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docker testing on Ubuntu 20.04.2 LTS via the Phoronix Test Suite.

Test Systems:

20210720_2nd

Processor: Intel Core i5-8600K @ 4.30GHz (6 Cores), Motherboard: ASRock Z390 Extreme4 (P1.80 BIOS), Memory: 32GB, Disk: 512GB INTEL SSDPEKKW512G8 + 3001GB Western Digital WD30EFRX-68E, Audio: Realtek ALC1220

OS: Ubuntu 20.04.2 LTS, Kernel: 4.15.0-66-generic (x86_64), Display Driver: NVIDIA, Compiler: GCC 9.3.0 + CUDA 11.2, File-System: nfs, System Layer: docker

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xb4
Disk Scheduler Notes: NONE

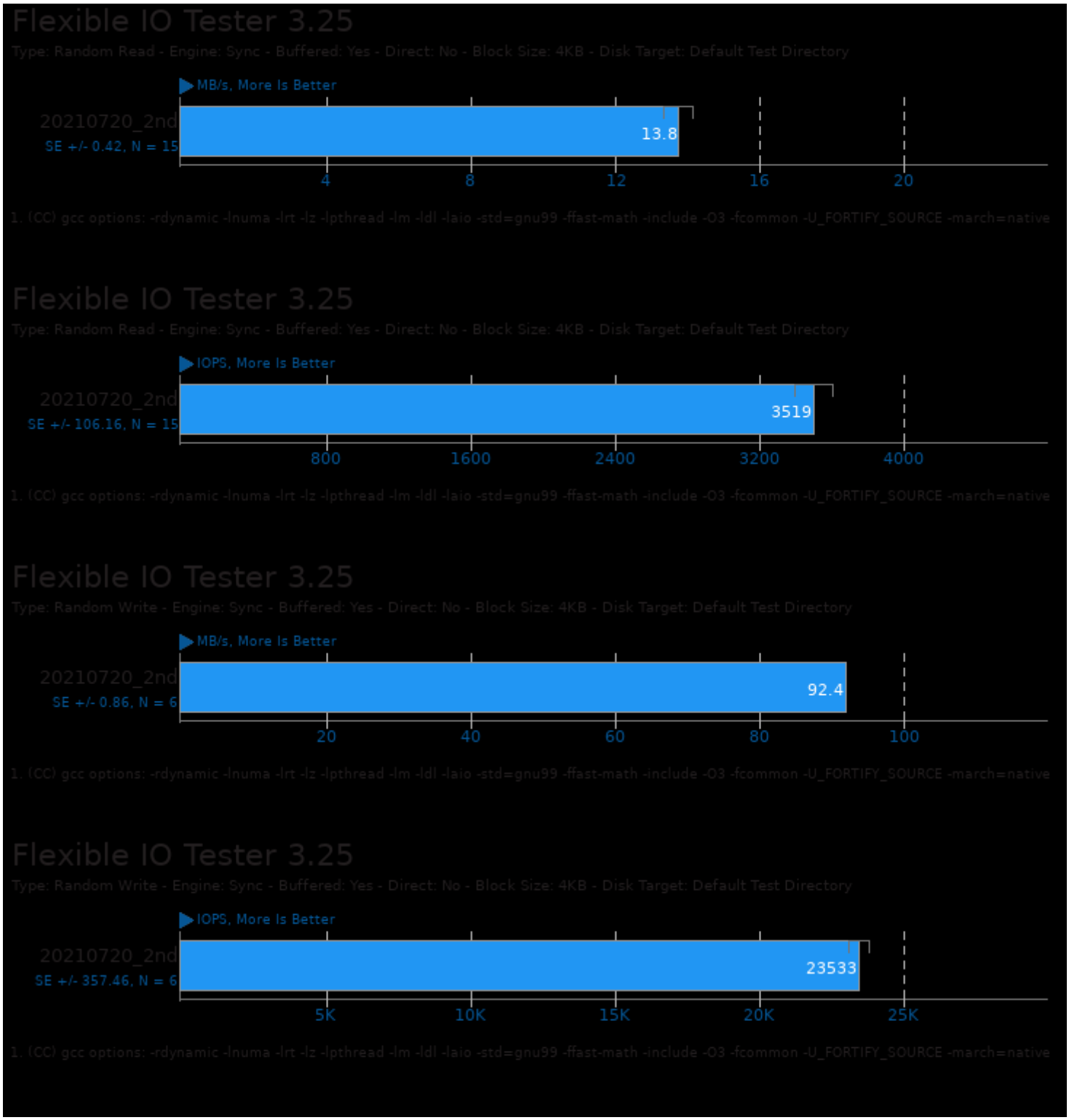
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Security Notes: l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT disabled + mds: Mitigation of Clear buffers; SMT disabled + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: disabled RSB filling

