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fio-performance

HUAWEI Kunpeng 920 testing with a THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS) and llvmpipe on Kylin Linux Advanced Server V10 via the Phoronix Test Suite.

Automated Executive Summary

kyv10 had the most wins, coming in first place for 30% of the tests.

Based on the geometric mean of all complete results, the fastest (kyv10) was 1.037x the speed of the slowest (linx100-buildinkyv10). linx100-kyv10 was 0.986x the speed of kyv10, linx100-anolis was 0.991x the speed of linx100-kyv10, linx100 was 0.996x the speed of linx100-anolis, linx100-buildinkyv10 was 0.991x the speed of linx100.

The results with the greatest spread from best to worst included:

Flexible IO Tester (Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory) at 1.285x
Flexible IO Tester (Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory) at 1.285x
Flexible IO Tester (Type: Sequential Read - Engine: POSIX AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory) at 1.176x
Flexible IO Tester (Type: Sequential Read - Engine: POSIX AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory) at 1.175x

Flexible IO Tester (Type: Sequential Read - Engine: POSIX AIO - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory) at 1.148x
Flexible IO Tester (Type: Sequential Read - Engine: POSIX AIO - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory) at 1.147x
Flexible IO Tester (Type: Sequential Read - Engine: POSIX AIO - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory) at 1.101x
Flexible IO Tester (Type: Sequential Read - Engine: POSIX AIO - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory) at 1.101x
Flexible IO Tester (Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory) at 1.07x
Flexible IO Tester (Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory) at 1.069x.

Test Systems:

linx100-buildinkyv10

Processor: Unknown (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: 1999GB HW-SAS3508, Graphics: llvmpipe, Monitor: S24D300, Network: 4 x Huawei HNS GE/10GE/25GE

OS: Linx 10, Kernel: 4.19.90+ (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: 1920x1080

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
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

linx100-kyv10

Processor: HUAWEI Kunpeng 920 (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: 1999GB HW-SAS3508, Graphics: llvmpipe, Network: 4 x Huawei HNS GE/10GE/25GE

OS: Linx 10, Kernel: 4.19.90-25.14.v2101.ky10.aarch64 (aarch64) 20220415, 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: 1024x768

Kernel Notes: Transparent Huge Pages: madvise
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
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

linx100

Processor: Unknown (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: 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: 1920x1080

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
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

linx100-anolis

Processor: Unknown (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: 1999GB HW-SAS3508, Graphics: llvmpipe, Network: 4 x Huawei HNS GE/10GE/25GE

OS: Linx 10, Kernel: 4.19.91 (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: 1024x768

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
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 (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: 1999GB HW-SAS3508, Graphics: llvmpipe, 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, Desktop: MATE, Display Server: X Server 1.20.8, OpenGL: 3.3 Mesa 20.1.4 (LLVM 10.0.1 128 bits), 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
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

	linx100-buildink	linx100-kyv10	linx100	linx100-anolis	kyv10
	yv10				

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Flexible IO Tester - Rand Read - IO_uring - No - Yes - 4KB (MB/s)	**2.365**		2.434	**2.470**	
Normalized	95.75%		98.54%	100%	
Standard Deviation	10.4%		2.4%	2.4%	
Flexible IO Tester - Rand Read - IO_uring - No - Yes - 4KB (IOPS)	**588**		605	**614**	
Normalized	95.77%		98.53%	100%	
Standard Deviation	10.4%		2.4%	2.4%	
Flexible IO Tester - Rand Read - IO_uring - No - Yes - 16KB	**9.731**		**9.259**	9.563	
Normalized	100%		95.15%	98.27%	
Standard Deviation	2.3%		5.6%	2.1%	
Flexible IO Tester - Rand Read - IO_uring - No - Yes - 16KB	**605**		**575**	594	
Normalized	100%		95.04%	98.18%	
Standard Deviation	2.3%		5.7%	2.1%	
Flexible IO Tester - Rand Read - IO_uring - No - Yes - 32KB	**18.1**		**18.1**	**17.3**	
Normalized	100%		100%	95.58%	
Standard Deviation	2.4%		0.6%	5.5%	
Flexible IO Tester - Rand Read - IO_uring - No - Yes - 32KB	**577**		576	**549**	
Normalized	100%		99.83%	95.15%	
Standard Deviation	2.5%			5.6%	
Flexible IO Tester - Rand Read - IO_uring - No - Yes - 64KB	32.4		32.4	32.4	
Standard Deviation	0.8%		0.2%	1.3%	
Flexible IO Tester - Rand Read - IO_uring - No - Yes - 64KB	**515**		**514**	**514**	
Normalized	100%		99.81%	99.81%	
Standard Deviation	0.8%		0.2%	1.4%	
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB	2.497	**2.540**	2.533	**2.483**	2.507
Normalized	98.31%	100%	99.72%	97.76%	98.7%
Standard Deviation	6.7%	1.6%	1.3%	0.3%	1%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB	621	**632**	630	**617**	623
Normalized	98.26%	100%	99.68%	97.63%	98.58%
Standard Deviation	6.8%	1.6%	1.4%	0.2%	1%
Flexible IO Tester - Rand Read - POSIX AIO - No - Yes - 4KB (MB/s)	0.697	**0.702**	**0.702**	0.699	**0.696**
Normalized	99.29%	100%	100%	99.57%	99.15%
Standard Deviation	1.6%	0.4%	1.5%	2.2%	0.6%
Flexible IO Tester - Rand Read - POSIX AIO - No - Yes - 4KB (IOPS)	**171**	**172**	**172**	**171**	**171**
Normalized	99.42%	100%	100%	99.42%	99.42%
Standard Deviation	1.5%	0.6%	1.7%	2.3%	0.7%
Flexible IO Tester - Rand Write - IO_uring - No - Yes - 4KB (MB/s)	**2.432**		2.486	**2.557**	
Normalized	95.11%		97.22%	100%	
Standard Deviation	1.8%		2.4%	3%	

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Flexible IO Tester - Rand Write - IO_uring - No - Yes - 4KB (IOPS)	**604**		618	**636**	
Normalized	94.97%		97.17%	100%	
Standard Deviation	1.9%		2.4%	3%	
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 16KB	**9.643**	9.532	9.553	9.584	**9.496**
Normalized	100%	98.85%	99.07%	99.39%	98.48%
Standard Deviation	2.3%	1.1%	2.1%	2.4%	1.9%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 16KB (IOPS)	**599**	592	594	595	**590**
Normalized	100%	98.83%	99.17%	99.33%	98.5%
Standard Deviation	2.2%	1%	2.1%	2.5%	1.9%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 32KB	17.7	**18.2**	18.1	17.8	**17.6**
Normalized	97.25%	100%	99.45%	97.8%	96.7%
Standard Deviation	1.6%	1.9%	1.4%	2.3%	4.7%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 32KB (IOPS)	563	**578**	576	566	**561**
Normalized	97.4%	100%	99.65%	97.92%	97.06%
Standard Deviation	1.6%	2.1%	1.3%	2.2%	4.7%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 64KB	**32.3**	31.8	31.6	**31.5**	31.7
Normalized	100%	98.45%	97.83%	97.52%	98.14%
Standard Deviation	1.2%	1.6%	1.9%	1.1%	2%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 64KB (IOPS)	**514**	505	502	**501**	504
Normalized	100%	98.25%	97.67%	97.47%	98.05%
Standard Deviation	1.3%	1.8%	2%	1.2%	2.1%
Flexible IO Tester - Rand Read - POSIX AIO - No - Yes - 16KB (MB/s)	2.764	**2.738**	2.768	**2.778**	2.755
Normalized	99.5%	98.56%	99.64%	100%	99.17%
Standard Deviation	2.4%	1%	2.2%	2.4%	1.7%
Flexible IO Tester - Rand Read - POSIX AIO - No - Yes - 16KB (IOPS)	169	**167**	169	**170**	168
Normalized	99.41%	98.24%	99.41%	100%	98.82%
Standard Deviation	2.6%	0.9%	2.4%	2.4%	1.7%
Flexible IO Tester - Rand Read - POSIX AIO - No - Yes - 32KB (MB/s)	5.409	5.498	5.407	**5.358**	**5.525**
Normalized	97.9%	99.51%	97.86%	96.98%	100%
Standard Deviation	7.9%	1.4%	2%	3.4%	0.8%
Flexible IO Tester - Rand Read - POSIX AIO - No - Yes - 32KB (IOPS)	165	168	165	**164**	**169**
Normalized	97.63%	99.41%	97.63%	97.04%	100%
Standard Deviation	8.1%	1.6%	1.9%	3.5%	0.9%

