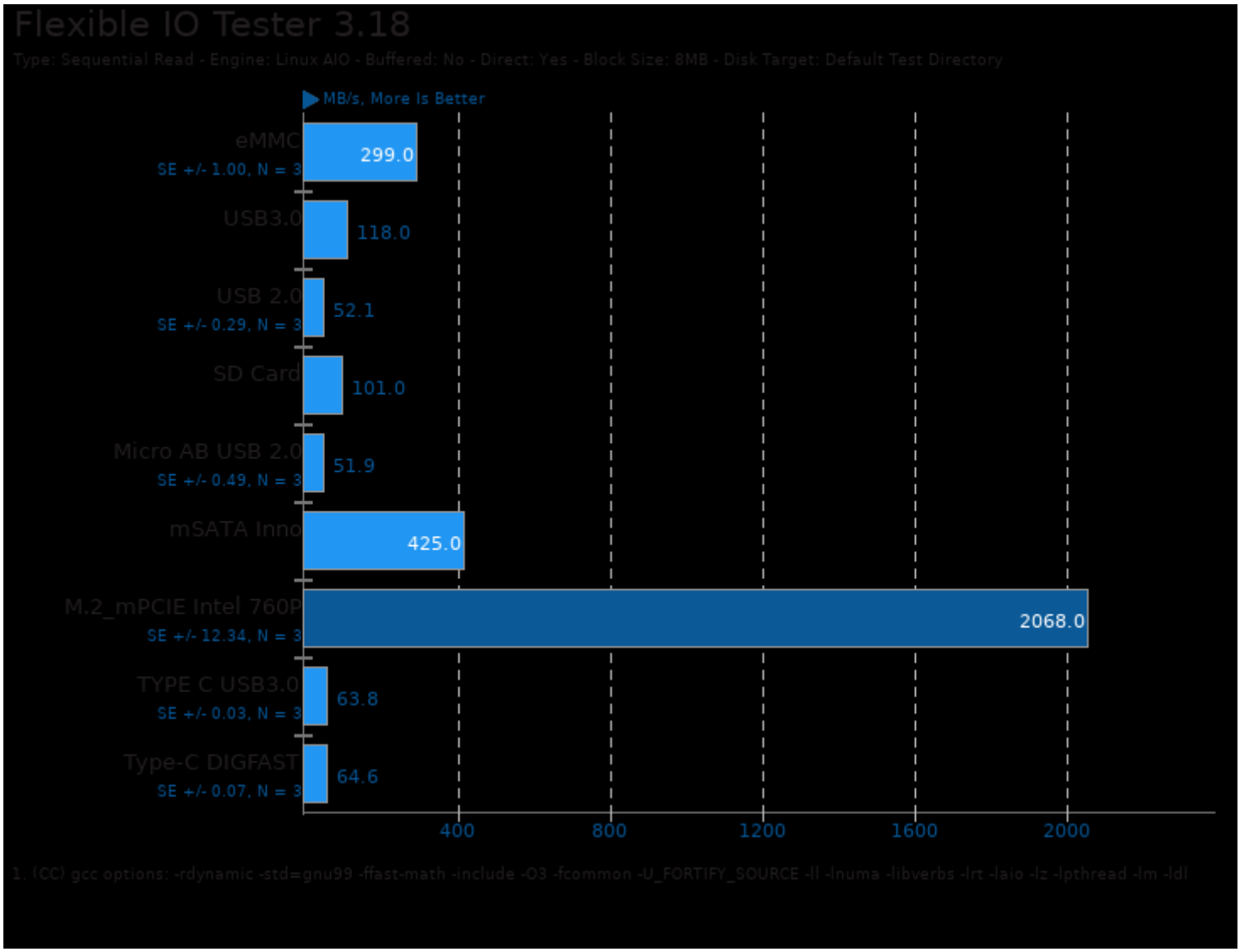
Standard Deviation	0.5%			
CUDA Mini-Nbody - Original ((NBody^2)/s		53.62		
Standard Deviation		0.2%		
CUDA Mini-Nbody - Cache Blocking ((NBody^2)/s		55.26		
Standard Deviation		0%		
CUDA Mini-Nbody - Loop Unrolling ((NBody^2)/s		55.34		
Standard Deviation		0%		
CUDA Mini-Nbody - SOA Data Layout ((NBody^2)/s		54.67		
Standard Deviation		0.1%		
CUDA Mini-Nbody - F.D.T.Z ((NBody^2)/s		54.68		
Standard Deviation		0.1%		
iPerf - 192.168.1.2 - 5201 - 10 Seconds - UDP - 100Mbit Objective - 1 (Mbits/s)			100	100

