

www.phoronix-test-suite.com

JS-D03-R32_4_2_AN110_CAM_IMX179_j13

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

Test Systems:

eMMC

Processor: ARMv8 rev 0 @ 1.42GHz (6 Cores), Motherboard: NVIDIA Jetson Xavier NX Developer Kit, Memory: 8GB, Disk: 62GB Ultra USB 3.0 + 16GB DG4016, Graphics: NVIDIA TEGRA, Monitor: PHL 247E6

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 7.4.0, 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 --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

USB3.0 Inno

USB2.0 Inno

SD Card Inno

Processor: ARMv8 rev 0 @ 1.42GHz (6 Cores), Motherboard: NVIDIA Jetson Xavier NX Developer Kit, Memory: 8GB, Disk: 16GB USB Drive 3ME + 16GB DG4016, Graphics: NVIDIA Tegra Xavier, Monitor: PHL 247E6

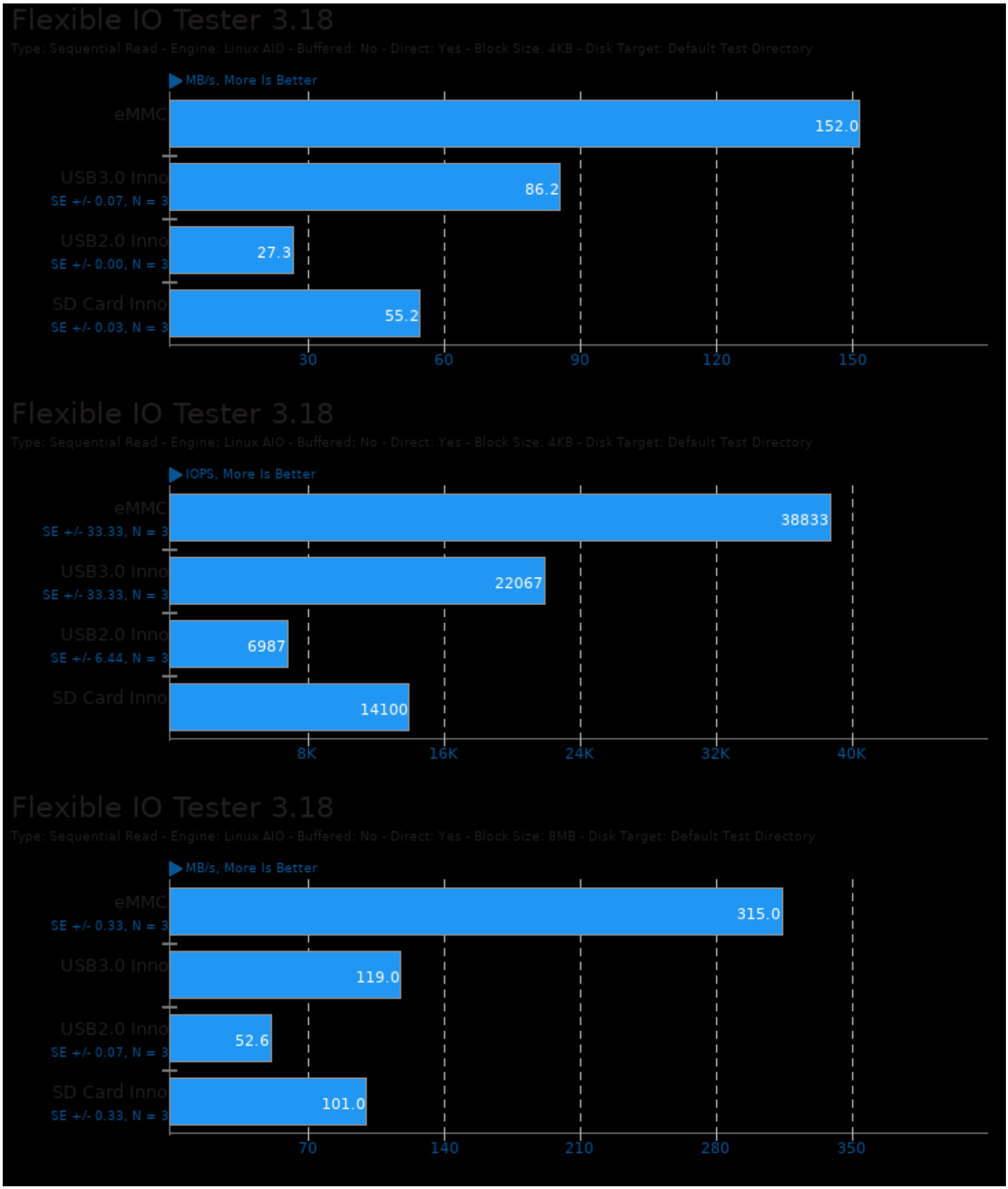
OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.2, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.4.0, File-System: ext4, Screen Resolution: 1920x1080