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Flexible IO Tester - Rand Read - POSIX AIO - No - Yes - 64KB (MB/s)	**10.4**	10.3	**10.2**	10.3	10.3
Normalized	100%	99.04%	98.08%	99.04%	99.04%
Standard Deviation	0.6%	1%	0.6%	2%	0.6%
Flexible IO Tester - Rand Read - POSIX AIO - No - Yes - 64KB (IOPS)	**163**	161	**160**	161	**160**
Normalized	100%	98.77%	98.16%	98.77%	98.16%
Standard Deviation		0.6%	0.6%	2.2%	0.7%
Flexible IO Tester - Rand Write - IO_uring - No - Yes - 16KB	**9.604**		9.612	**9.79**	
Normalized	98.1%		98.18%	100%	
Standard Deviation	0.9%		3.5%	0.1%	
Flexible IO Tester - Rand Write - IO_uring - No - Yes - 16KB	**596**		598	**623**	
Normalized	95.67%		95.99%	100%	
Standard Deviation	0.9%		3.7%		
Flexible IO Tester - Rand Write - IO_uring - No - Yes - 32KB	**17.9**		**18.4**	**18.4**	
Normalized	97.28%		100%	100%	
Standard Deviation	1.4%		2.7%	0.5%	
Flexible IO Tester - Rand Write - IO_uring - No - Yes - 32KB	**570**		**586**	585	
Normalized	97.27%		100%	99.83%	
Standard Deviation	1.3%		2.8%	0.6%	
Flexible IO Tester - Rand Write - IO_uring - No - Yes - 64KB	**32.8**		34.3	**35.0**	
Normalized	93.71%		98%	100%	
Standard Deviation	1.8%		0.6%	1.1%	
Flexible IO Tester - Rand Write - IO_uring - No - Yes - 64KB	**521**		545	**556**	
Normalized	93.71%		98.02%	100%	
Standard Deviation			0.6%	1.2%	
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB	**2.464**	2.495	**2.592**	2.585	2.580
Normalized	95.06%	96.26%	100%	99.73%	99.54%
Standard Deviation	2.9%	2.4%	0.9%	2.5%	2.4%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB	**612**	620	**644**	643	641
Normalized	95.03%	96.27%	100%	99.84%	99.53%
Standard Deviation	2.9%	2.5%	0.9%	2.5%	2.5%
Flexible IO Tester - Rand Write - POSIX AIO - No - Yes - 4KB (MB/s)	**2.505**	2.511	2.562	**2.590**	2.559
Normalized	96.72%	96.95%	98.92%	100%	98.8%
Standard Deviation	1.6%	0.9%	2.5%	2.4%	0.3%
Flexible IO Tester - Rand Write - POSIX AIO - No - Yes - 4KB (IOPS)	**623**	624	637	**644**	636
Normalized	96.74%	96.89%	98.91%	100%	98.76%
Standard Deviation	1.6%	0.9%	2.5%	2.4%	

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Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 16KB	9.730	**9.604**	9.920	9.92	**9.952**
Normalized	97.77%	96.5%	99.68%	99.68%	100%
Standard Deviation	0.5%	1.1%	1.1%	1.7%	1.4%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 16KB (IOPS)	605	**597**	**627**	625	**627**
Normalized	96.49%	95.22%	100%	99.68%	100%
Standard Deviation	0.5%	1.1%	2.5%	2.3%	2.5%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 32KB	18.2	**17.9**	18.8	18.6	**18.9**
Normalized	96.3%	94.71%	99.47%	98.41%	100%
Standard Deviation	1.1%	1.4%	0.8%	0.5%	1.1%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 32KB (IOPS)	578	**570**	596	592	**600**
Normalized	96.33%	95%	99.33%	98.67%	100%
Standard Deviation	1.1%	1.5%	1%	0.7%	1.3%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 64KB	**32.9**	33.0	34.7	34.3	**35.2**
Normalized	93.47%	93.75%	98.58%	97.44%	100%
Standard Deviation	0.8%	2.5%	1.2%	0.8%	1.1%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 64KB (IOPS)	**523**	525	551	545	**559**
Normalized	93.56%	93.92%	98.57%	97.5%	100%
Standard Deviation	0.7%	2.5%		0.8%	1.1%
Flexible IO Tester - Rand Write - POSIX AIO - No - Yes - 16KB (MB/s)	**9.458**	9.622	9.743	**9.845**	9.807
Normalized	96.07%	97.73%	98.96%	100%	99.61%
Standard Deviation	0.8%	0.5%	0.6%	1%	1.3%
Flexible IO Tester - Rand Write - POSIX AIO - No - Yes - 16KB (IOPS)	**588**	598	610	**617**	614
Normalized	95.3%	96.92%	98.87%	100%	99.51%
Standard Deviation	0.8%	0.5%	1.9%	1.4%	2.1%
Flexible IO Tester - Rand Write - POSIX AIO - No - Yes - 32KB (MB/s)	**18.0**	**18.0**	18.6	**18.7**	**18.7**
Normalized	96.26%	96.26%	99.47%	100%	100%
Standard Deviation	1.3%	0.9%	0.9%	0.5%	1.1%
Flexible IO Tester - Rand Write - POSIX AIO - No - Yes - 32KB (IOPS)	**572**	**572**	592	594	**595**
Normalized	96.13%	96.13%	99.5%	99.83%	100%
Standard Deviation	1.3%	0.9%	0.8%	0.5%	0.9%
Flexible IO Tester - Rand Write - POSIX AIO - No - Yes - 64KB (MB/s)	**32.9**	33.4	**34.4**	33.7	34.3
Normalized	95.64%	97.09%	100%	97.97%	99.71%
Standard Deviation	3%	1.5%	0.9%	2%	1.7%

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Flexible IO Tester - Rand Write - POSIX AIO - No - Yes - 64KB (IOPS)	523	531	547	536	545
Normalized	95.61%	97.07%	100%	97.99%	99.63%
Standard Deviation	3%	1.6%	0.8%	2%	1.7%
Flexible IO Tester - Seq Read - IO_uring - No - Yes - 4KB (MB/s)	517		439	586	
Normalized	88.23%		74.91%	100%	
Standard Deviation	11.1%		3.6%	10.3%	
Flexible IO Tester - Seq Read - IO_uring - No - Yes - 4KB (IOPS)	132417		112200	149917	
Normalized	88.33%		74.84%	100%	
Standard Deviation	11.1%		3.7%	10.2%	
Flexible IO Tester - Seq Read - IO_uring - No - Yes - 16KB	190		192	188	
Normalized	98.96%		100%	97.92%	
Standard Deviation	0.9%		1.7%	1.7%	
Flexible IO Tester - Seq Read - IO_uring - No - Yes - 16KB	12167		12267	12033	
Normalized	99.18%		100%	98.09%	
Standard Deviation	0.9%		1.7%	1.7%	
Flexible IO Tester - Seq Read - IO_uring - No - Yes - 32KB	188		188	190	
Normalized	98.95%		98.95%	100%	
Standard Deviation	0.6%		2.9%		
Flexible IO Tester - Seq Read - IO_uring - No - Yes - 32KB	6030		6019	6059	
Normalized	99.52%		99.34%	100%	
Standard Deviation	0.5%		2.9%	0.9%	
Flexible IO Tester - Seq Read - IO_uring - No - Yes - 64KB	188		182	187	
Normalized	100%		96.81%	99.47%	
Standard Deviation	0.5%		0.3%		
Flexible IO Tester - Seq Read - IO_uring - No - Yes - 64KB	3006		2914	2993	
Normalized	100%		96.94%	99.57%	
Standard Deviation	0.6%		0.2%	0.3%	
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB	520	656	526	572	668
Normalized	77.84%	98.2%	78.74%	85.63%	100%
Standard Deviation	0.8%	0.4%	0.8%	1.7%	0.2%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB	133333	168333	134333	146333	171333
Normalized	77.82%	98.25%	78.4%	85.41%	100%
Standard Deviation	0.9%	0.3%	0.9%	1.7%	0.3%
Flexible IO Tester - Seq Read - POSIX AIO - No - Yes - 4KB (MB/s)	158	165	155	159	164
Normalized	95.76%	100%	93.94%	96.36%	99.39%
Standard Deviation			0.7%		

fio-performance

Flexible IO Tester - Seq Read - POSIX AIO - No - Yes - 4KB (IOPS)	40433	42200	39700	40833	41867
Normalized	95.81%	100%	94.08%	96.76%	99.21%
Standard Deviation	0.3%	0.4%	0.4%	0.1%	0.1%
Flexible IO Tester - Seq Write - IO_uring - No - Yes - 4KB (MB/s)	189		190	187	
Normalized	99.47%		100%	98.42%	
Standard Deviation			0.6%		
Flexible IO Tester - Seq Write - IO_uring - No - Yes - 4KB (IOPS)	48333		48600	47900	
Normalized	99.45%		100%	98.56%	
Standard Deviation	0.1%		0.5%		
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 16KB	189	184	189	187	192
Normalized	98.44%	95.83%	98.44%	97.4%	100%
Standard Deviation	0.3%	2%	0.3%	3.6%	2.7%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 16KB (IOPS)	12067	11767	12067	11936	12280
Normalized	98.27%	95.82%	98.27%	97.2%	100%
Standard Deviation	0.5%	2.1%	0.5%	3.5%	2.7%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 32KB	186	187	189	188	192
Normalized	96.88%	97.4%	98.44%	97.92%	100%
Standard Deviation	1.4%	2.4%		0.6%	
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 32KB (IOPS)	5955	5979	6041	6024	6146
Normalized	96.89%	97.28%	98.29%	98.01%	100%
Standard Deviation	1.4%	2.4%	0.3%	0.7%	0.1%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 64KB	185	187	188	189	191
Normalized	96.86%	97.91%	98.43%	98.95%	100%
Standard Deviation		0.8%	0.5%		
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 64KB (IOPS)	2955	2991	3008	3022	3055
Normalized	96.73%	97.91%	98.46%	98.92%	100%
Standard Deviation	0.3%	0.8%	0.6%	0.1%	0.9%
Flexible IO Tester - Seq Read - POSIX AIO - No - Yes - 16KB (MB/s)	552	598	543	559	597
Normalized	92.31%	100%	90.8%	93.48%	99.83%
Standard Deviation	1.2%	0.5%	0.5%	1.4%	0.7%
Flexible IO Tester - Seq Read - POSIX AIO - No - Yes - 16KB (IOPS)	35300	38300	34800	35767	38167
Normalized	92.17%	100%	90.86%	93.39%	99.65%
Standard Deviation	1.2%	0.5%	0.5%	1.4%	0.8%