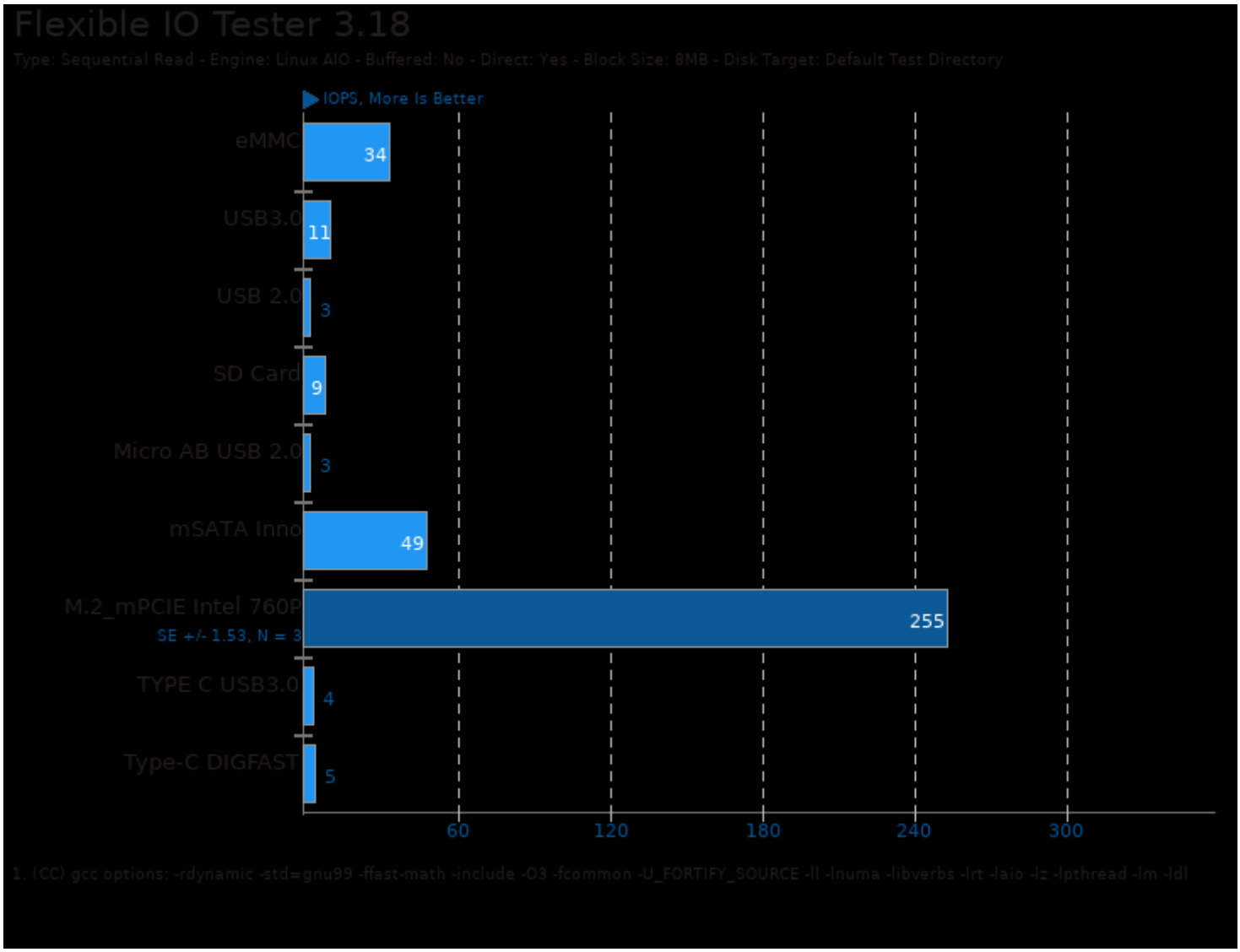
JS-C03-AX710_R32_4_3

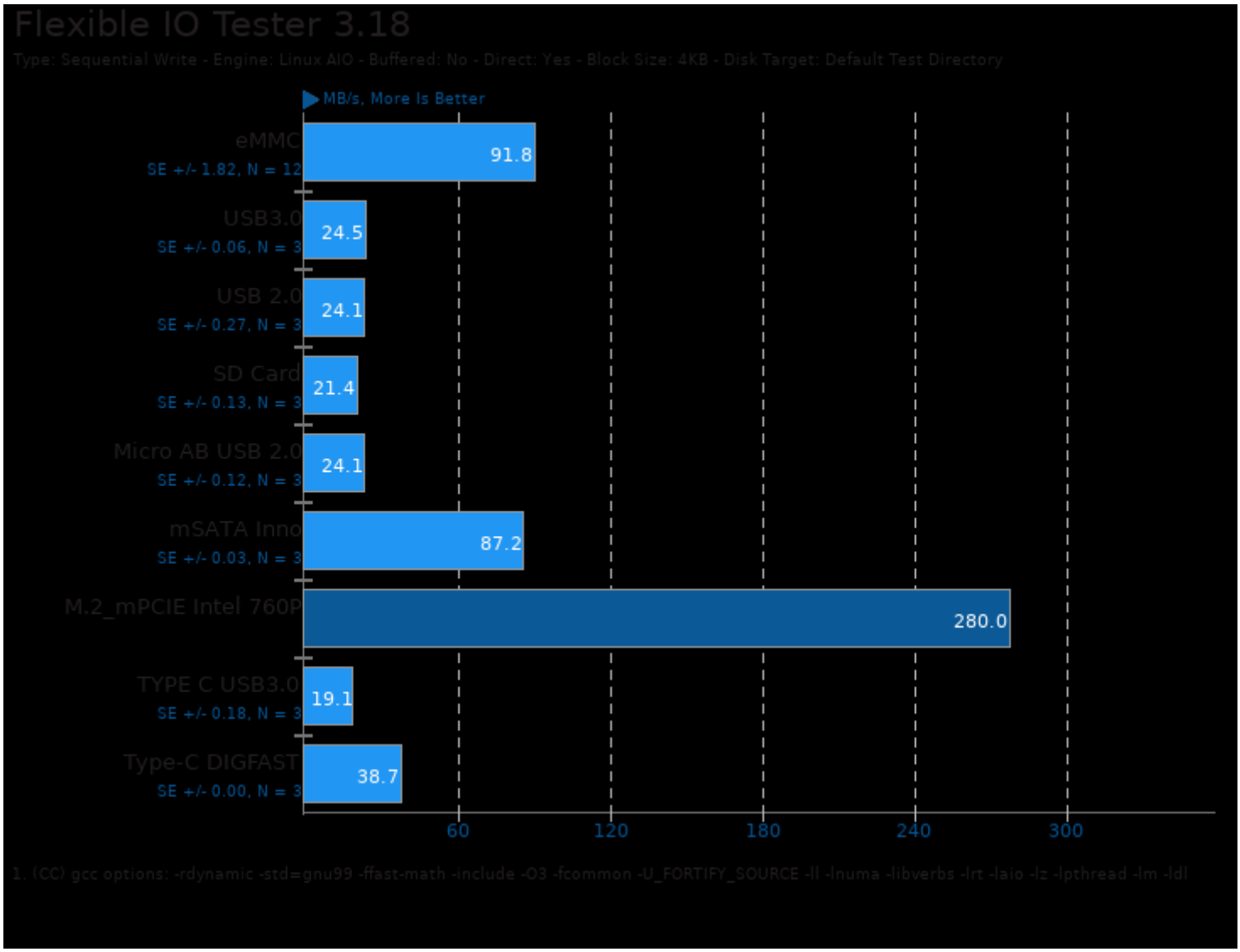
iPerf - 192.168.1.2 - 5201 - 10 Seconds - UDP - 1000Mbit Objective - 1 (Mbits/s)	950	956
Normalized	99.37%	100%
GLmark2 - 800 x 600 (Score)		6981
GLmark2 - 1024 x 768 (Score)		5430
GLmark2 - 1280 x 1024 (Score)		3868
GLmark2 - 1600 x 1200 (Score)		3063
GLmark2 - 1920 x 1080 (Score)		3041
GLmark2 - 1920 x 1200 (Score)		2794
GLmark2 - 2560 x 1440 (Score)		1995
GLmark2 - 3840 x 2160 (Score)		950