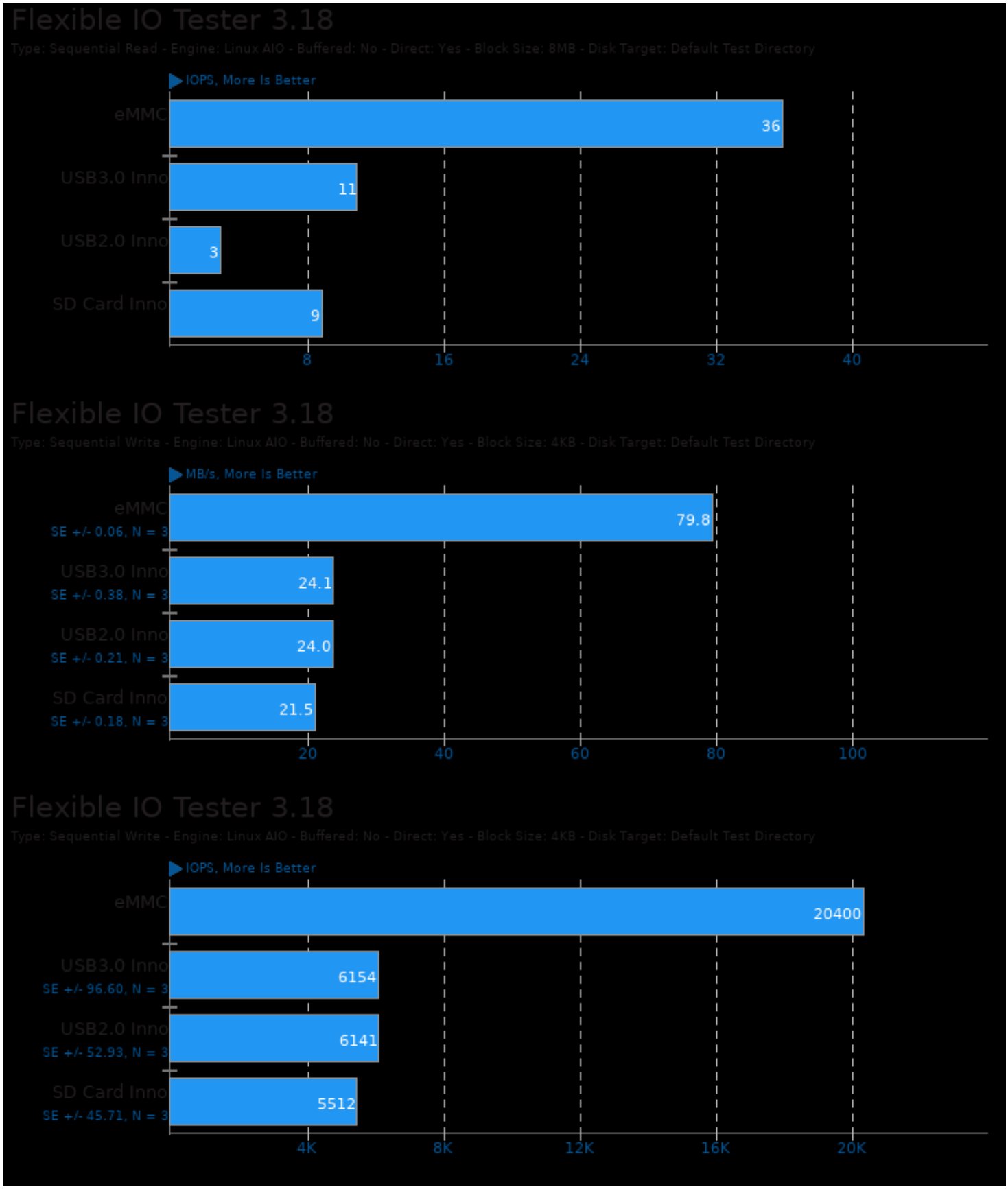
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug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