fio-performance

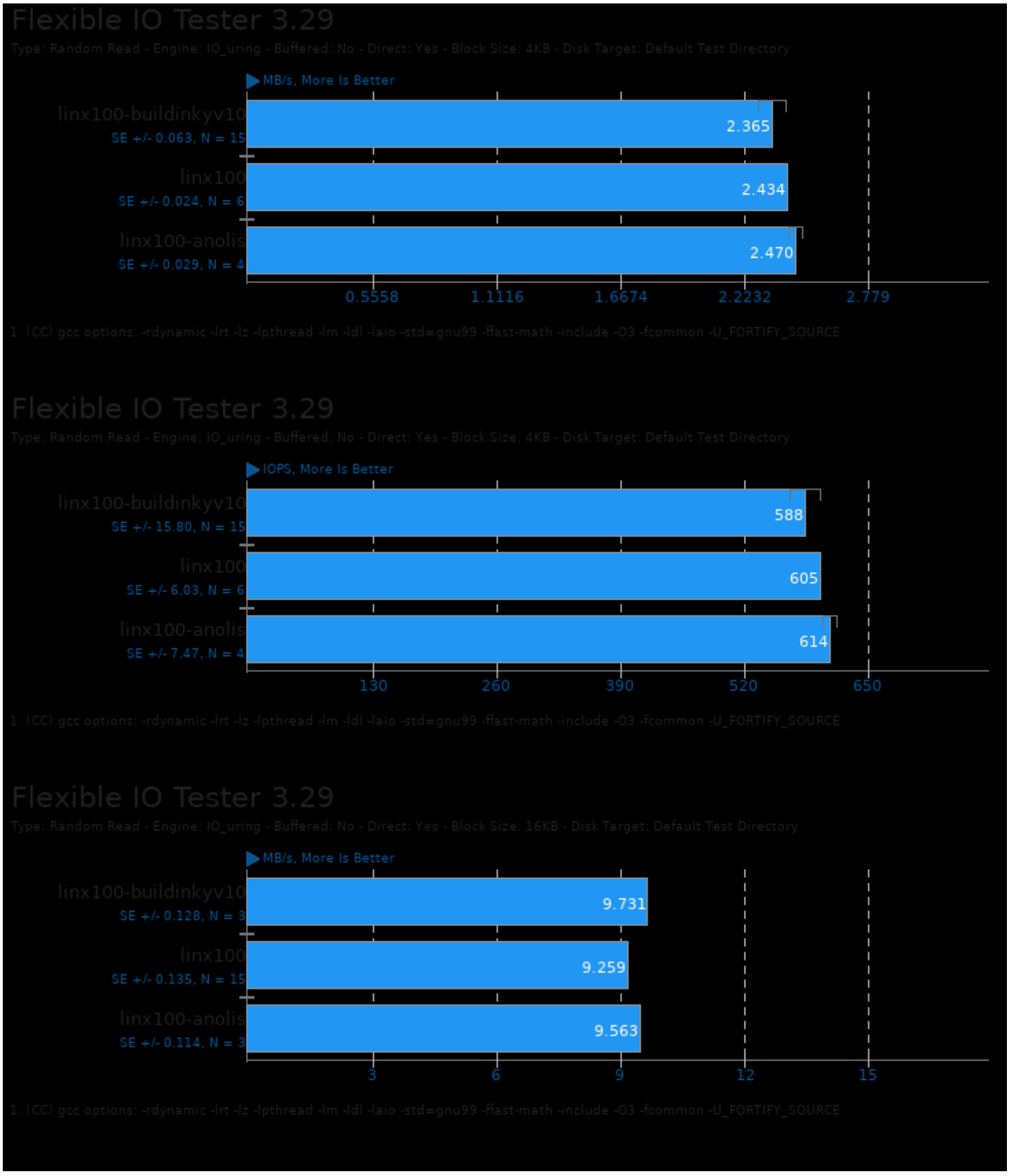
Flexible IO Tester - Seq Read - POSIX AIO - No - Yes - 32KB (MB/s)	950	1090	963	966	1078
Normalized	87.16%	100%	88.35%	88.62%	98.9%
Standard Deviation	1.7%	0.6%	2.4%	1.1%	
Flexible IO Tester - Seq Read - POSIX AIO - No - Yes - 32KB (IOPS)	30400	34900	30825	30900	34500
Normalized	87.11%	100%	88.32%	88.54%	98.85%
Standard Deviation	1.7%	0.6%	2.5%	1%	
Flexible IO Tester - Seq Read - POSIX AIO - No - Yes - 64KB (MB/s)	1572	1834	1560	1562	1823
Normalized	85.71%	100%	85.06%	85.17%	99.4%
Standard Deviation	0.3%	1.3%	1%	0.9%	0.8%
Flexible IO Tester - Seq Read - POSIX AIO - No - Yes - 64KB (IOPS)	25167	29333	24967	25000	29167
Normalized	85.8%	100%	85.12%	85.23%	99.43%
Standard Deviation	0.2%	1.2%	1%	0.8%	0.9%
Flexible IO Tester - Seq Write - IO_uring - No - Yes - 16KB	189		187	187	
Normalized	100%		98.94%	98.94%	
Standard Deviation				1.1%	
Flexible IO Tester - Seq Write - IO_uring - No - Yes - 16KB	12100		11967	11967	
Normalized	100%		98.9%	98.9%	
Standard Deviation			0.5%	1.3%	
Flexible IO Tester - Seq Write - IO_uring - No - Yes - 32KB	189		187	187	
Normalized	100%		98.94%	98.94%	
Standard Deviation	1.4%		0.3%	0.6%	
Flexible IO Tester - Seq Write - IO_uring - No - Yes - 32KB	6043		5978	5968	
Normalized	100%		98.92%	98.76%	
Standard Deviation	1.5%		0.3%	0.6%	
Flexible IO Tester - Seq Write - IO_uring - No - Yes - 64KB	189		189	189	
Standard Deviation			1.3%		
Flexible IO Tester - Seq Write - IO_uring - No - Yes - 64KB	3030		3013	3027	
Normalized	100%		99.44%	99.9%	
Standard Deviation	0.4%		1.2%	0.8%	
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB	190	188	187	190	190
Normalized	100%	98.95%	98.42%	100%	100%
Standard Deviation			0.6%	0.6%	1.6%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB	48667	48200	48033	48533	48700
Normalized	99.93%	98.97%	98.63%	99.66%	100%
Standard Deviation	0.3%		0.6%	0.5%	1.6%

fio-performance

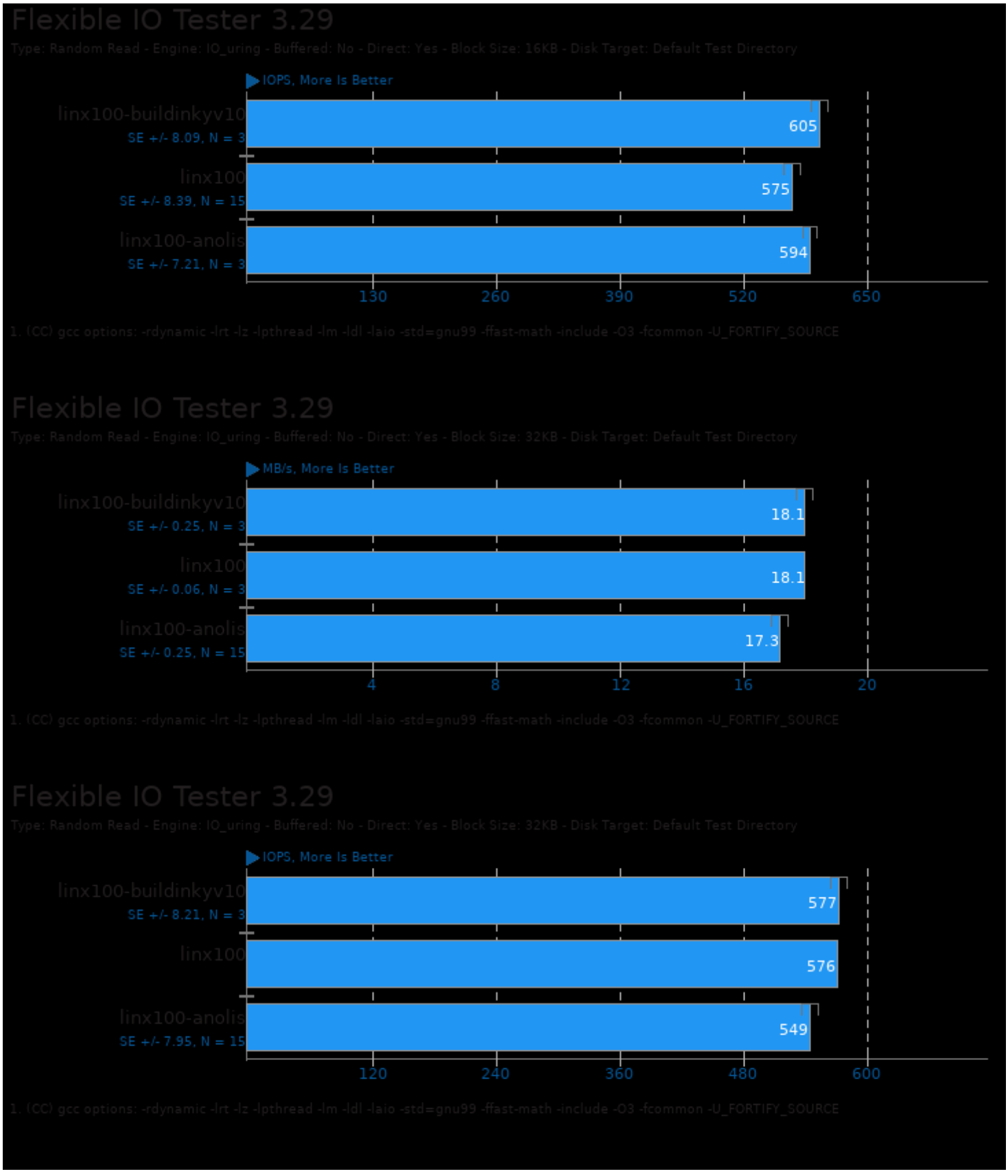
Flexible IO Tester - Seq Write - POSIX AIO - No - Yes - 4KB (MB/s)	108	113	108	112	114
Normalized	94.74%	99.12%	94.74%	98.25%	100%
Standard Deviation	0.9%	0.5%			
Flexible IO Tester - Seq Write - POSIX AIO - No - Yes - 4KB (IOPS)	27533	29033	27633	28633	29067
Normalized	94.72%	99.88%	95.07%	98.51%	100%
Standard Deviation	0.9%	0.2%	0.4%	0.2%	0.2%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 16KB	189	189	190	190	192
Normalized	98.44%	98.44%	98.96%	98.96%	100%
Standard Deviation	0.6%	0.6%	0.6%	0.5%	
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 16KB (IOPS)	12033	12100	12167	12133	12300
Normalized	97.83%	98.37%	98.92%	98.64%	100%
Standard Deviation	0.5%		0.5%	0.5%	
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 32KB	187	190	190	190	192
Normalized	97.4%	98.96%	98.96%	98.96%	100%
Standard Deviation	0.9%	0.5%		0.5%	0.3%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 32KB (IOPS)	5973	6074	6087	6081	6137
Normalized	97.33%	98.97%	99.19%	99.09%	100%
Standard Deviation	1%	0.4%	0.1%	0.7%	0.3%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 64KB	188	189	190	190	193
Normalized	97.41%	97.93%	98.45%	98.45%	100%
Standard Deviation	0.6%				1.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 64KB (IOPS)	3006	3012	3034	3032	3083
Normalized	97.5%	97.7%	98.41%	98.35%	100%
Standard Deviation	0.7%	0.3%	0.3%	0.2%	1.3%
Flexible IO Tester - Seq Write - POSIX AIO - No - Yes - 16KB (MB/s)	189	187	189	188	187
Normalized	100%	98.94%	100%	99.47%	98.94%
Standard Deviation				0.5%	2.5%
Flexible IO Tester - Seq Write - POSIX AIO - No - Yes - 16KB (IOPS)	12100	11967	12067	12033	12000
Normalized	100%	98.9%	99.73%	99.45%	99.17%
Standard Deviation		0.5%	0.5%	0.5%	2.2%
Flexible IO Tester - Seq Write - POSIX AIO - No - Yes - 32KB (MB/s)	189	187	186	188	192
Normalized	98.44%	97.4%	96.88%	97.92%	100%
Standard Deviation		1.5%	1.9%		

