

www.phoronix-test-suite.com

kp100-kyv10_build

Unknown testing with a THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS) and llvmpipe on Linx 10 via the Phoronix Test Suite.

Test Systems:

kp100-kyv10_build

Processor: Unknown @ 2.60GHz (64 Cores), Motherboard: THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS), Chipset: Huawei HiSilicon, Memory: 4 x 16384 MB DDR4-2933MT/s Hynix HMA82GR7CJR8N-WM, Disk: 240GB SAMSUNG MZ7LH240 + 1999GB HW-SAS3508, Graphics: llvmpipe, Monitor: S24D300, Network: 4 x Huawei HNS GE/10GE/25GE

OS: Linx 10, Kernel: 4.19.0-11-linx-security-arm64 (aarch64), Display Server: X Server 1.20.4, OpenGL: 3.3 Mesa 18.3.6 (LLVM 7.0 128 bits), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 3840x1200

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libphobos --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --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: MQ-DEADLINE / errors=remount-ro,relatime,rw,stripe=64 / Block Size: 4096
Processor Notes: Scaling Governor: cppc_cpufreq performance
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Not affected + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Not affected + srbds: Not affected + tsx_async_abort: Not affected

kyv10

Processor: HUAWEI Kunpeng 920 @ 2.60GHz (64 Cores), Motherboard: THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS), Chipset: Huawei HiSilicon, Memory: 4 x 16384 MB DDR4-2933MT/s Hynix HMA82GR7CJR8N-WM, Disk: 240GB SAMSUNG MZ7LH240 + 1999GB HW-SAS3508, Graphics: Huawei Hi171x [iBMC Intelligent Management chip w/VGA support], Network: 4 x Huawei HNS GE/10GE/25GE

OS: Kylin Linux Advanced Server V10, Kernel: 4.19.90-24.4.v2101.ky10.aarch64 (aarch64) 20210524, Display Server: X Server 1.20.8, Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: madvise
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=64 / Block Size: 4096
Processor Notes: Scaling Governor: cppc_cpufreq performance
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Not affected + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Not affected + srbds: Not affected + tsx_async_abort: Not affected

KP100_linx6

Processor: Unknown @ 2.60GHz (64 Cores), Motherboard: THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS), Chipset: Huawei HiSilicon, Memory: 4 x 16384 MB DDR4-2933MT/s Hynix HMA82GR7CJR8N-WM, Disk: 240GB SAMSUNG MZ7LH240 + 1999GB HW-SAS3508, Graphics: llvmpipe, Monitor: S24D300, Network: 4 x Huawei HNS GE/10GE/25GE

OS: Linx 10, Kernel: 4.19.0-11-linx-security-arm64 (aarch64), Display Server: X Server 1.20.4, OpenGL: 3.3 Mesa 18.3.6 (LLVM 7.0 128 bits), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 3840x1200

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libphobos --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --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: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: cppc_cpufreq performance
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Not affected + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Not affected + srbds: Not affected + tsx_async_abort: Not affected

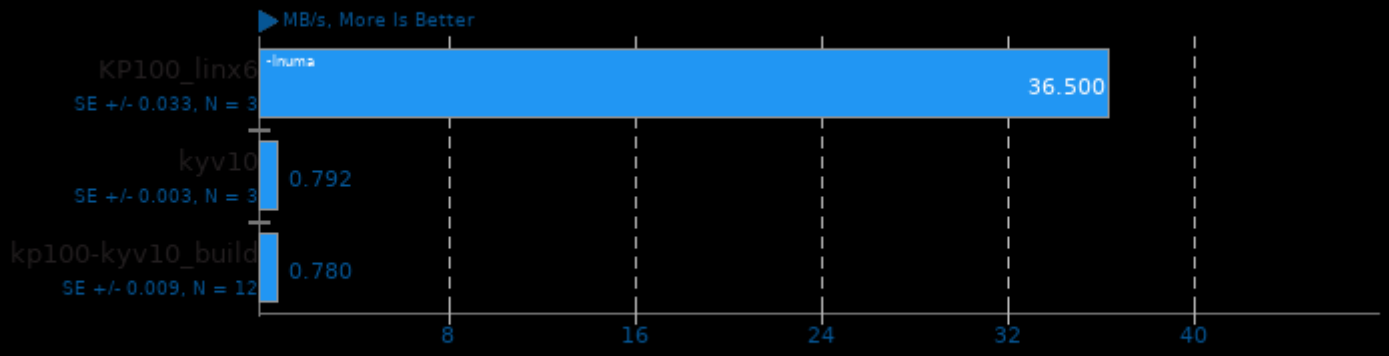
	kp100-kyv10_build	kyv10	KP100_linx6
Flexible IO Tester - Rand Read - POSIX AIO - Yes - Yes - 4KB (MB/s)	**0.780**	0.792	**36.5**
Normalized	2.14%	2.17%	100%
Standard Deviation	3.9%	0.7%	0.2%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - Yes - 4KB (IOPS)	**192**	195	**9355**
Normalized	2.05%	2.08%	100%
Standard Deviation	4.1%		0.1%