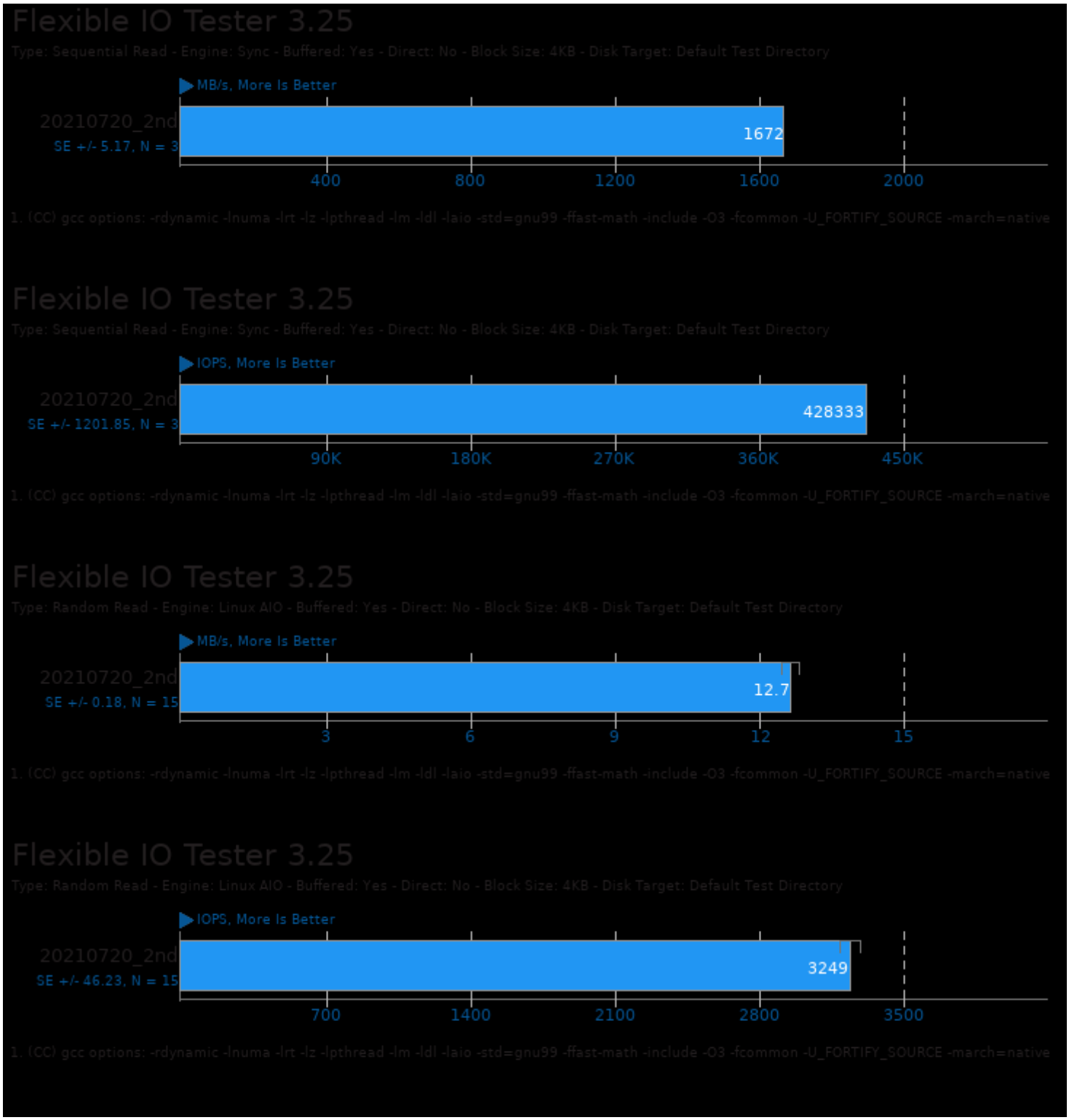
	20210720_2nd
Flexible IO Tester - Rand Read - Sync - Yes - No - 4KB (MB/s)	13.8
Standard Deviation	11.7%
Flexible IO Tester - Rand Read - Sync - Yes - No - 4KB (IOPS)	3519
Standard Deviation	11.7%
Flexible IO Tester - Rand Write - Sync - Yes - No - 4KB (MB/s)	92.4
Standard Deviation	2.3%
Flexible IO Tester - Rand Write - Sync - Yes - No - 4KB (IOPS)	23533
Standard Deviation	3.7%
Flexible IO Tester - Seq Read - Sync - Yes - No - 4KB (MB/s)	1672
Standard Deviation	0.5%
Flexible IO Tester - Seq Read - Sync - Yes - No - 4KB (IOPS)	428333
Standard Deviation	0.5%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 4KB (MB/s)	12.7
Standard Deviation	5.5%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 4KB (IOPS)	3249
Standard Deviation	5.5%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 4KB (MB/s)	13.8
Standard Deviation	10.1%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 4KB (IOPS)	3522
Standard Deviation	10.2%
Flexible IO Tester - Seq Write - Sync - Yes - No - 4KB (MB/s)	112
Standard Deviation	1%
Flexible IO Tester - Seq Write - Sync - Yes - No - 4KB (IOPS)	28600
Standard Deviation	0.6%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 4KB (MB/s)	90.5
Standard Deviation	1%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 4KB (IOPS)	23167
Standard Deviation	1%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 4KB (MB/s)	97.2
Standard Deviation	0.5%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 4KB (IOPS)	24867
Standard Deviation	0.5%
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 4KB (MB/s)	1164
Standard Deviation	2.1%
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 4KB (IOPS)	298333
Standard Deviation	2.2%
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 4KB (MB/s)	1242
Standard Deviation	2.3%
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 4KB (IOPS)	318000
Standard Deviation	2.4%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 4KB (MB/s)	111
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 4KB (IOPS)	28433
Standard Deviation	0.2%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 4KB (MB/s)	106
Standard Deviation	1.4%