fio-performance

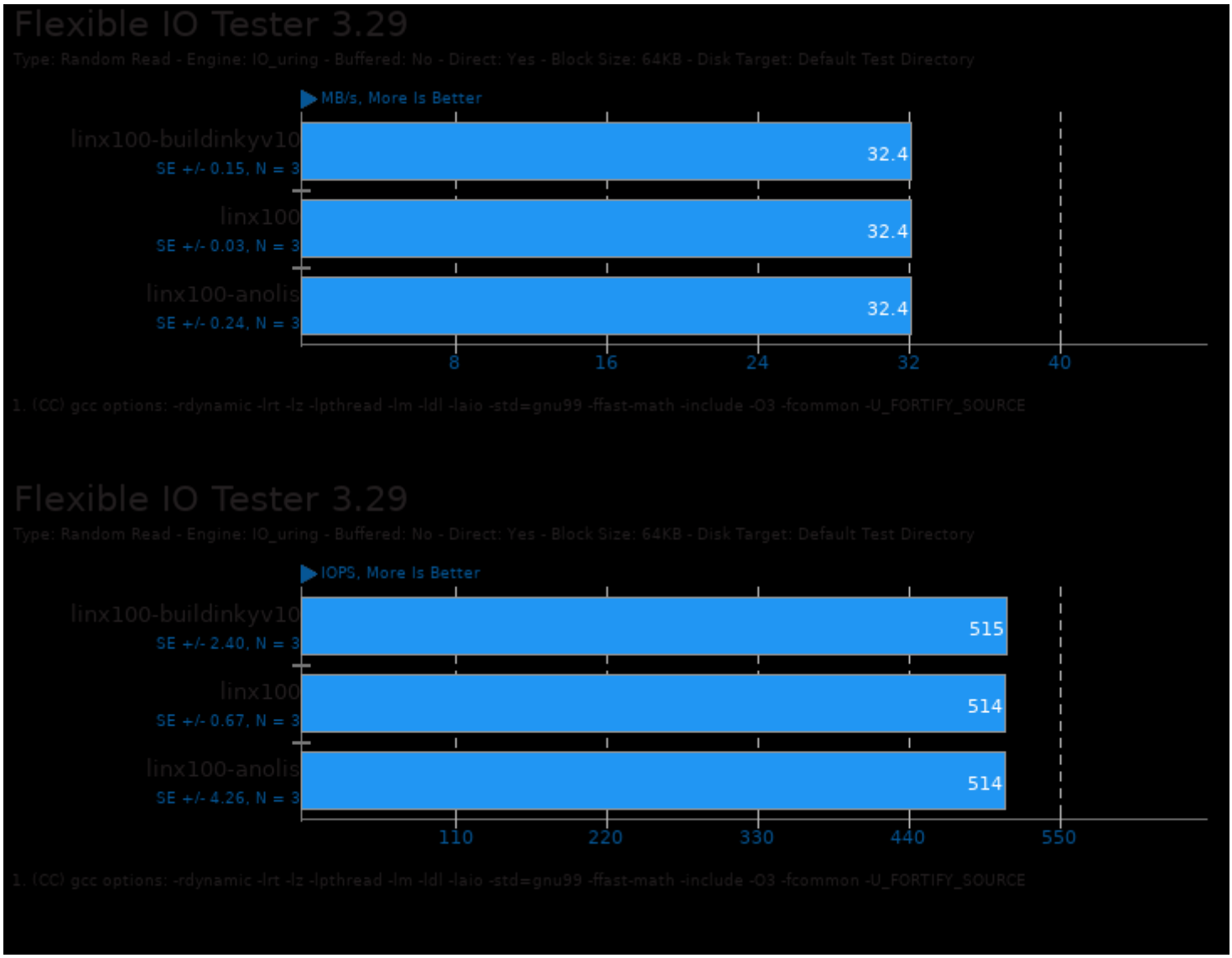
Flexible IO Tester - Seq Write - POSIX AIO - No - Yes - 32KB (IOPS)	6034	5986	**5952**	6006	**6144**
Normalized	98.21%	97.43%	96.88%	97.75%	100%
Standard Deviation	0.5%	1.6%	1.8%	0.3%	0.4%
Flexible IO Tester - Seq Write - POSIX AIO - No - Yes - 64KB (MB/s)	189	189	**187**	**187**	**192**
Normalized	98.44%	98.44%	97.4%	97.4%	100%
Standard Deviation		0.3%	1.7%	0.5%	
Flexible IO Tester - Seq Write - POSIX AIO - No - Yes - 64KB (IOPS)	3022	3020	**2983**	2990	**3065**
Normalized	98.6%	98.53%	97.32%	97.55%	100%
Standard Deviation	0.3%	0.3%	1.7%	0.6%	


Flexible IO Tester 3.29
Type: Random Read - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 0.063, N = 15
2.365
linx100
SE +/- 0.024, N = 6
2.434
linx100-anolis
SE +/- 0.029, N = 4
2.470
0.5558
1.1116
1.6674
2.2232
2.779
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Random Read - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
linx100-buildinkyv10
SE +/- 15.80, N = 15
588
linx100
SE +/- 6.03, N = 6
605
linx100-anolis
SE +/- 7.47, N = 4
614
130
260
390
520
650
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Random Read - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 0.128, N = 3
9.731
linx100
SE +/- 0.135, N = 15
9.259
linx100-anolis
SE +/- 0.114, N = 3
9.563
3
6
9
12
15
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