kp100-kyv10_build

Flexible IO Tester - Rand Write - POSIX AIO - Yes - Yes - 4KB (MB/s)	**167**	183	**215**
Normalized	77.67%	85.12%	100%
Standard Deviation	1.2%	0.6%	2.9%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - Yes - 4KB (IOPS)	**42767**	46700	**55025**
Normalized	77.72%	84.87%	100%
Standard Deviation	1.1%	0.7%	3%
Flexible IO Tester - Seq Read - POSIX AIO - Yes - Yes - 4KB (MB/s)	**181**	196	**453**
Normalized	39.96%	43.27%	100%
Standard Deviation	0.6%	0.5%	
Flexible IO Tester - Seq Read - POSIX AIO - Yes - Yes - 4KB (IOPS)	**46467**	50100	**116000**
Normalized	40.06%	43.19%	100%
Standard Deviation	0.5%	0.4%	
Flexible IO Tester - Seq Write - POSIX AIO - Yes - Yes - 4KB (MB/s)	**174**	184	**251**
Normalized	69.32%	73.31%	100%
Standard Deviation	1.2%	1.7%	
Flexible IO Tester - Seq Write - POSIX AIO - Yes - Yes - 4KB (IOPS)	**44400**	47200	**63833**
Normalized	69.56%	73.94%	100%
Standard Deviation	1.1%	1.7%	1.2%

Flexible IO Tester 3.25

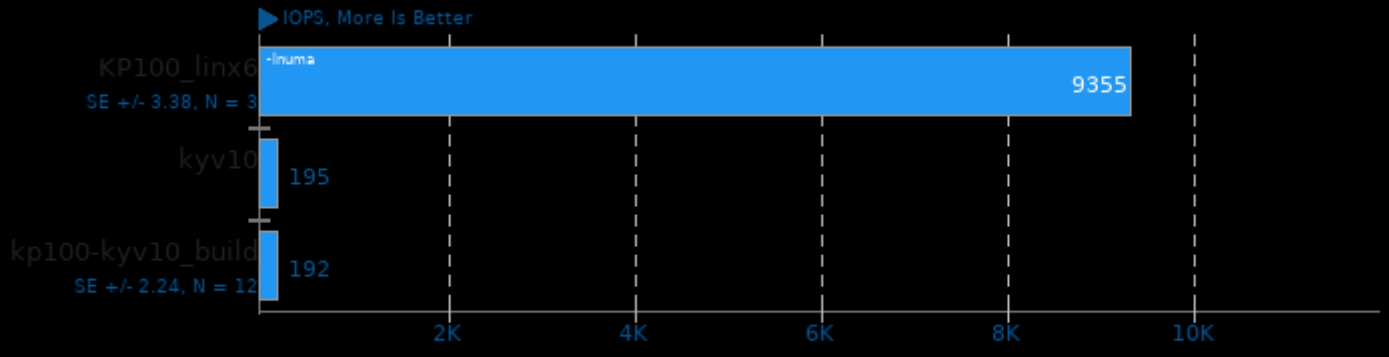
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.25

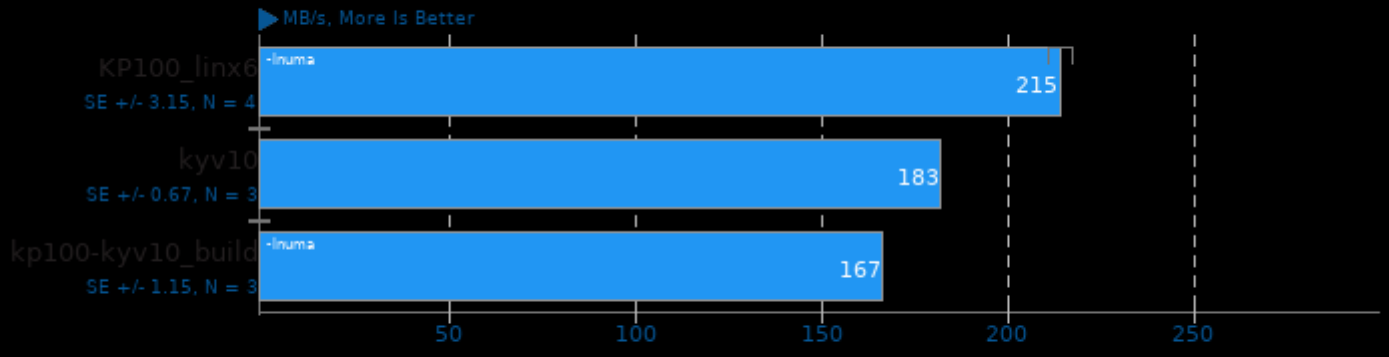
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



