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ssd

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

Test Systems:

Type-c

Type-c run2

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16384MB, Disk: 256GB Generic + 31GB HBG4a2, 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 32.2.1, OpenGL: 4.6.0, Vulkan: 1.1.85, 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
Processor Notes: Scaling Governor: tegra_cpufreq schedutil
Disk Mount Options Notes: data=ordered,relatime,rw

M.2

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16384MB, Disk: 256GB PLEXTOR PX-256M9PeGN + 62GB Ultra USB 3.0 + 31GB HBG4a2, 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 32.2.1, OpenGL: 4.6.0, Vulkan: 1.1.85, Compiler: GCC 7.4.0, File-System: ext4, Screen Resolution: 1920x1080

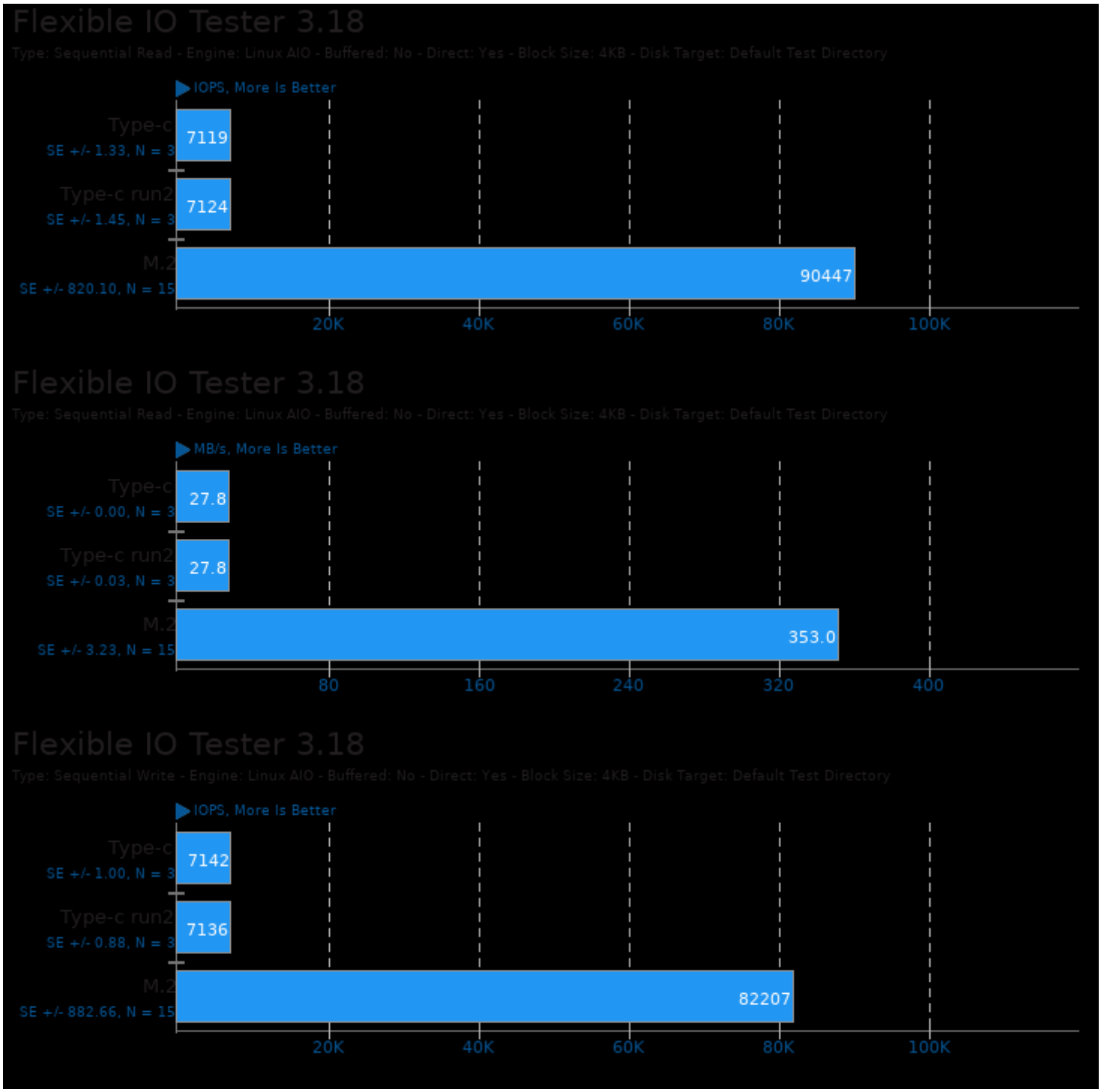
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --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: none / data=ordered,relatime,rw
Processor Notes: Scaling Governor: tegra_cpufreq schedutil