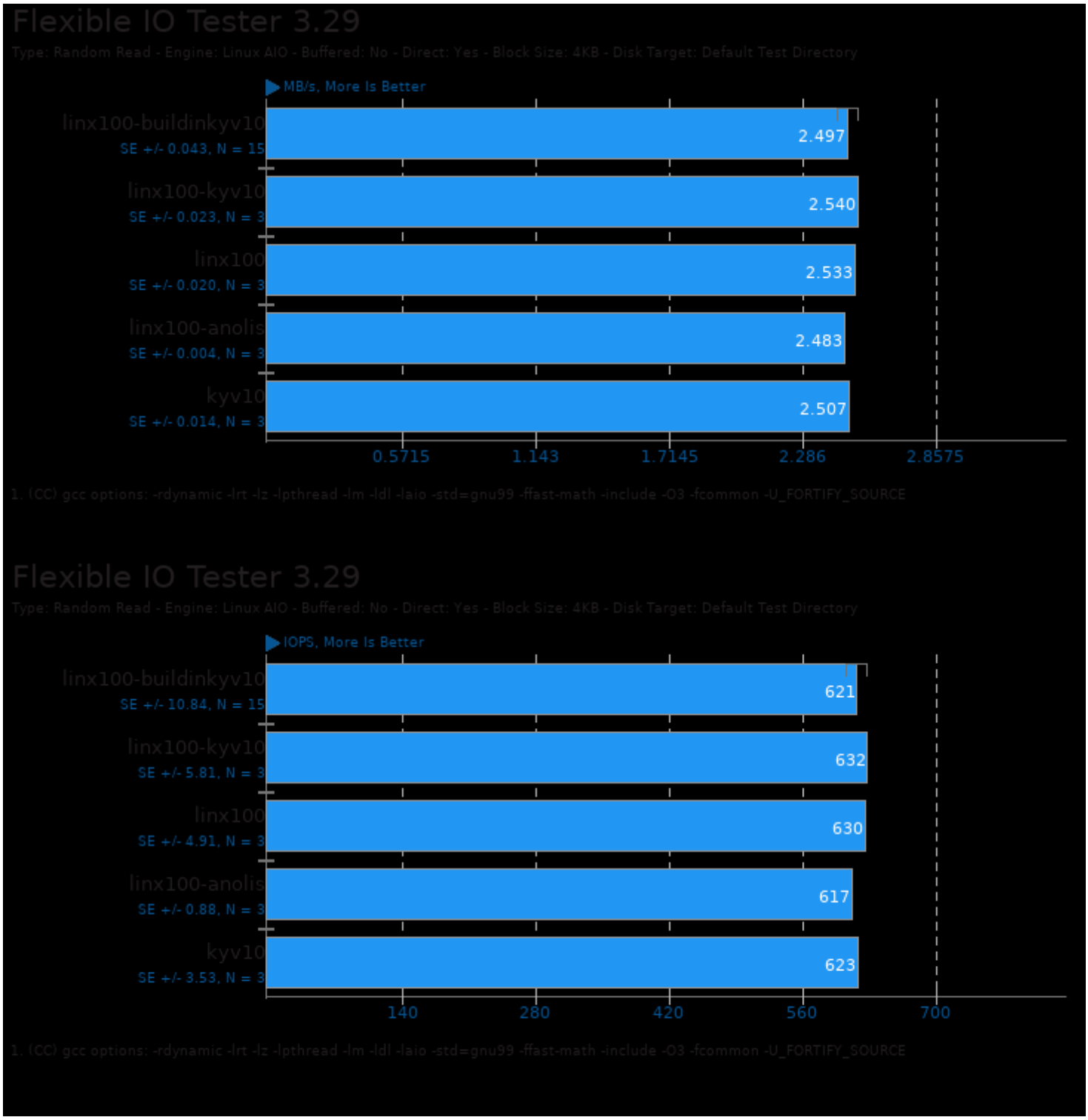
fio-performance



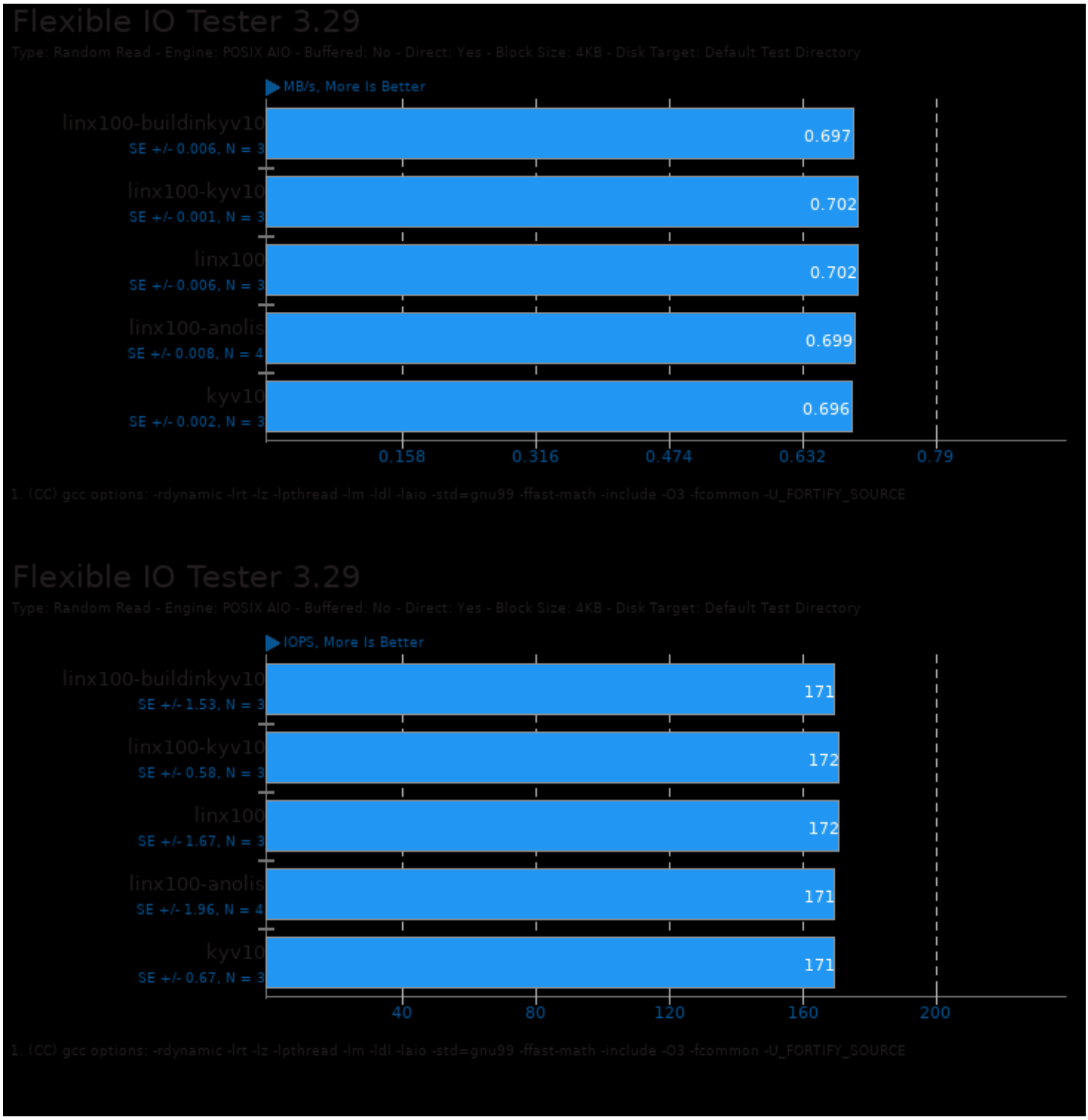
fio-performance



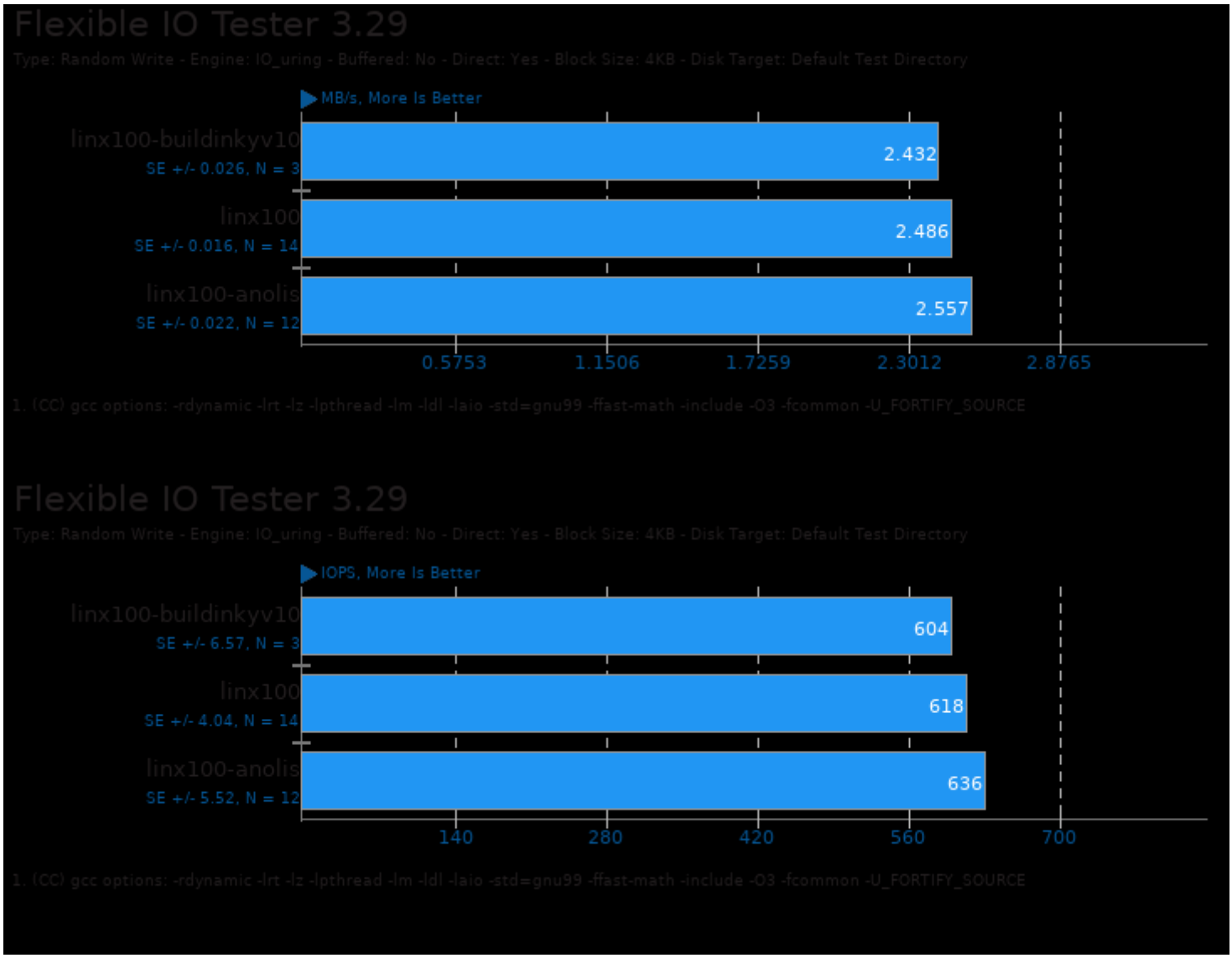
fio-performance

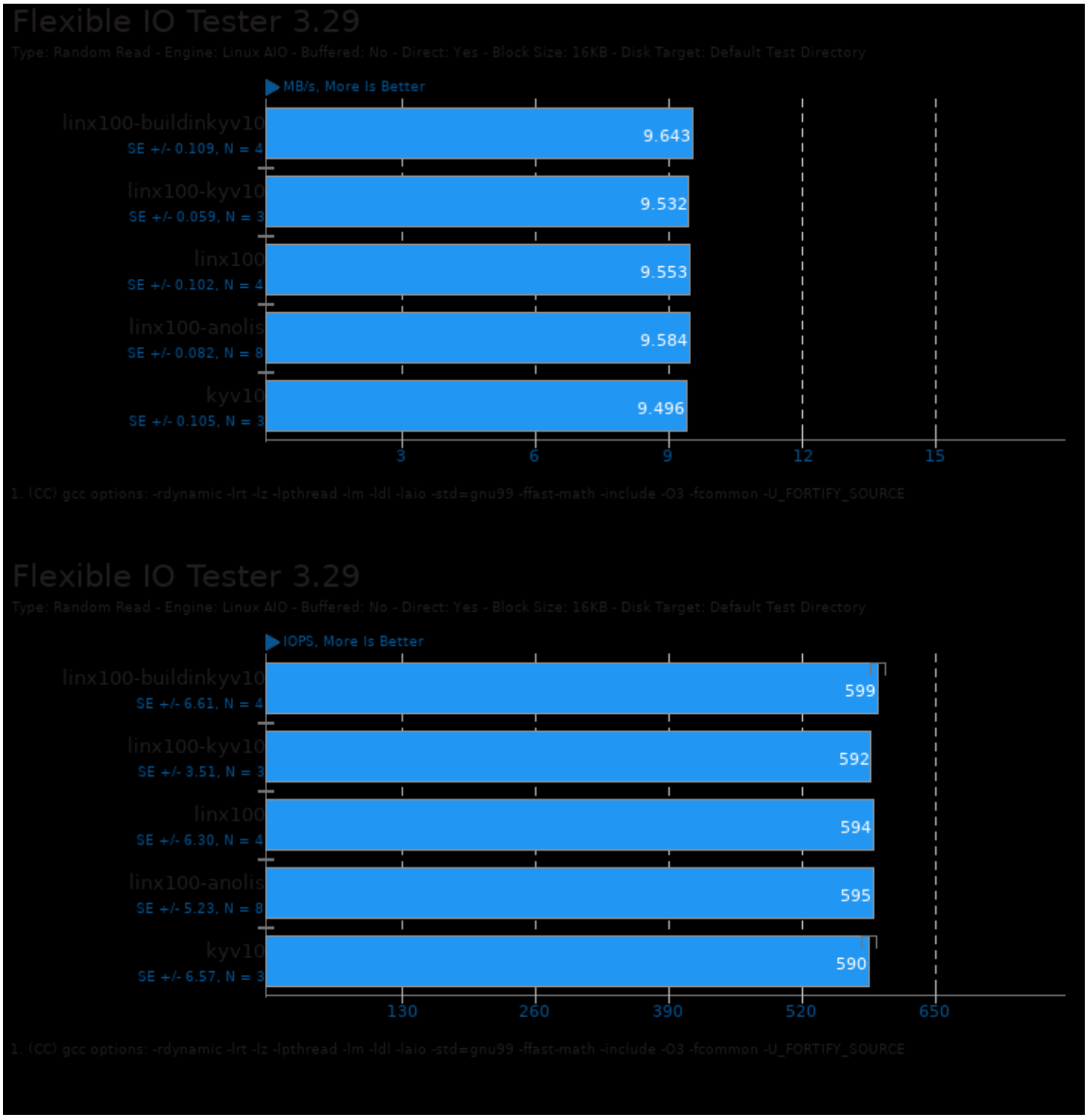


fio-performance

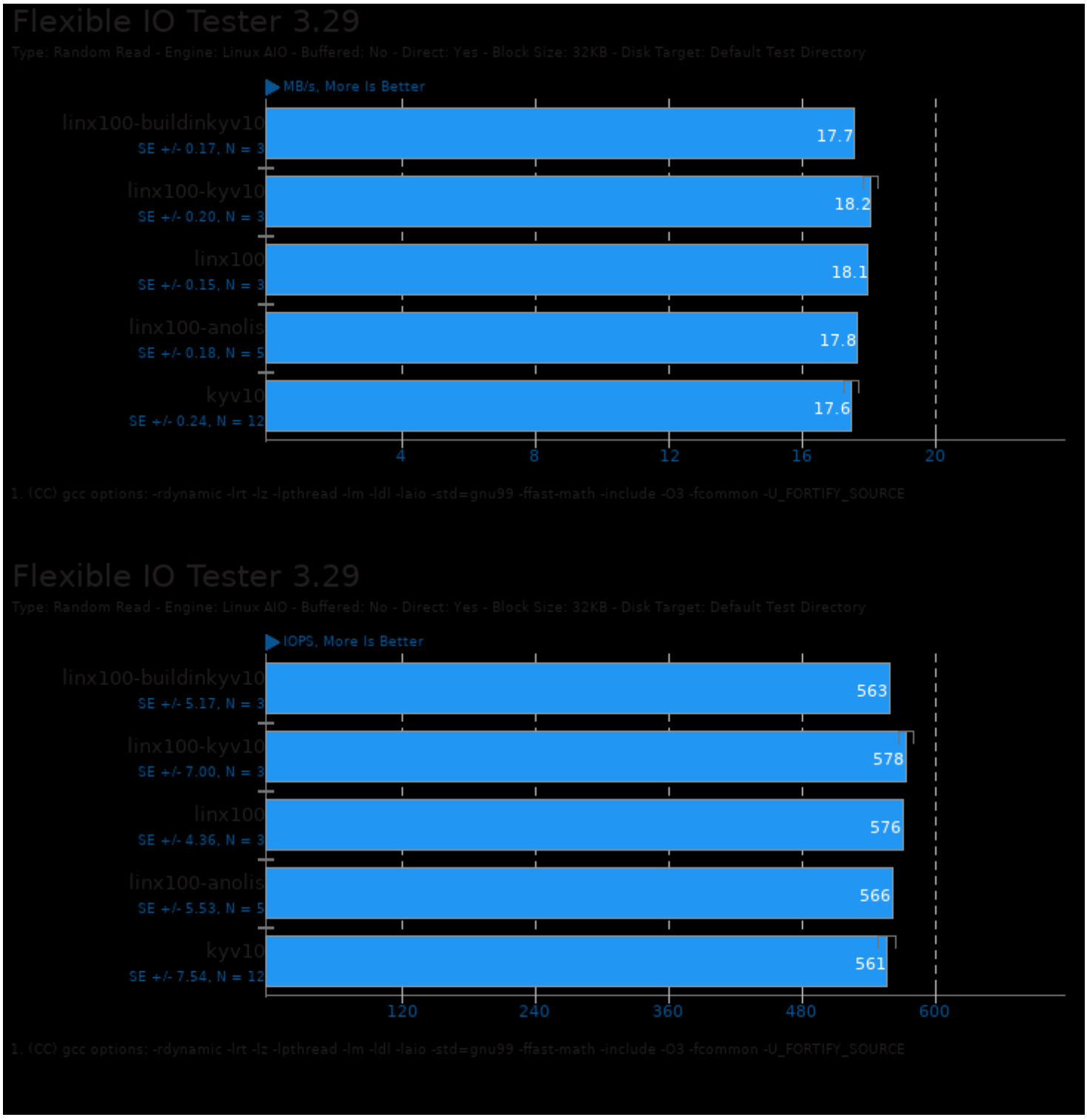


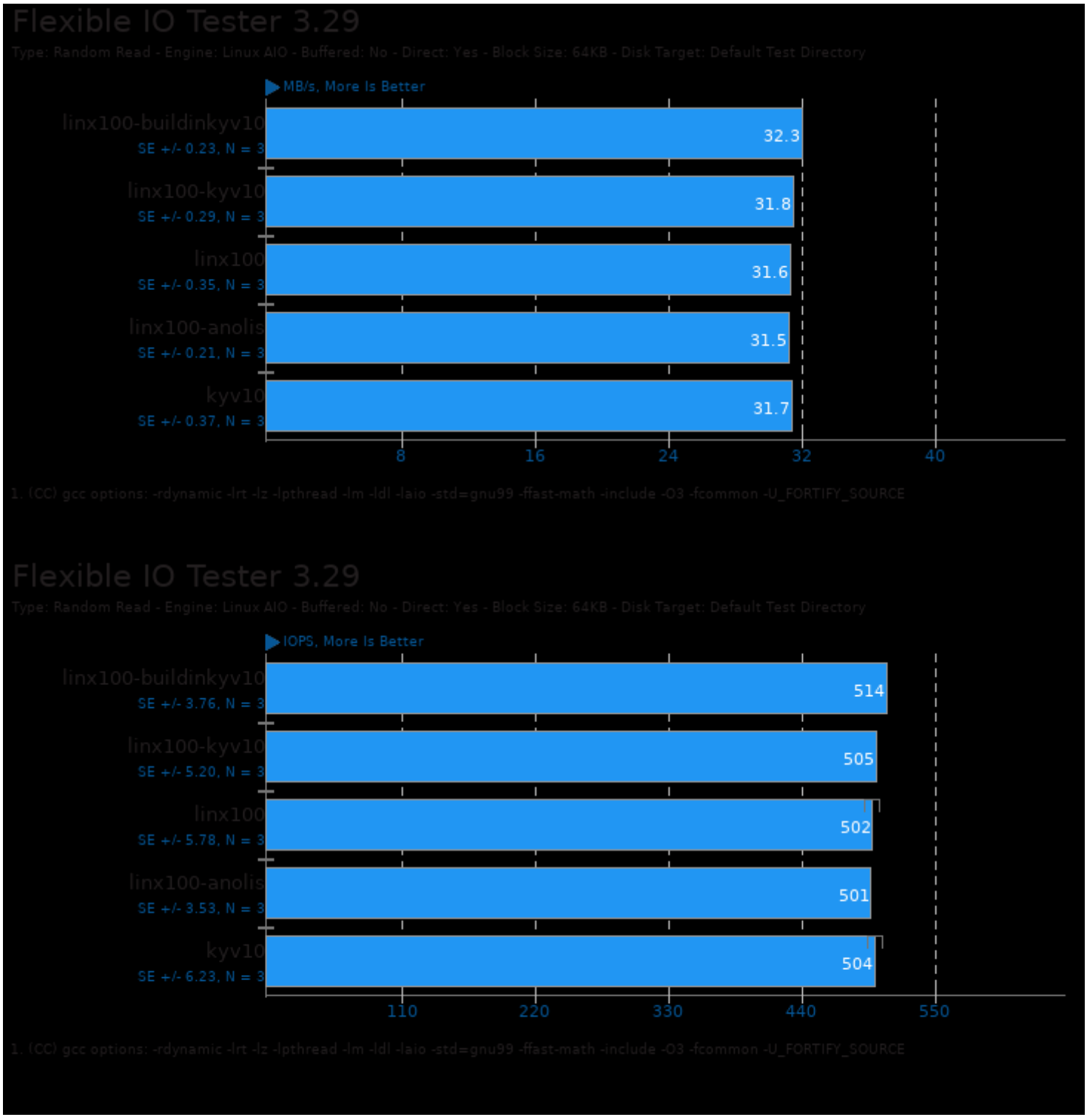