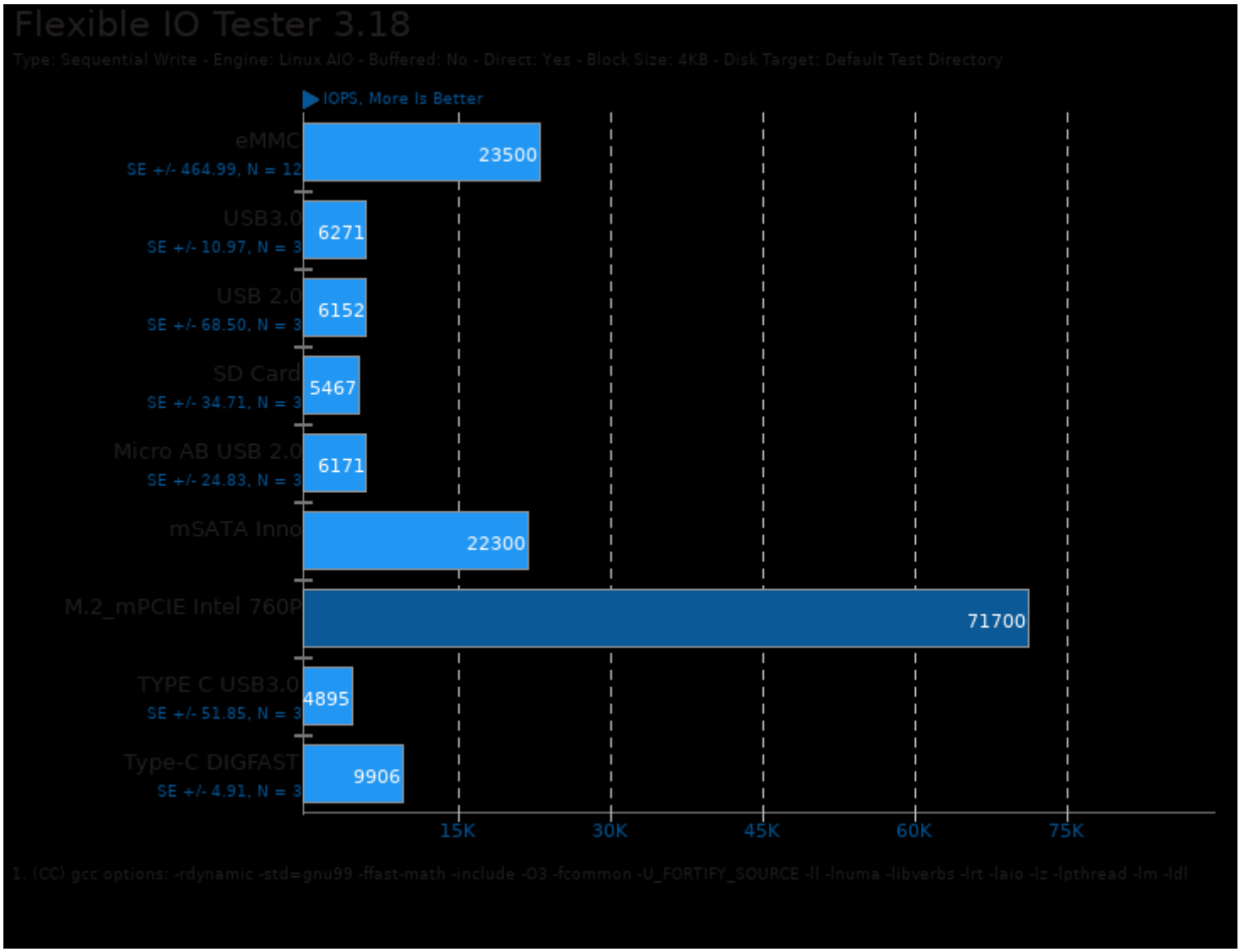

Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
eMMC
SE +/- 7.43, N = 15
96.8
USB3.0
SE +/- 0.45, N = 3
86.5
USB 2.0
SE +/- 0.00, N = 3
27.4
SD Card
SE +/- 0.30, N = 3
54.6
Micro AB USB 2.0
SE +/- 0.06, N = 3
27.4
mSATA Inno
192.0
M.2_mPCIE Intel 760P
374.0
TYPE C USB3.0
SE +/- 0.06, N = 3
37.4
Type-C DIGFAST
SE +/- 0.03, N = 3
38.6
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lpthread -lm -ldl