	Type-c	Type-c run2	M.2
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	**7119**	7124	**90447**
Normalized	7.87%	7.88%	100%
Standard Deviation	0%	0%	3.5%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	**27.8**	**27.8**	**353**
Normalized	7.88%	7.88%	100%
Standard Deviation	0%	0.2%	3.5%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	7142	**7136**	**82207**
Normalized	8.69%	8.68%	100%
Standard Deviation	0%	0%	4.2%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	**27.9**	**27.9**	**322**
Normalized	8.66%	8.66%	100%
Standard Deviation	0%	0%	4.1%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (IOPS)	**4**	**4**	**338**
Normalized	1.18%	1.18%	100%
Standard Deviation			1.3%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (MB/s)	**63**	**63**	**2733**
Normalized	2.31%	2.31%	100%
Standard Deviation		0.9%	1.3%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (IOPS)	**5**	**5**	**121**
Normalized	4.13%	4.13%	100%
Standard Deviation			2.7%

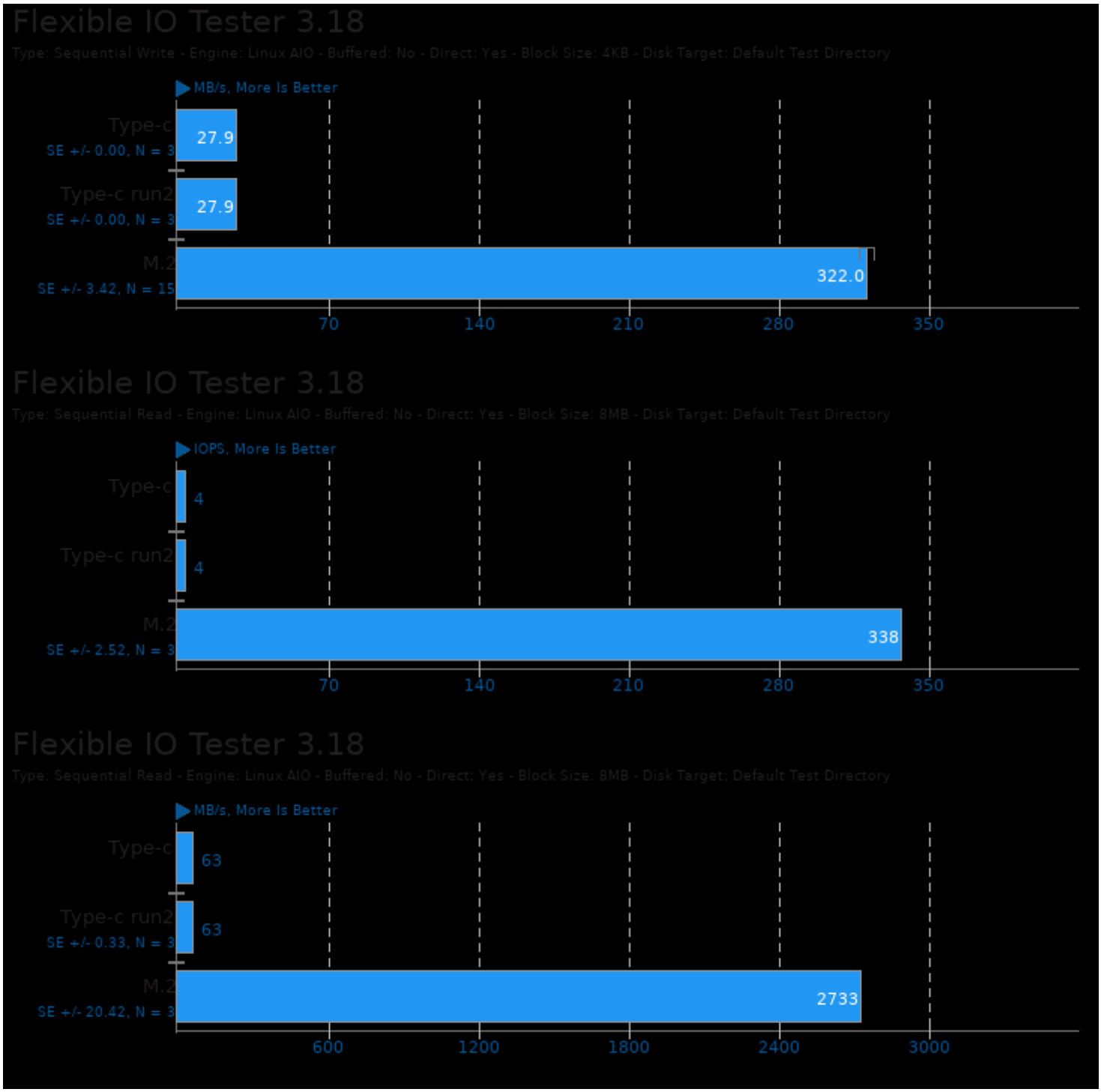
ssd

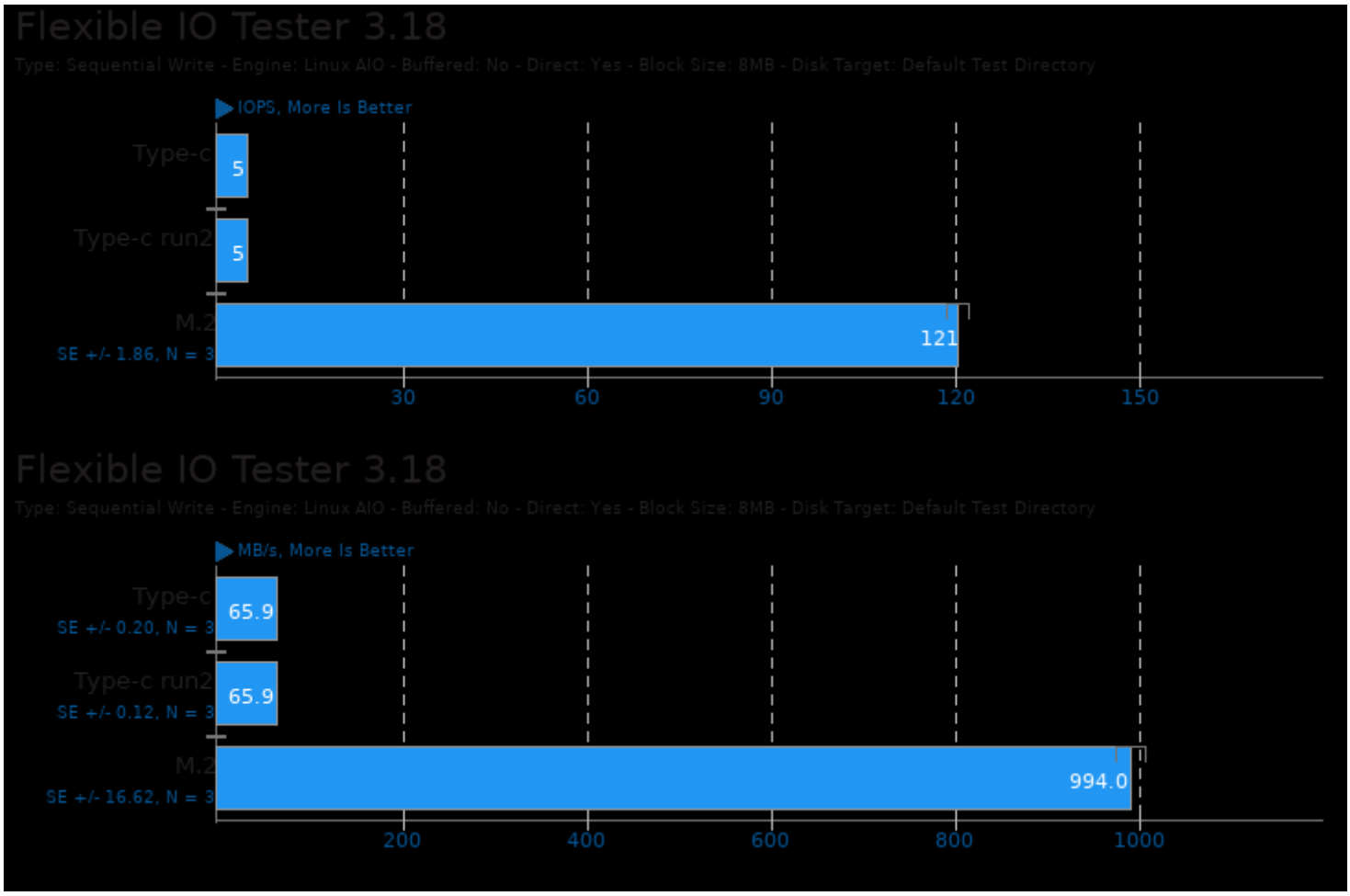
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (MB/s)	**65.9**	**65.9**	**994**
Normalized	6.63%	6.63%	100%
Standard Deviation	0.5%	0.3%	2.9%

ssd


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
Type-c
SE +/- 1.33, N = 3
7119
Type-c run2
SE +/- 1.45, N = 3
7124
M.2
SE +/- 820.10, N = 15
90447
20K
40K
60K
80K
100K
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
Type-c
SE +/- 0.00, N = 3
27.8
Type-c run2
SE +/- 0.03, N = 3
27.8
M.2
SE +/- 3.23, N = 15
353.0
80
160
240
320
400
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
Type-c
SE +/- 1.00, N = 3
7142
Type-c run2
SE +/- 0.88, N = 3
7136
M.2
SE +/- 882.66, N = 15
82207
20K
40K
60K
80K
100K

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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
Type-c
SE +/- 0.00, N = 3
27.9
Type-c run2
SE +/- 0.00, N = 3
27.9
M.2
SE +/- 3.42, N = 15
322.0
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
Type-c
4
Type-c run2
4
M.2
SE +/- 2.52, N = 3
338
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
MB/s, More Is Better
Type-c
63
Type-c run2
SE +/- 0.33, N = 3
63
M.2
SE +/- 20.42, N = 3
2733
600
1200
1800
2400
3000



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 04:52.