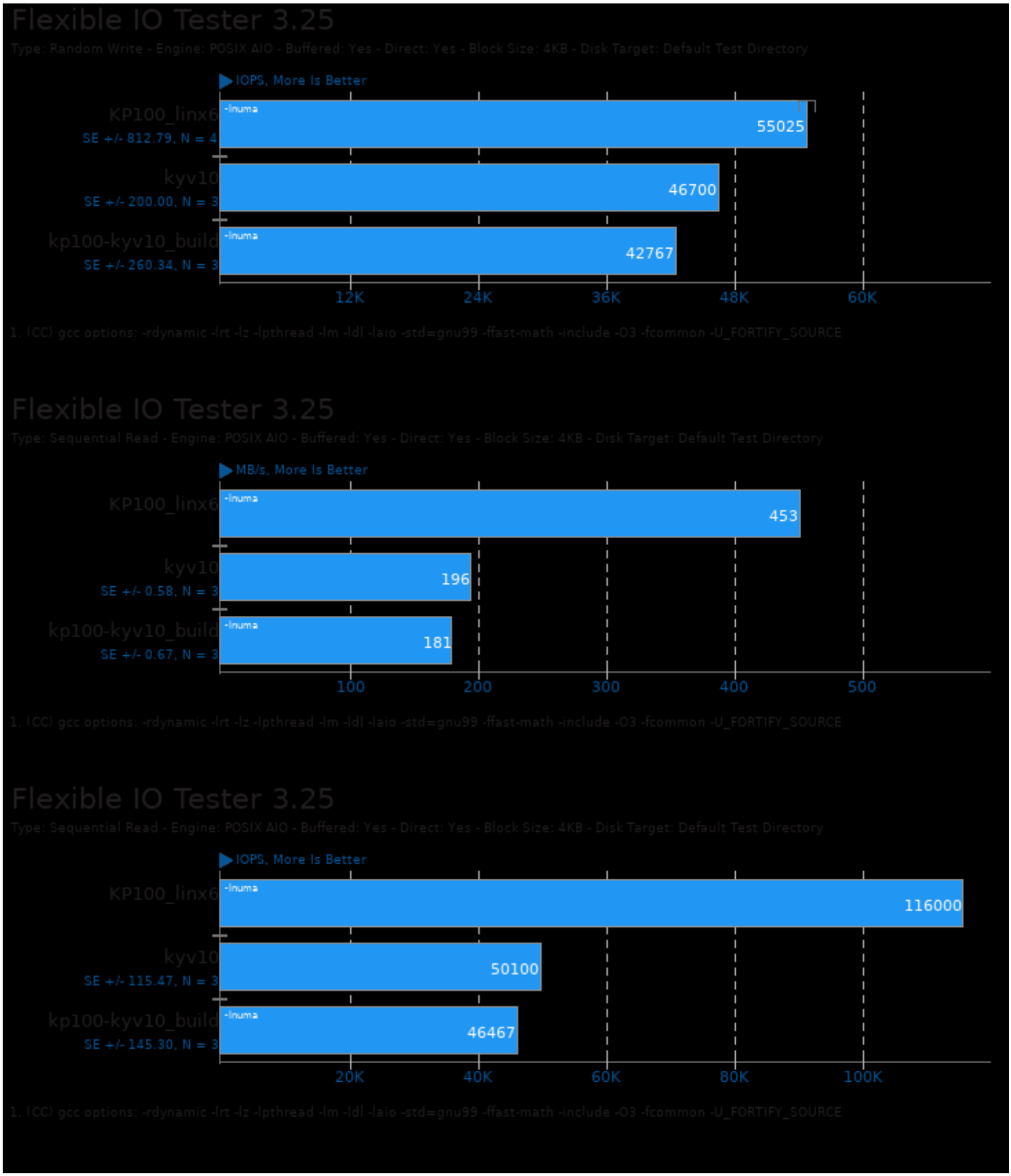
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