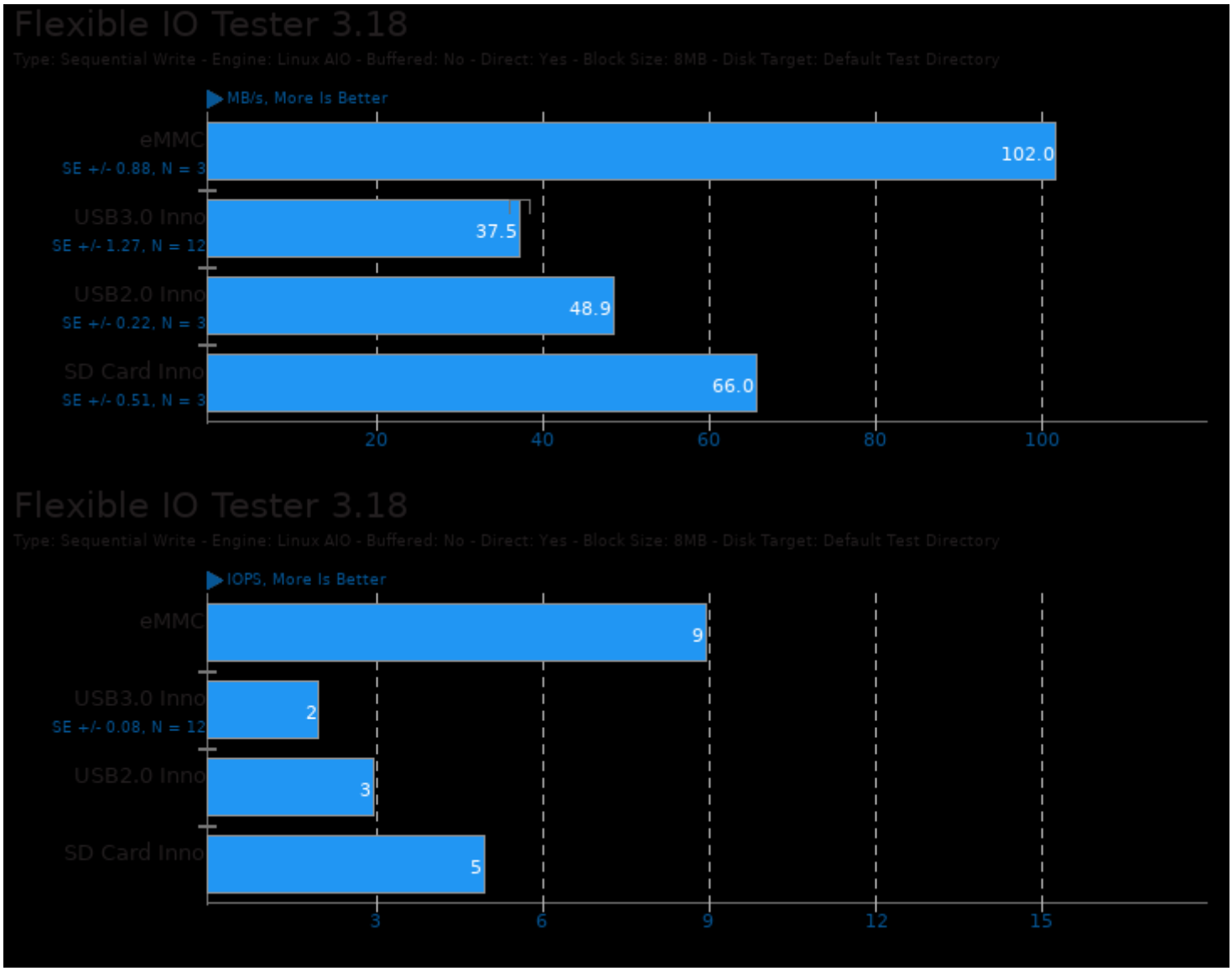
	eMMC	USB3.0 Inno	USB2.0 Inno	SD Card Inno
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	**152**	86.2	**27.3**	55.2
Normalized	100%	56.71%	17.96%	36.32%
Standard Deviation		0.1%	0%	0.1%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	**38833**	22067	**6987**	14100
Normalized	100%	56.83%	17.99%	36.31%
Standard Deviation	0.1%	0.3%	0.2%	
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (MB/s)	**315**	119	**52.6**	101
Normalized	100%	37.78%	16.7%	32.06%
Standard Deviation	0.2%		0.2%	0.6%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (IOPS)	**36**	11	**3**	9
Normalized	100%	30.56%	8.33%	25%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	**79.8**	24.1	24.0	**21.5**
Normalized	100%	30.2%	30.08%	26.94%
Standard Deviation	0.1%	2.8%	1.5%	1.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	**20400**	6154	6141	**5512**
Normalized	100%	30.17%	30.1%	27.02%
Standard Deviation		2.7%	1.5%	1.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (MB/s)	**102**	**37.5**	48.9	66.0
Normalized	100%	36.76%	47.94%	64.71%
Standard Deviation	1.5%	11.7%	0.8%	1.3%