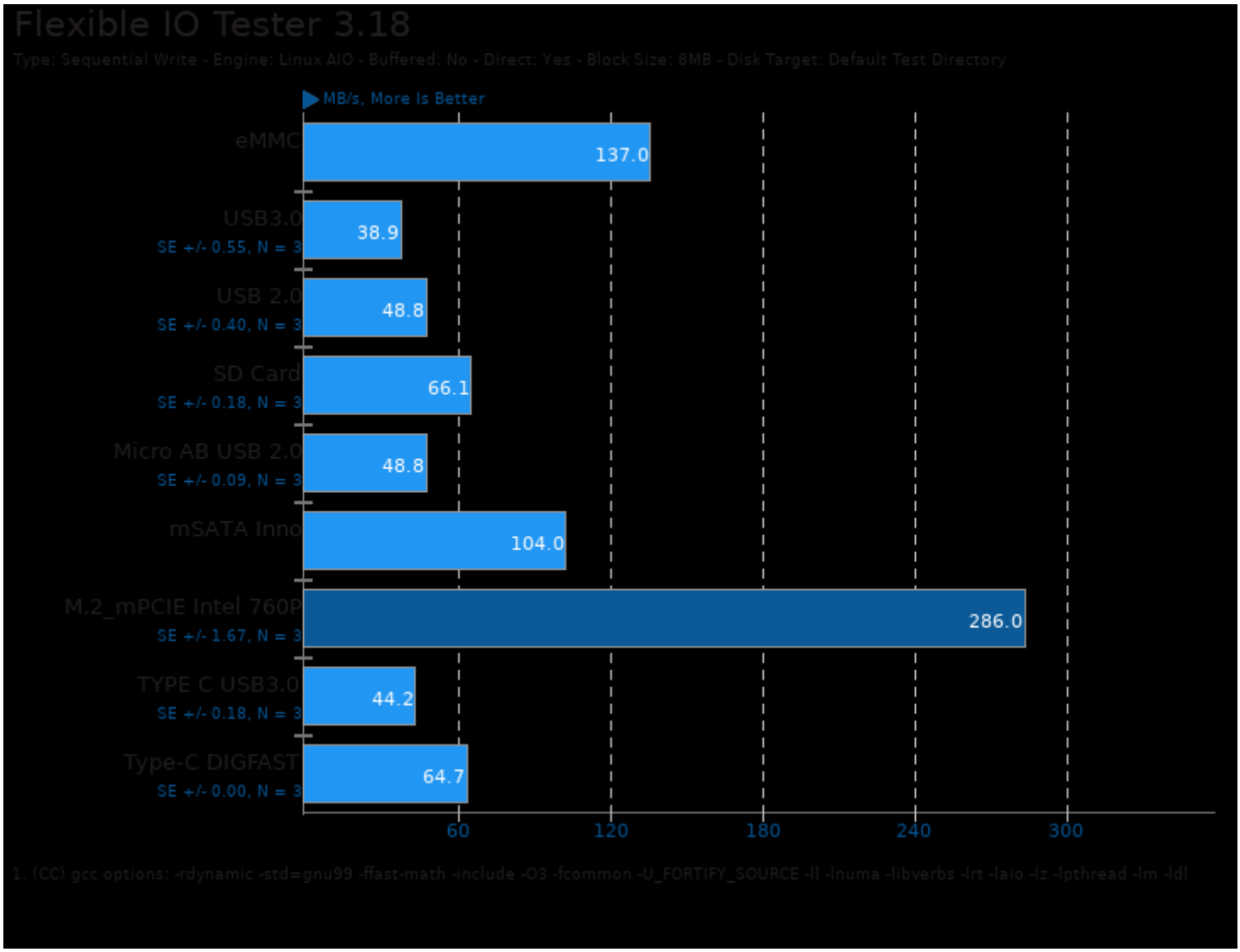

Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
eMMC
SE +/- 1891.63, N = 15
24787
USB3.0
SE +/- 120.19, N = 3
22133
USB 2.0
SE +/- 3.48, N = 3
7004
SD Card
SE +/- 33.33, N = 3
14067
Micro AB USB 2.0
SE +/- 9.61, N = 3
7014
mSATA Inno
SE +/- 88.19, N = 3
49167
M.2_mPCIE Intel 760P
SE +/- 264.58, N = 3
95700
TYPE C USB3.0
SE +/- 13.78, N = 3
9569
Type-C DIGFAST
SE +/- 6.24, N = 3
9866
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lpthread -lm -ldl