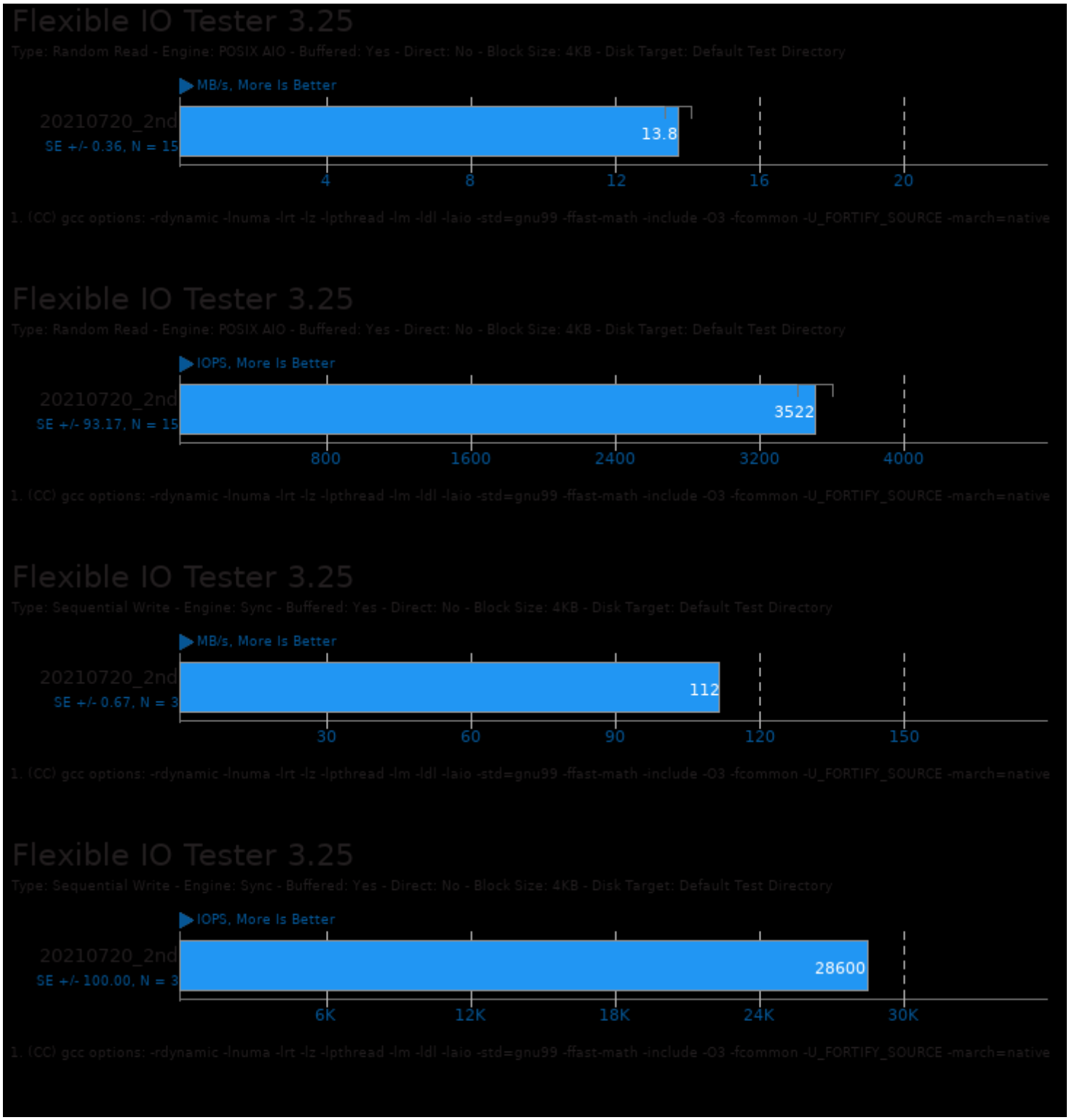
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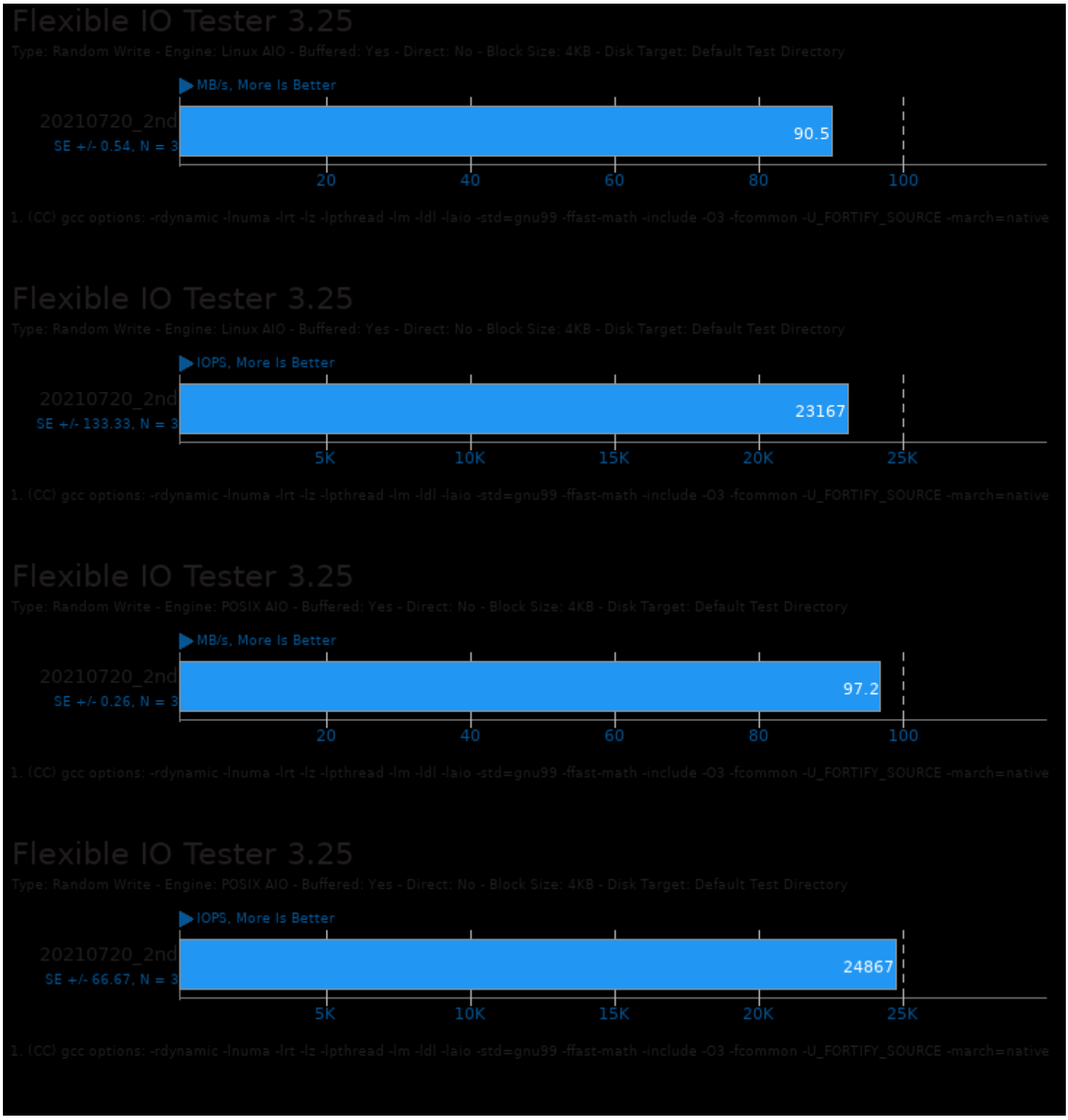
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 4KB (IOPS)	27200
Standard Deviation	1.5%
TensorFlow Lite - I.R.V (us)	3982101
Standard Deviation	2.4%
Sysbench - RAM / Memory (MiB/sec)	13323
Standard Deviation	4.1%
Sysbench - CPU (Events/sec)	8482
Standard Deviation	2.1%

