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Xavier R32.2.1_334 1223 WTIO

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

Test Systems:

SD Card

M.2 mSATA

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16384MB, Disk: 8GB USB Drive 2SE + 63GB M.2 (S80) 3MG2-P + 16GB USB Drive 3ME + 256GB + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: PHL 247E6, Network: 2 x Intel I210

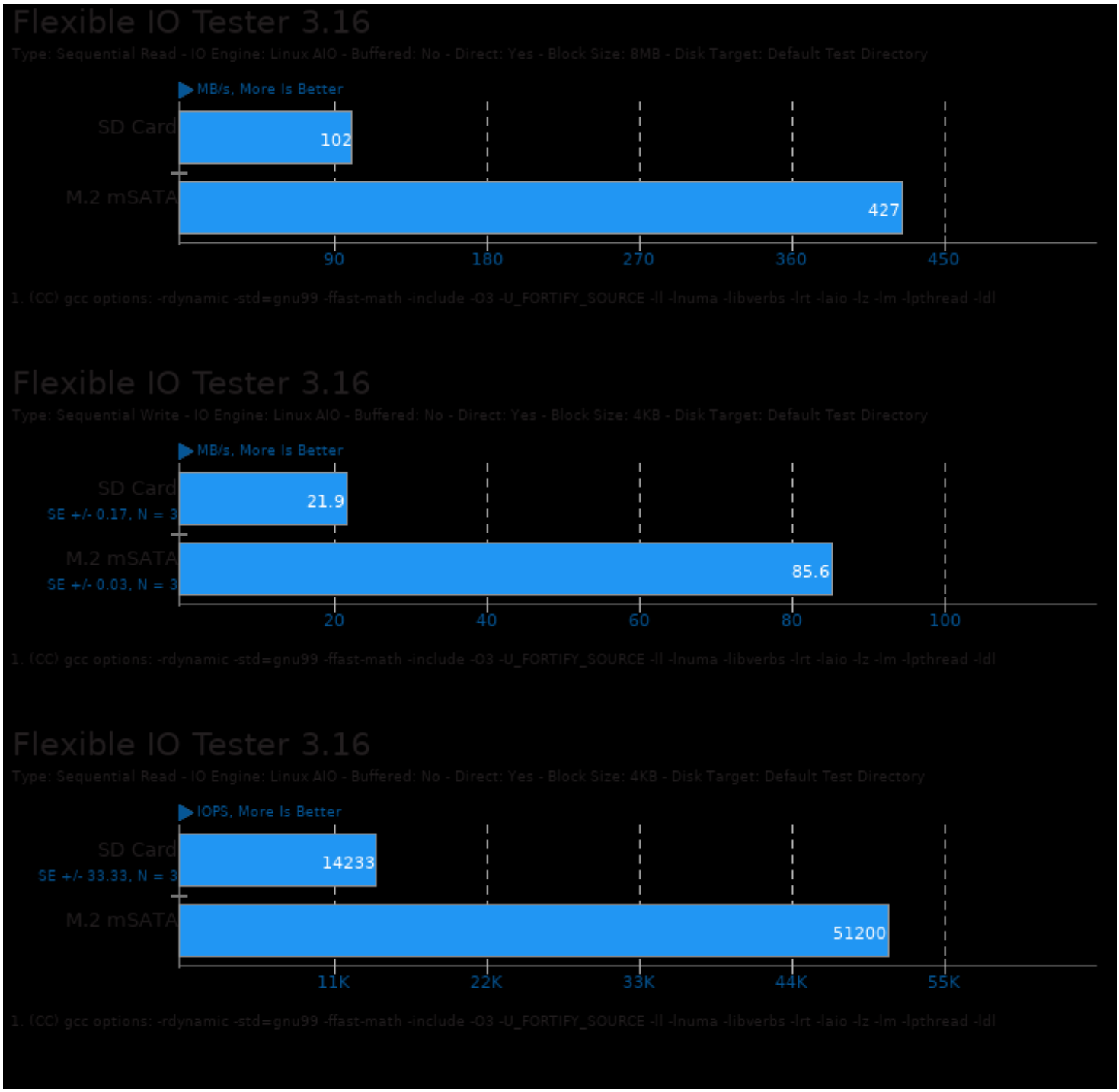
OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.2.1, OpenGL: 4.6.0, Vulkan: 1.1.85, Compiler: GCC 7.4.0 + CUDA 10.0, File-System: ext4, Screen Resolution: 1920x1080