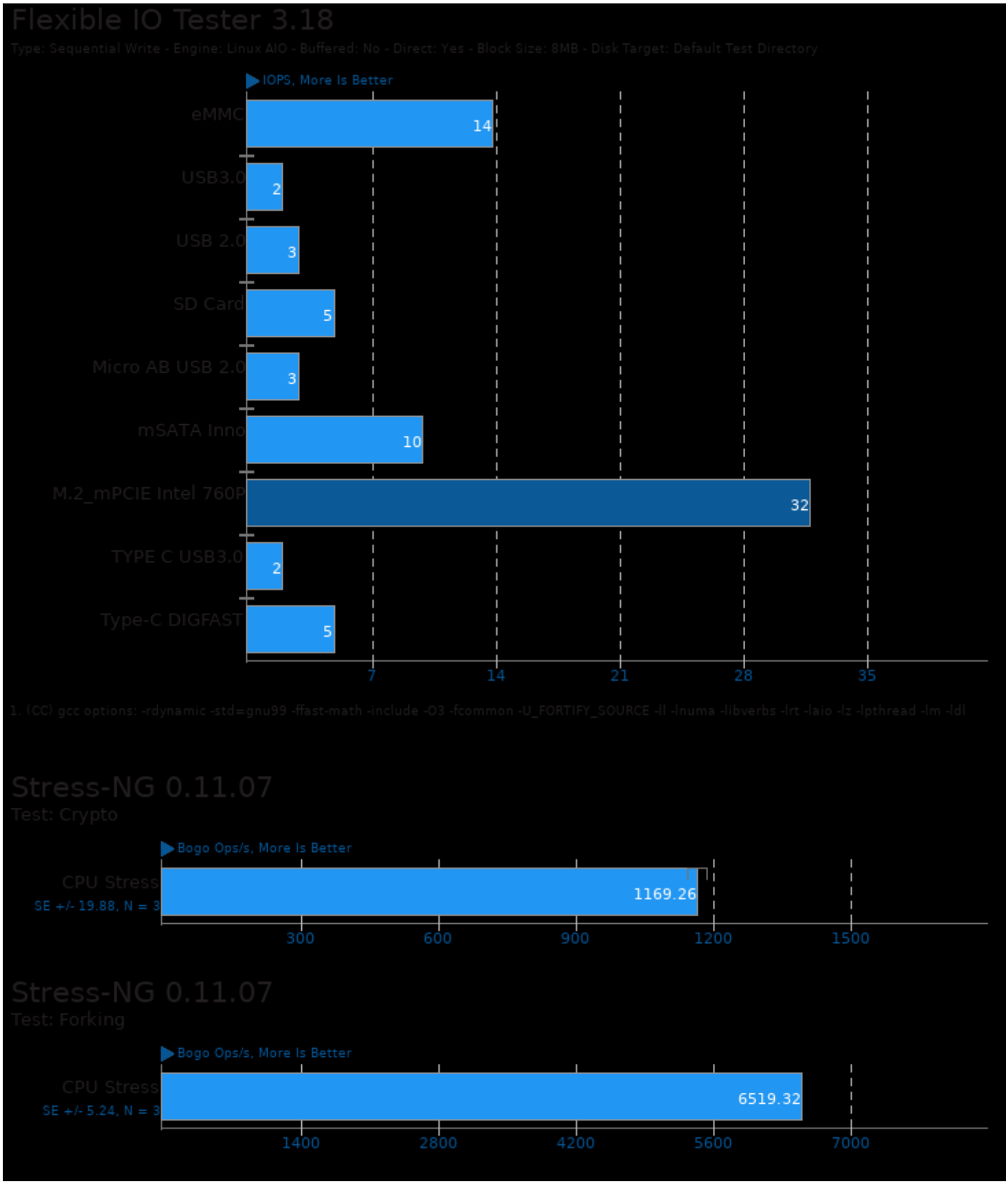

Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
eMMC
SE +/- 1.00, N = 3
299.0
USB3.0
118.0
USB 2.0
SE +/- 0.29, N = 3
52.1
SD Card
101.0
Micro AB USB 2.0
SE +/- 0.49, N = 3
51.9
mSATA Inno
425.0
M.2_mPCIE Intel 760P
SE +/- 12.34, N = 3
2068.0
TYPE C USB3.0
SE +/- 0.03, N = 3
63.8
Type-C DIGFAST
SE +/- 0.07, N = 3
64.6
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lpthread -lm -ldl