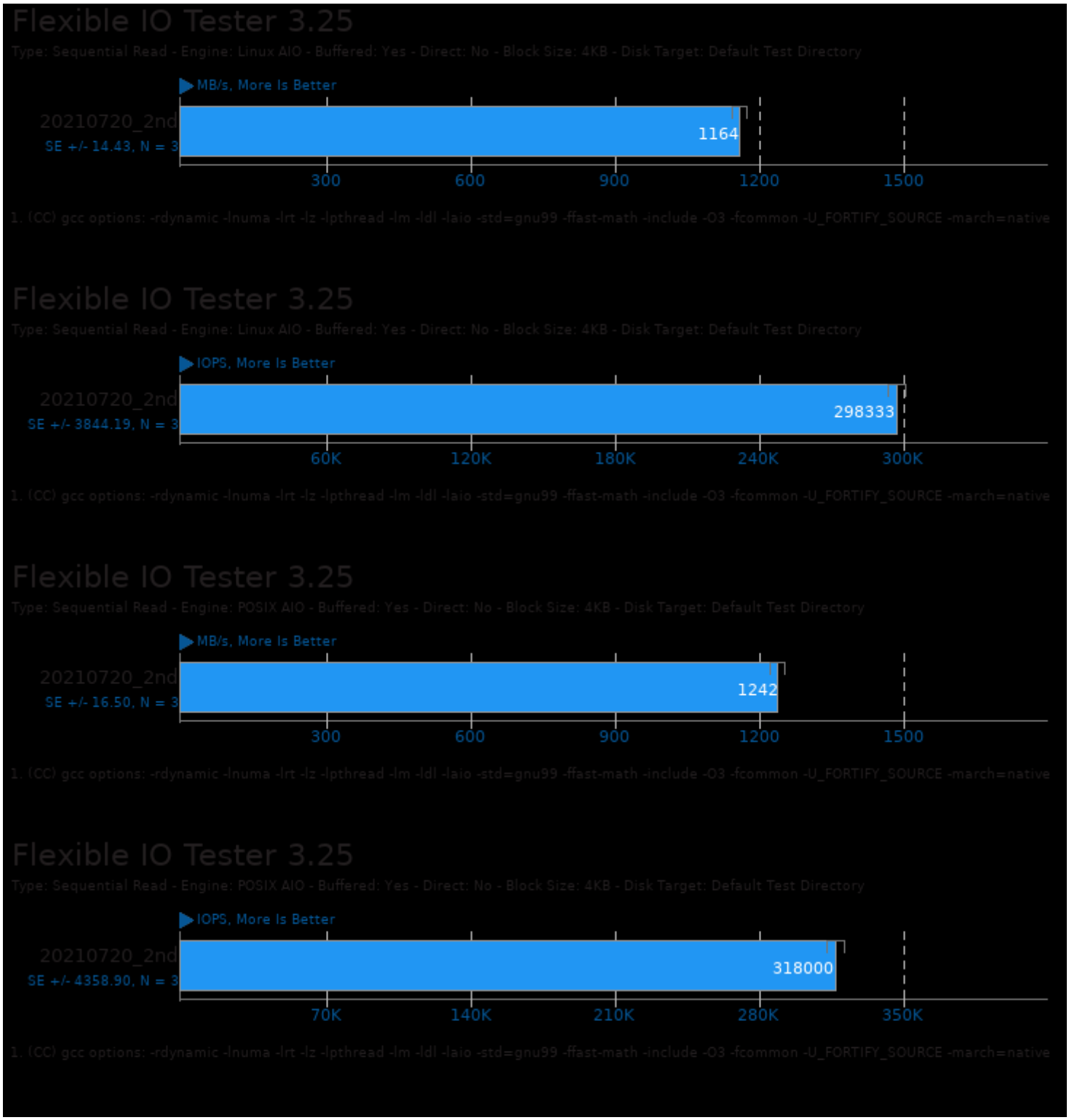

Flexible IO Tester 3.25
Type: Random Read - Engine: Sync - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
20210720_2nd
SE +/- 0.42, N = 15
13.8
4
8
12
16
20
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Read - Engine: Sync - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
20210720_2nd
SE +/- 106.16, N = 15
3519
800
1600
2400
3200
4000
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: Sync - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
20210720_2nd
SE +/- 0.86, N = 6
92.4
20
40
60
80
100
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: Sync - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
20210720_2nd
SE +/- 357.46, N = 6
23533
5K
10K
15K
20K
25K
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