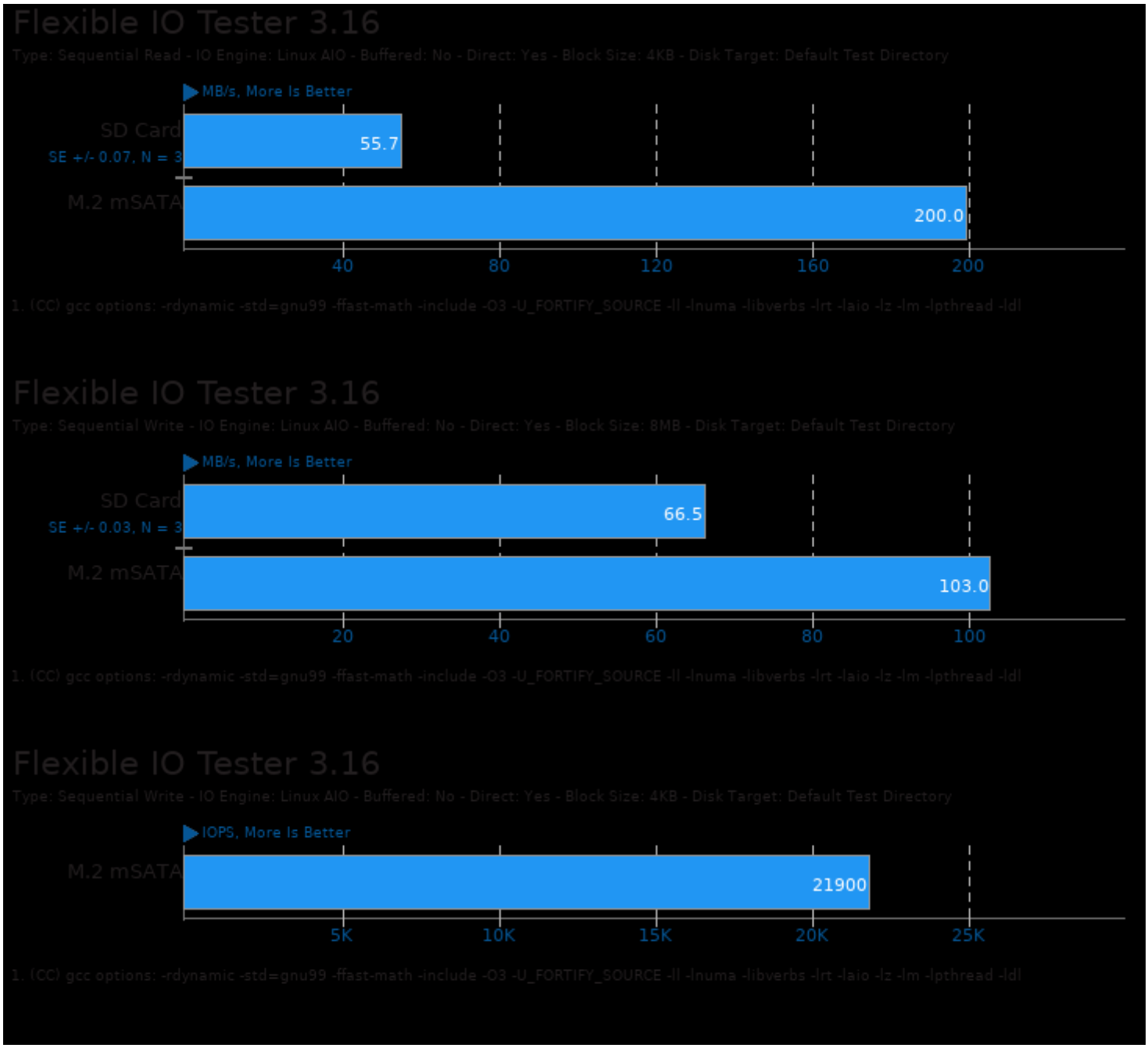
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug

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--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

	SD Card	M.2 mSATA
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (MB/s)	**102**	**427**
Normalized	23.89%	100%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	**21.9**	**85.6**
Normalized	25.58%	100%
Standard Deviation	1.4%	0.1%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	**14233**	**51200**
Normalized	27.8%	100%
Standard Deviation	0.4%	
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	**55.7**	**200**
Normalized	27.85%	100%
Standard Deviation	0.2%	
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (MB/s)	**66.5**	**103**
Normalized	64.56%	100%
Standard Deviation	0.1%	
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)		21900


Flexible IO Tester 3.16
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
SD Card
102
M.2 mSATA
427
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lm -lpthread -ldl
Flexible IO Tester 3.16
Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
SD Card
SE +/- 0.17, N = 3
21.9
M.2 mSATA
SE +/- 0.03, N = 3
85.6
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lm -lpthread -ldl
Flexible IO Tester 3.16
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
SD Card
SE +/- 33.33, N = 3
14233
M.2 mSATA
51200
11K
22K
33K
44K
55K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -ll -lnuma -libverbs -lrt -laio -lz -lm -lpthread -ldl



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 12:57.