fio-performance



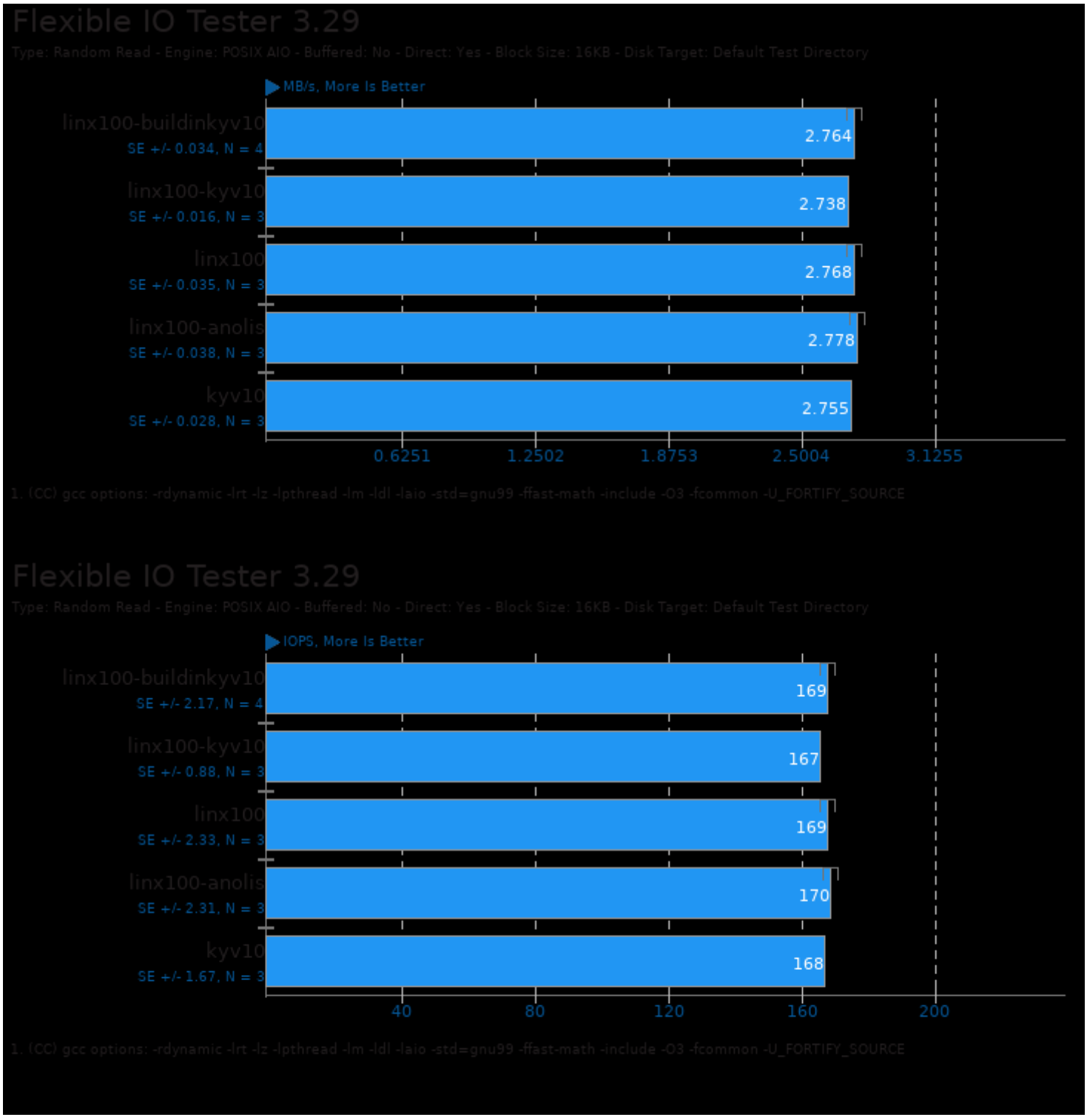

Flexible IO Tester 3.29
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 0.109, N = 4
9.643
linx100-kyv10
SE +/- 0.059, N = 3
9.532
linx100
SE +/- 0.102, N = 4
9.553
linx100-anolis
SE +/- 0.082, N = 8
9.584
kyv10
SE +/- 0.105, N = 3
9.496
3
6
9
12
15
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
linx100-buildinkyv10
SE +/- 6.61, N = 4
599
linx100-kyv10
SE +/- 3.51, N = 3
592
linx100
SE +/- 6.30, N = 4
594
linx100-anolis
SE +/- 5.23, N = 8
595
kyv10
SE +/- 6.57, N = 3
590
130
260
390
520
650
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