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Flexible IO Tester 3.25
Type: Sequential Read - Engine: Sync - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
20210720_2nd
SE +/- 5.17, N = 3
1672
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Read - Engine: Sync - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
20210720_2nd
SE +/- 1201.85, N = 3
428333
90K
180K
270K
360K
450K
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
20210720_2nd
SE +/- 0.18, N = 15
12.7
3
6
9
12
15
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
20210720_2nd
SE +/- 46.23, N = 15
3249
700
1400
2100
2800
3500
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
20210720_2nd
SE +/- 0.36, N = 15
13.8
4
8
12
16
20
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
20210720_2nd
SE +/- 93.17, N = 15
3522
800
1600
2400
3200
4000
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Write - Engine: Sync - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
20210720_2nd
SE +/- 0.67, N = 3
112
30
60
90
120
150
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Write - Engine: Sync - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
20210720_2nd
SE +/- 100.00, N = 3
28600
6K
12K
18K
24K
30K
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
20210720_2nd
SE +/- 0.54, N = 3
90.5
20
40
60
80
100
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
20210720_2nd
SE +/- 133.33, N = 3
23167
5K
10K
15K
20K
25K
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
20210720_2nd
SE +/- 0.26, N = 3
97.2
20
40
60
80
100
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
20210720_2nd
SE +/- 66.67, N = 3
24867
5K
10K
15K
20K
25K
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
20210720_2nd
SE +/- 14.43, N = 3
1164
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
20210720_2nd
SE +/- 3844.19, N = 3
298333
60K
120K
180K
240K
300K
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
20210720_2nd
SE +/- 16.50, N = 3
1242
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
20210720_2nd
SE +/- 4358.90, N = 3
318000
70K
140K
210K
280K
350K
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

Flexible IO Tester 3.25

Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

Flexible IO Tester 3.25

Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

Flexible IO Tester 3.25

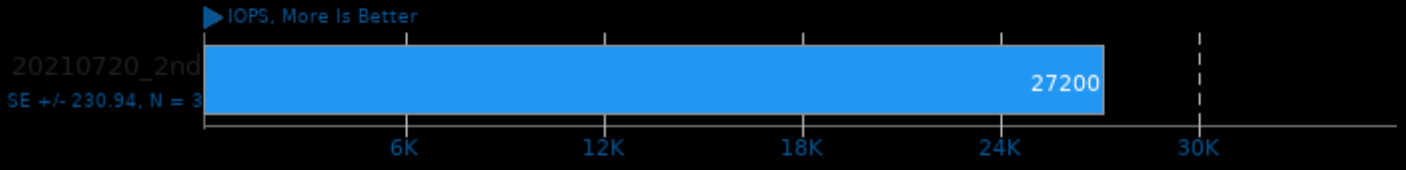
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

Flexible IO Tester 3.25

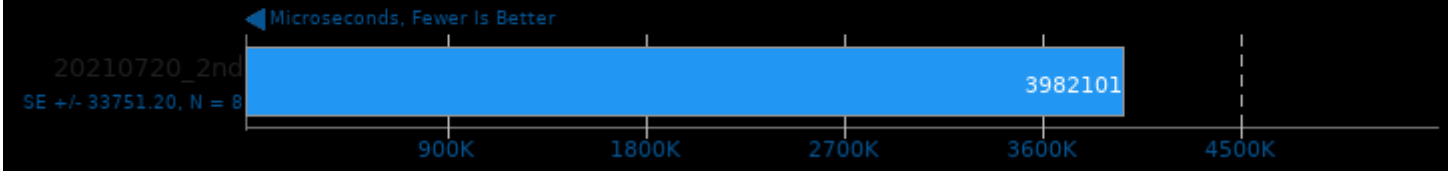
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory