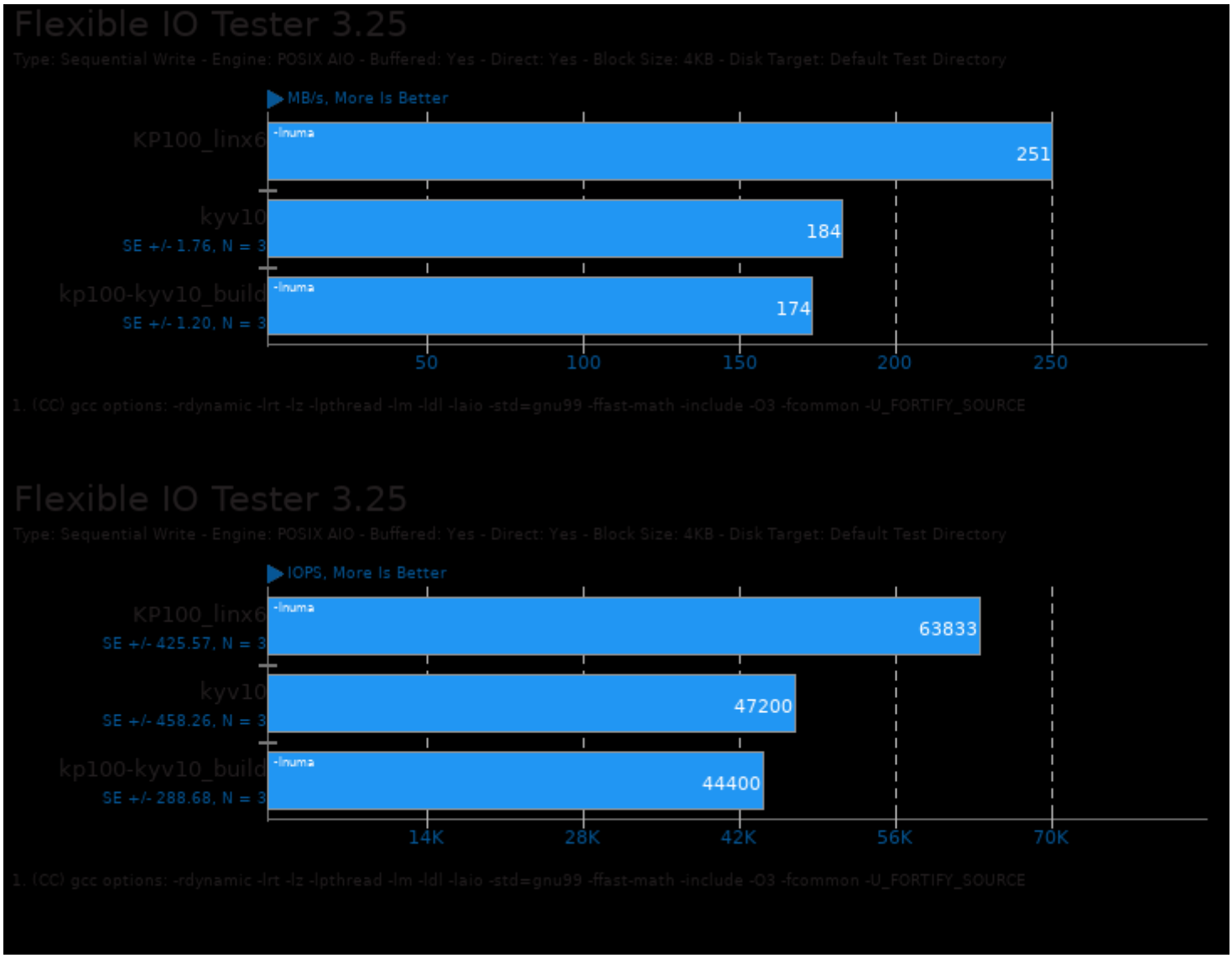
Flexible IO Tester 3.25

Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



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


Flexible IO Tester 3.25
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
KP100_linx6
SE +/- 812.79, N = 4
-lnuma
55025
kyv10
SE +/- 200.00, N = 3
46700
kp100-kyv10_build
SE +/- 260.34, N = 3
-lnuma
42767
12K
24K
36K
48K
60K
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.25
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
KP100_linx6
-lnuma
453
kyv10
SE +/- 0.58, N = 3
196
kp100-kyv10_build
SE +/- 0.67, N = 3
-lnuma
181
100
200
300
400
500
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.25
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
KP100_linx6
-lnuma
116000
kyv10
SE +/- 115.47, N = 3
50100
kp100-kyv10_build
SE +/- 145.30, N = 3
-lnuma
46467
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:03.