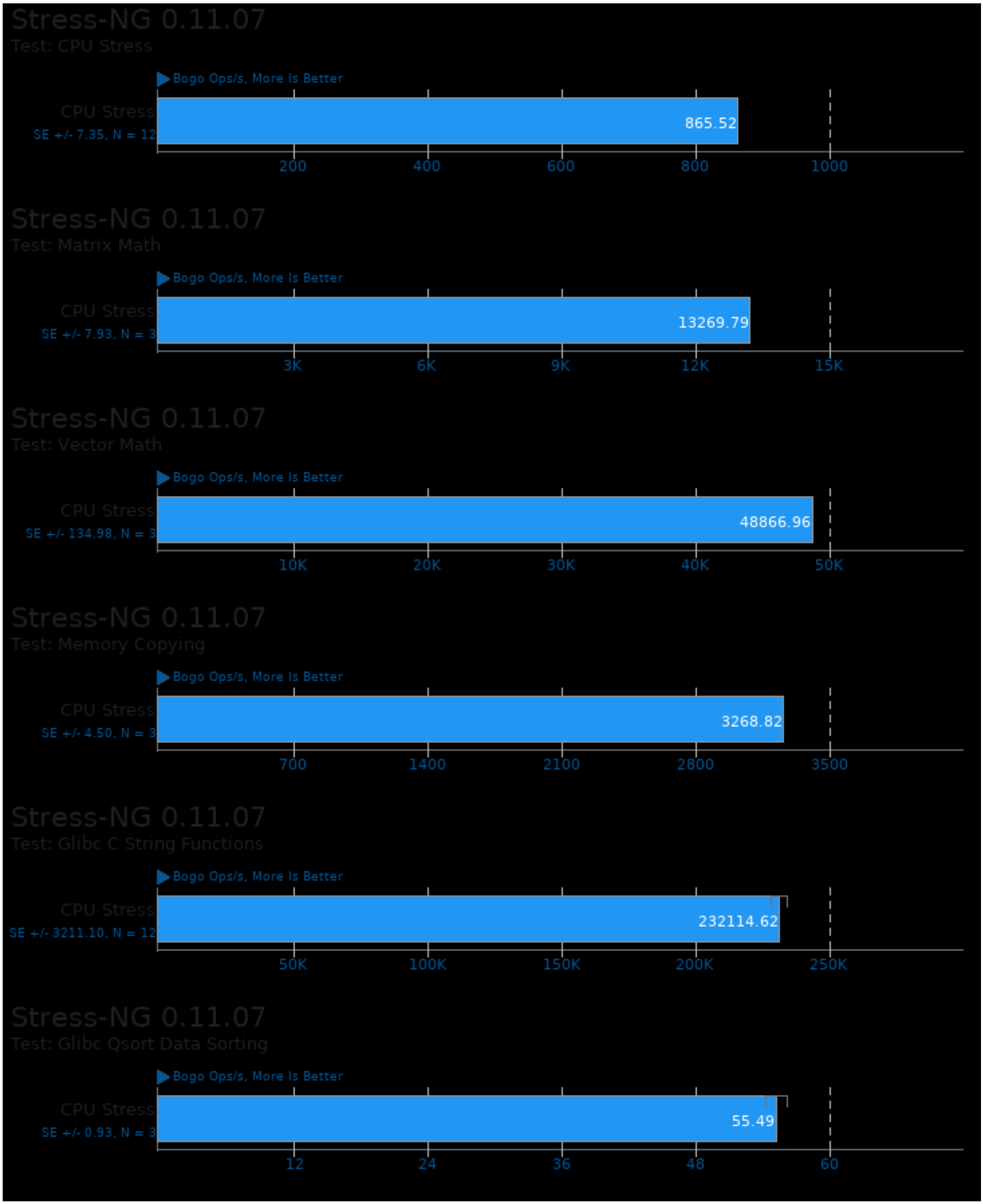

Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
eMMC
34
USB3.0
11
USB 2.0
3
SD Card
9
Micro AB USB 2.0
3
mSATA Inno
49
M.2_mPCIE Intel 760P
SE +/- 1.53, N = 3
255
TYPE C USB3.0
4
Type-C DIGFAST
5
60
120
180
240
300
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
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 +/- 1.82, N = 12
91.8
USB3.0
SE +/- 0.06, N = 3
24.5
USB 2.0
SE +/- 0.27, N = 3
24.1
SD Card
SE +/- 0.13, N = 3
21.4
Micro AB USB 2.0
SE +/- 0.12, N = 3
24.1
mSATA Inno
SE +/- 0.03, N = 3
87.2
M.2_mPCIE Intel 760P
280.0
TYPE C USB3.0
SE +/- 0.18, N = 3
19.1
Type-C DIGFAST
SE +/- 0.00, N = 3
38.7
60
120
180
240
300
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
eMMC
SE +/- 464.99, N = 12
23500
USB3.0
SE +/- 10.97, N = 3
6271
USB 2.0
SE +/- 68.50, N = 3
6152
SD Card
SE +/- 34.71, N = 3
5467
Micro AB USB 2.0
SE +/- 24.83, N = 3
6171
mSATA Inno
22300
M.2_mPCIE Intel 760P
71700
TYPE C USB3.0
SE +/- 51.85, N = 3
4895
Type-C DIGFAST
SE +/- 4.91, N = 3
9906
15K
30K
45K
60K
75K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lpthread -lm -ldl

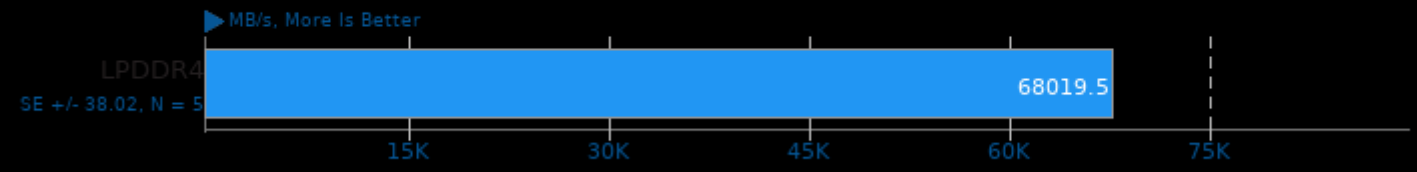

Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
eMMC
137.0
USB3.0
SE +/- 0.55, N = 3
38.9
USB 2.0
SE +/- 0.40, N = 3
48.8
SD Card
SE +/- 0.18, N = 3
66.1
Micro AB USB 2.0
SE +/- 0.09, N = 3
48.8
mSATA Inno
104.0
M.2_mPCIE Intel 760P
SE +/- 1.67, N = 3
286.0
TYPE C USB3.0
SE +/- 0.18, N = 3
44.2
Type-C DIGFAST
SE +/- 0.00, N = 3
64.7
60
120
180
240
300
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
eMMC
14
USB3.0
2
USB 2.0
3
SD Card
5
Micro AB USB 2.0
3
mSATA Inno
10
M.2_mPCIE Intel 760P
32
TYPE C USB3.0
2
Type-C DIGFAST
5
7
14
21
28
35
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lpthread -lm -ldl
Stress-NG 0.11.07
Test: Crypto
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 19.88, N = 3
1169.26
300
600
900
1200
1500
Stress-NG 0.11.07
Test: Forking
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 5.24, N = 3
6519.32
1400
2800
4200
5600
7000


Stress-NG 0.11.07
Test: CPU Stress
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 7.35, N = 12
865.52
200
400
600
800
1000
Stress-NG 0.11.07
Test: Matrix Math
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 7.93, N = 3
13269.79
3K
6K
9K
12K
15K
Stress-NG 0.11.07
Test: Vector Math
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 134.98, N = 3
48866.96
10K
20K
30K
40K
50K
Stress-NG 0.11.07
Test: Memory Copying
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 4.50, N = 3
3268.82
700
1400
2100
2800
3500
Stress-NG 0.11.07
Test: Glibc C String Functions
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 3211.10, N = 12
232114.62
50K
100K
150K
200K
250K
Stress-NG 0.11.07
Test: Glibc Qsort Data Sorting
Bogo Ops/s, More Is Better
CPU Stress
SE +/- 0.93, N = 3
55.49
12
24
36
48
60