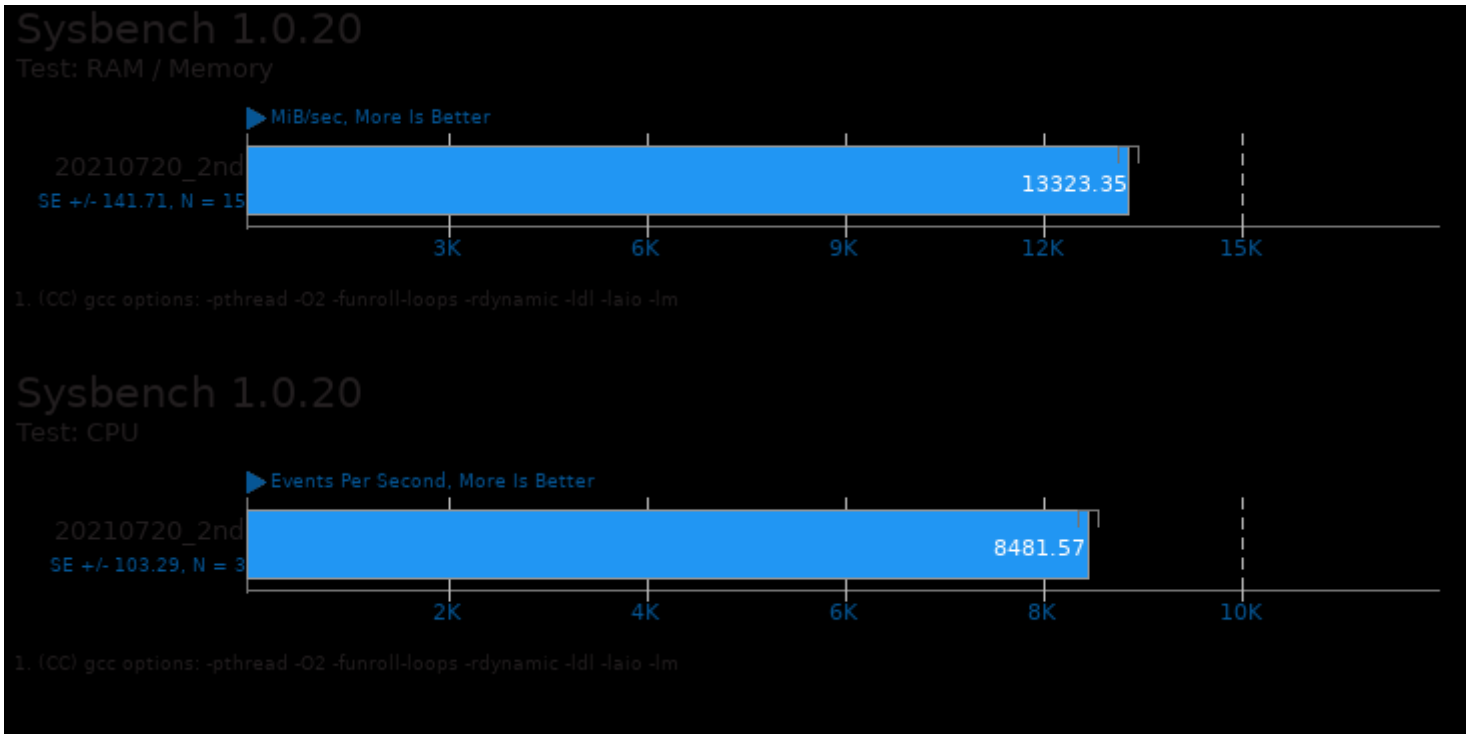


1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

TensorFlow Lite 2020-08-23

Model: Inception ResNet V2





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