JS-D03-R32_4_2_AN110_CAM_IMX179_j13

Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (IOPS)	9	2	3	5
Normalized	100%	22.22%	33.33%	55.56%
Standard Deviation		15.1%		


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
152.0
USB3.0 Inno
SE +/- 0.07, N = 3
86.2
USB2.0 Inno
SE +/- 0.00, N = 3
27.3
SD Card Inno
SE +/- 0.03, N = 3
55.2
30
60
90
120
150
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 +/- 33.33, N = 3
38833
USB3.0 Inno
SE +/- 33.33, N = 3
22067
USB2.0 Inno
SE +/- 6.44, N = 3
6987
SD Card Inno
14100
8K
16K
24K
32K
40K
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 +/- 0.33, N = 3
315.0
USB3.0 Inno
119.0
USB2.0 Inno
SE +/- 0.07, N = 3
52.6
SD Card Inno
SE +/- 0.33, N = 3
101.0
70
140
210
280
350


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
36
USB3.0 Inno
11
USB2.0 Inno
3
SD Card Inno
9
8
16
24
32
40
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 +/- 0.06, N = 3
79.8
USB3.0 Inno
SE +/- 0.38, N = 3
24.1
USB2.0 Inno
SE +/- 0.21, N = 3
24.0
SD Card Inno
SE +/- 0.18, N = 3
21.5
20
40
60
80
100
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
20400
USB3.0 Inno
SE +/- 96.60, N = 3
6154
USB2.0 Inno
SE +/- 52.93, N = 3
6141
SD Card Inno
SE +/- 45.71, N = 3
5512
4K
8K
12K
16K
20K



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:06.