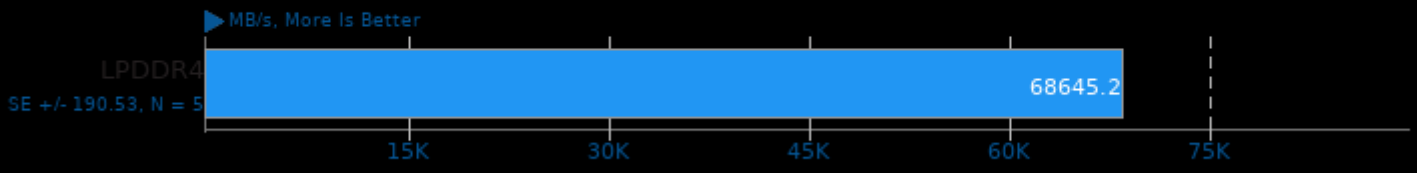
Stream 2013-01-17

Type: Copy



Stream 2013-01-17

Type: Scale



Stream 2013-01-17

Type: Triad



Stream 2013-01-17

Type: Add



CUDA Mini-Nbody 2015-11-10

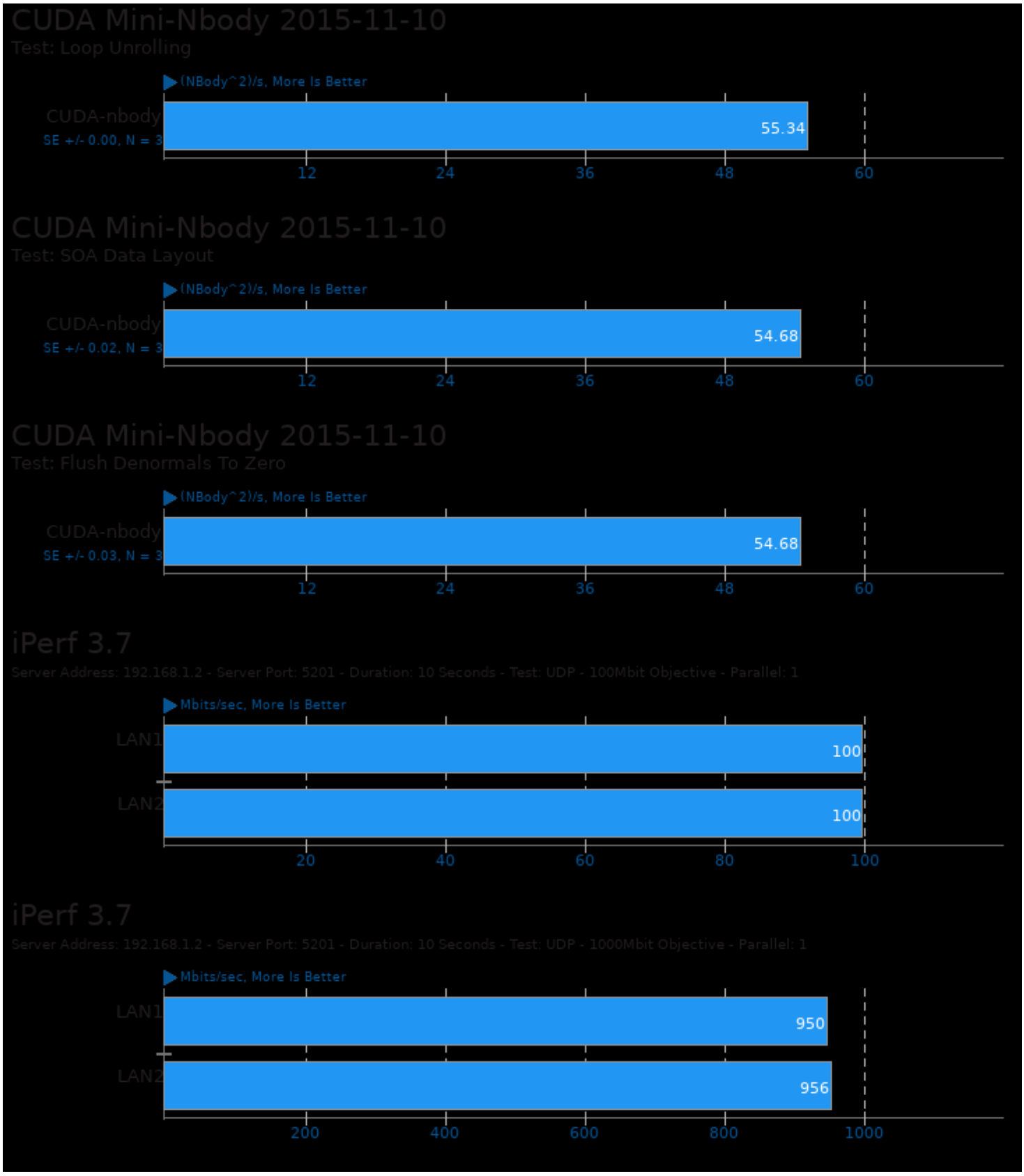
Test: Original

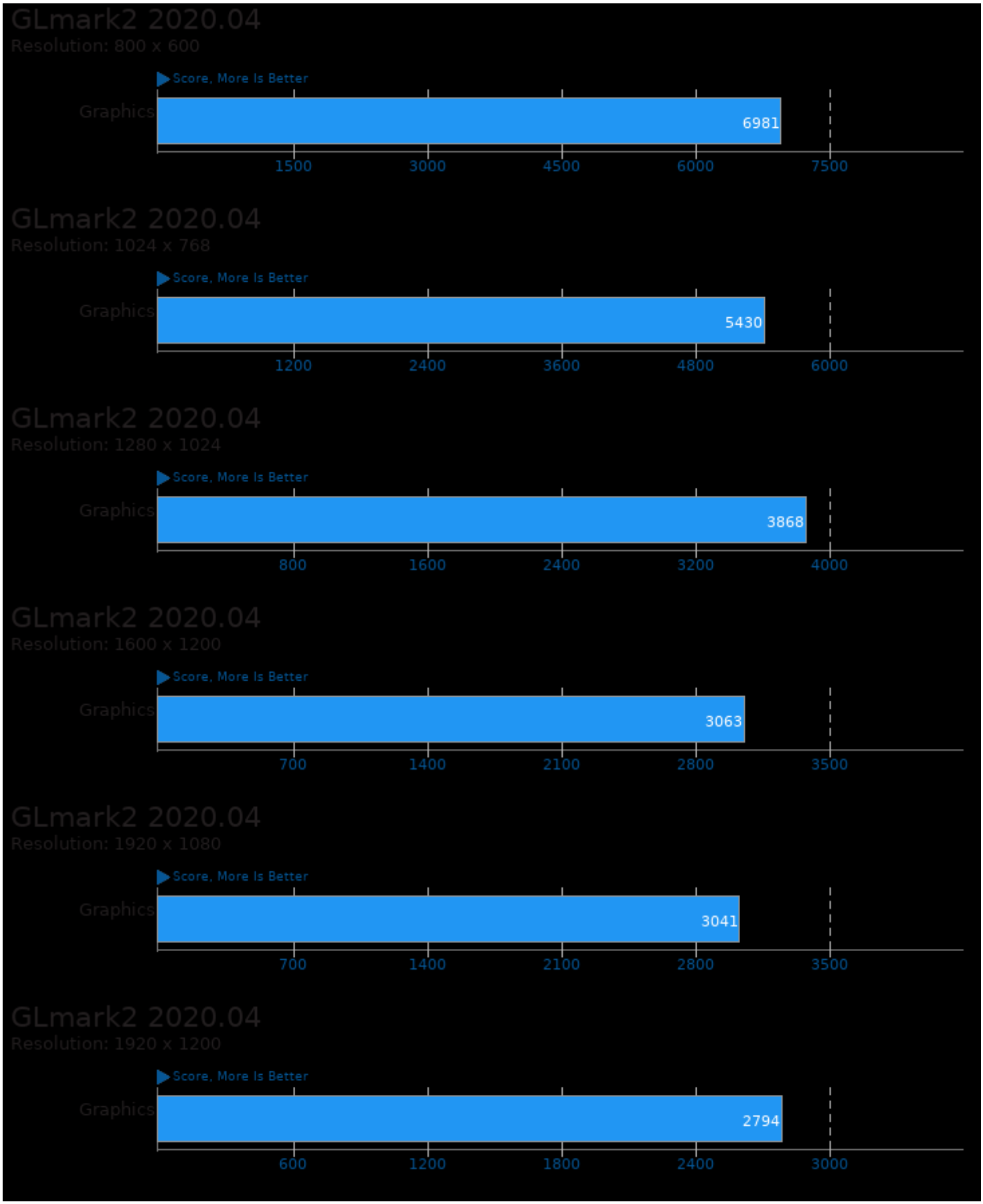


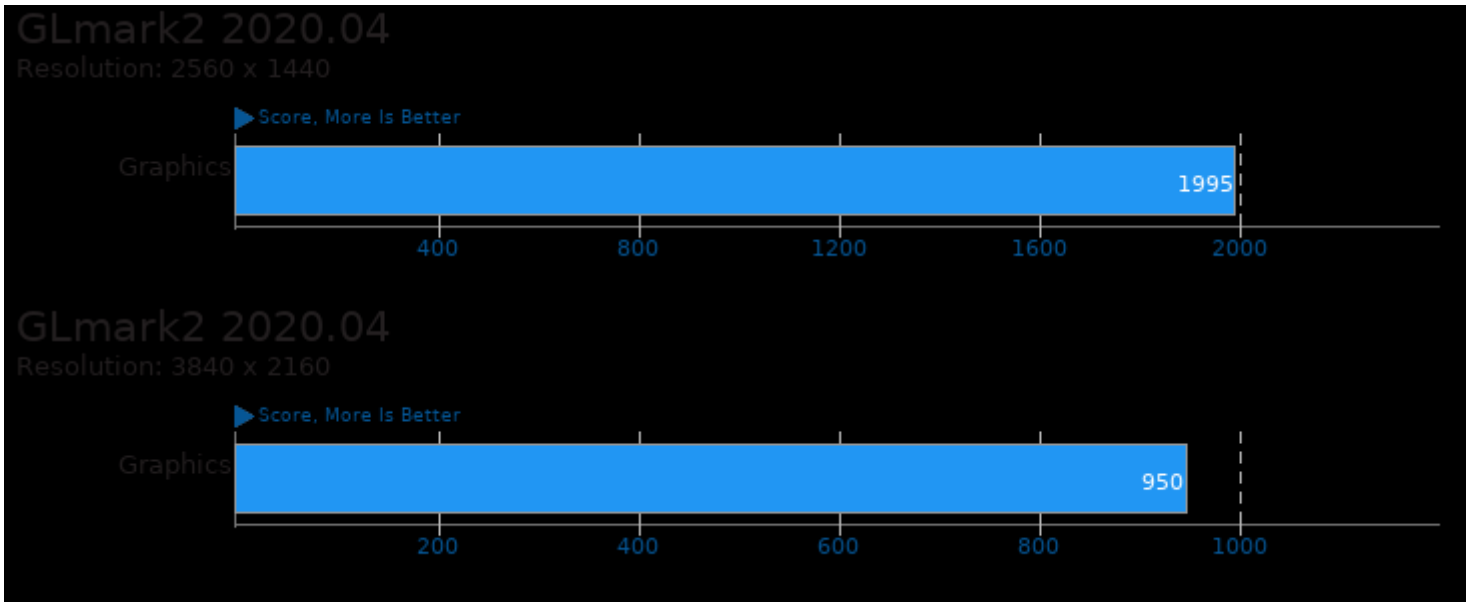
CUDA Mini-Nbody 2015-11-10

Test: Cache Blocking




CUDA Mini-Nbody 2015-11-10
Test: Loop Unrolling
(NBody^2)/s, More Is Better
CUDA-nbody
SE +/- 0.00, N = 3
55.34
12
24
36
48
60
CUDA Mini-Nbody 2015-11-10
Test: SOA Data Layout
(NBody^2)/s, More Is Better
CUDA-nbody
SE +/- 0.02, N = 3
54.68
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 +/- 0.03, N = 3
54.68
12
24
36
48
60
iPerf 3.7
Server Address: 192.168.1.2 - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 100Mbit Objective - Parallel: 1
Mbits/sec, More Is Better
LAN1
100
LAN2
100
20
40
60
80
100
iPerf 3.7
Server Address: 192.168.1.2 - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 1000Mbit Objective - Parallel: 1
Mbits/sec, More Is Better
LAN1
950
LAN2
956
200
400
600
800
1000


GLmark2 2020.04
Resolution: 800 x 600
Score, More Is Better
Graphics
6981
1500
3000
4500
6000
7500
GLmark2 2020.04
Resolution: 1024 x 768
Score, More Is Better
Graphics
5430
1200
2400
3600
4800
6000
GLmark2 2020.04
Resolution: 1280 x 1024
Score, More Is Better
Graphics
3868
800
1600
2400
3200
4000
GLmark2 2020.04
Resolution: 1600 x 1200
Score, More Is Better
Graphics
3063
700
1400
2100
2800
3500
GLmark2 2020.04
Resolution: 1920 x 1080
Score, More Is Better
Graphics
3041
700
1400
2100
2800
3500
GLmark2 2020.04
Resolution: 1920 x 1200
Score, More Is Better
Graphics
2794
600
1200
1800
2400
3000



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 13:53.