fio-performance

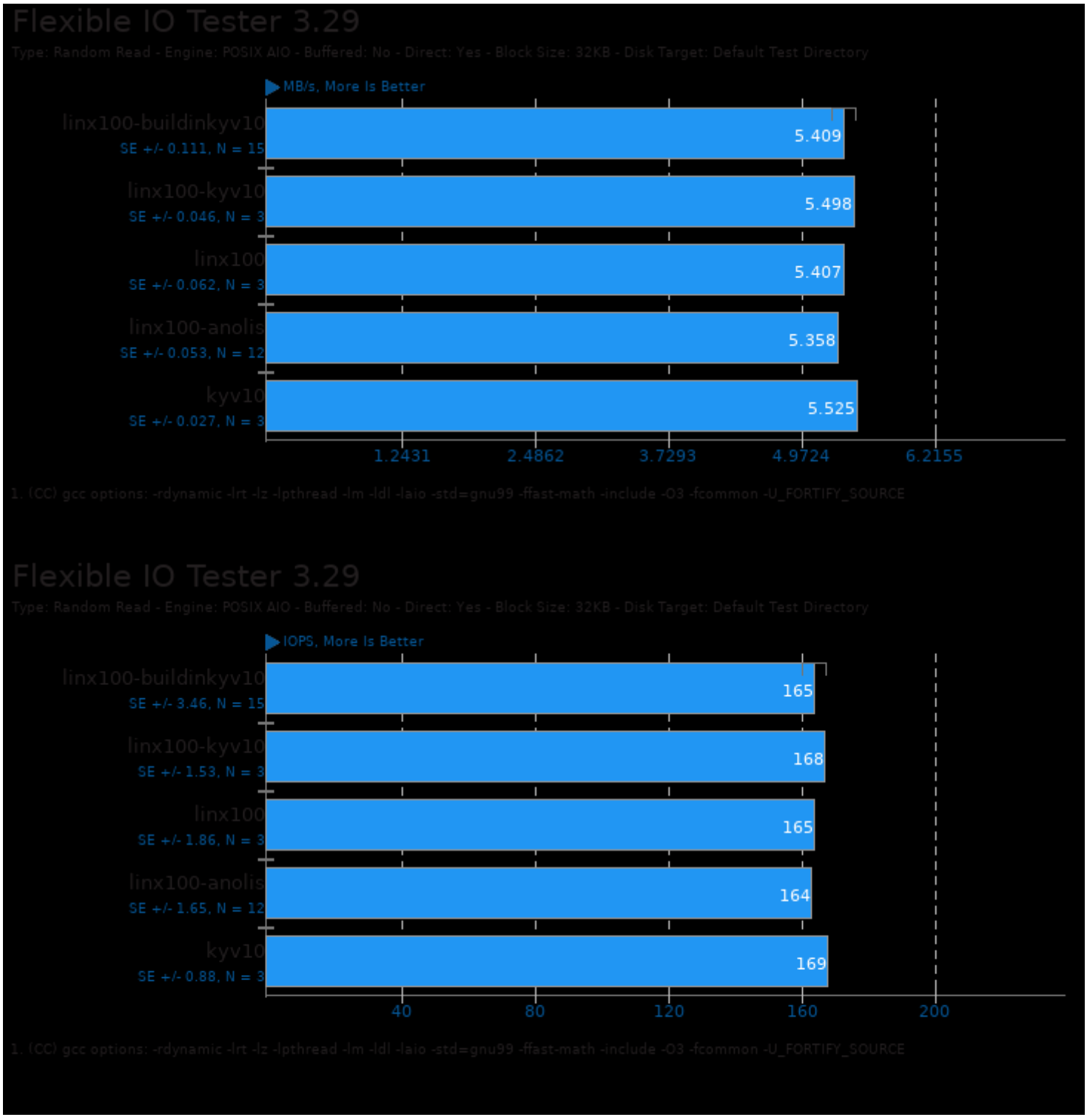



Flexible IO Tester 3.29
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 0.23, N = 3
32.3
linx100-kyv10
SE +/- 0.29, N = 3
31.8
linx100
SE +/- 0.35, N = 3
31.6
linx100-anolis
SE +/- 0.21, N = 3
31.5
kyv10
SE +/- 0.37, N = 3
31.7
8
16
24
32
40
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
linx100-buildinkyv10
SE +/- 3.76, N = 3
514
linx100-kyv10
SE +/- 5.20, N = 3
505
linx100
SE +/- 5.78, N = 3
502
linx100-anolis
SE +/- 3.53, N = 3
501
kyv10
SE +/- 6.23, N = 3
504
110
220
330
440
550
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

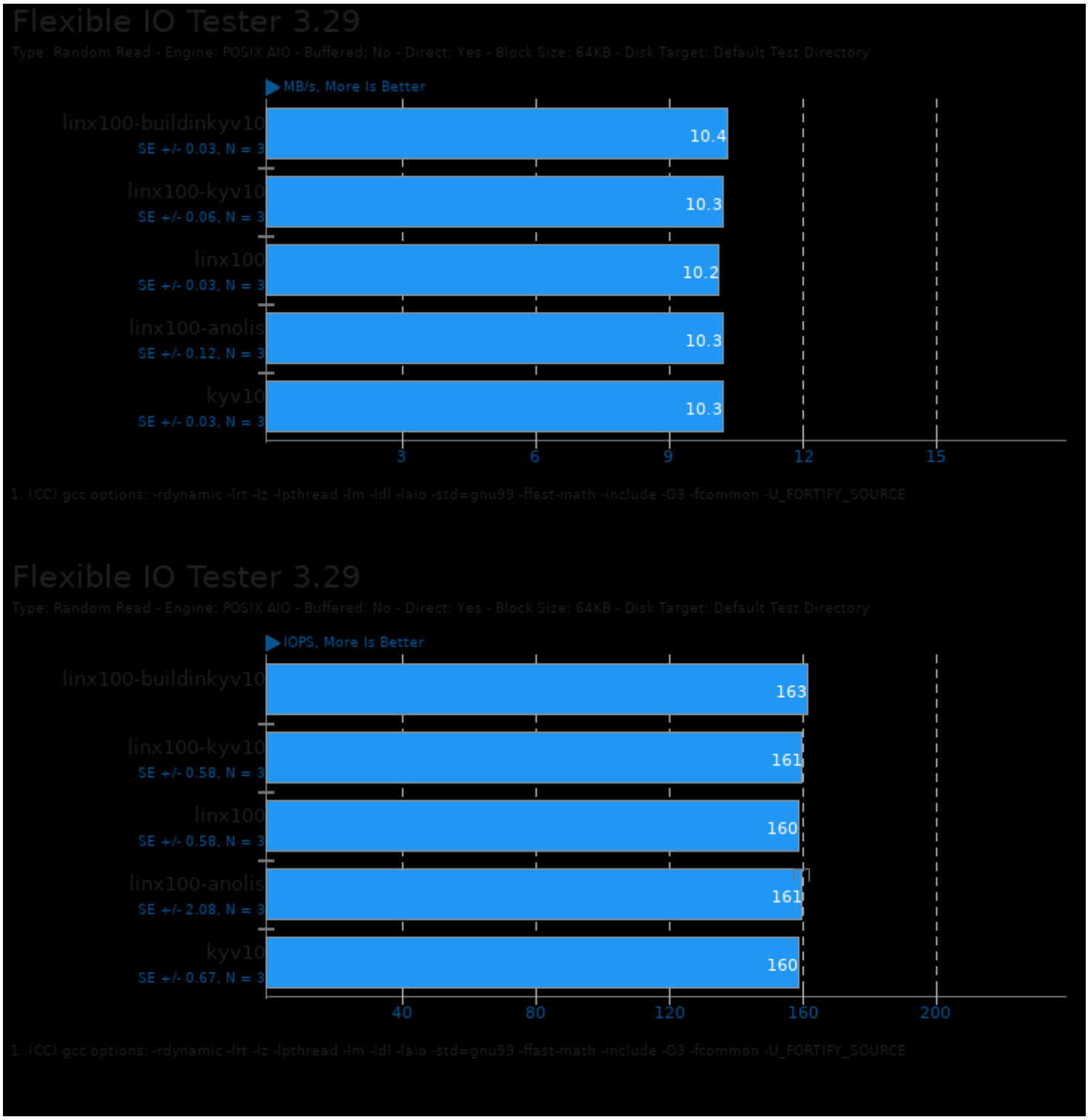
fio-performance

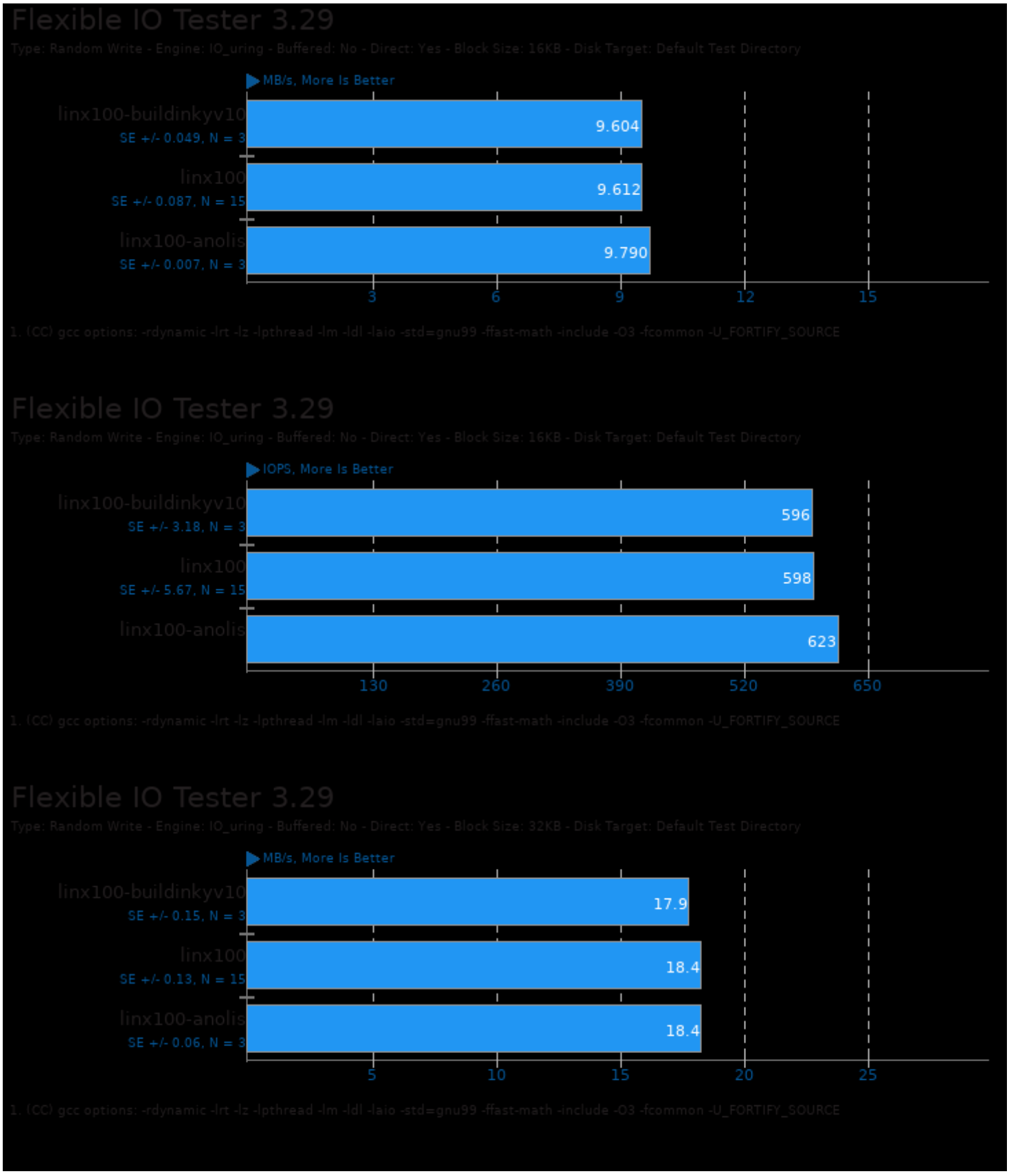


fio-performance

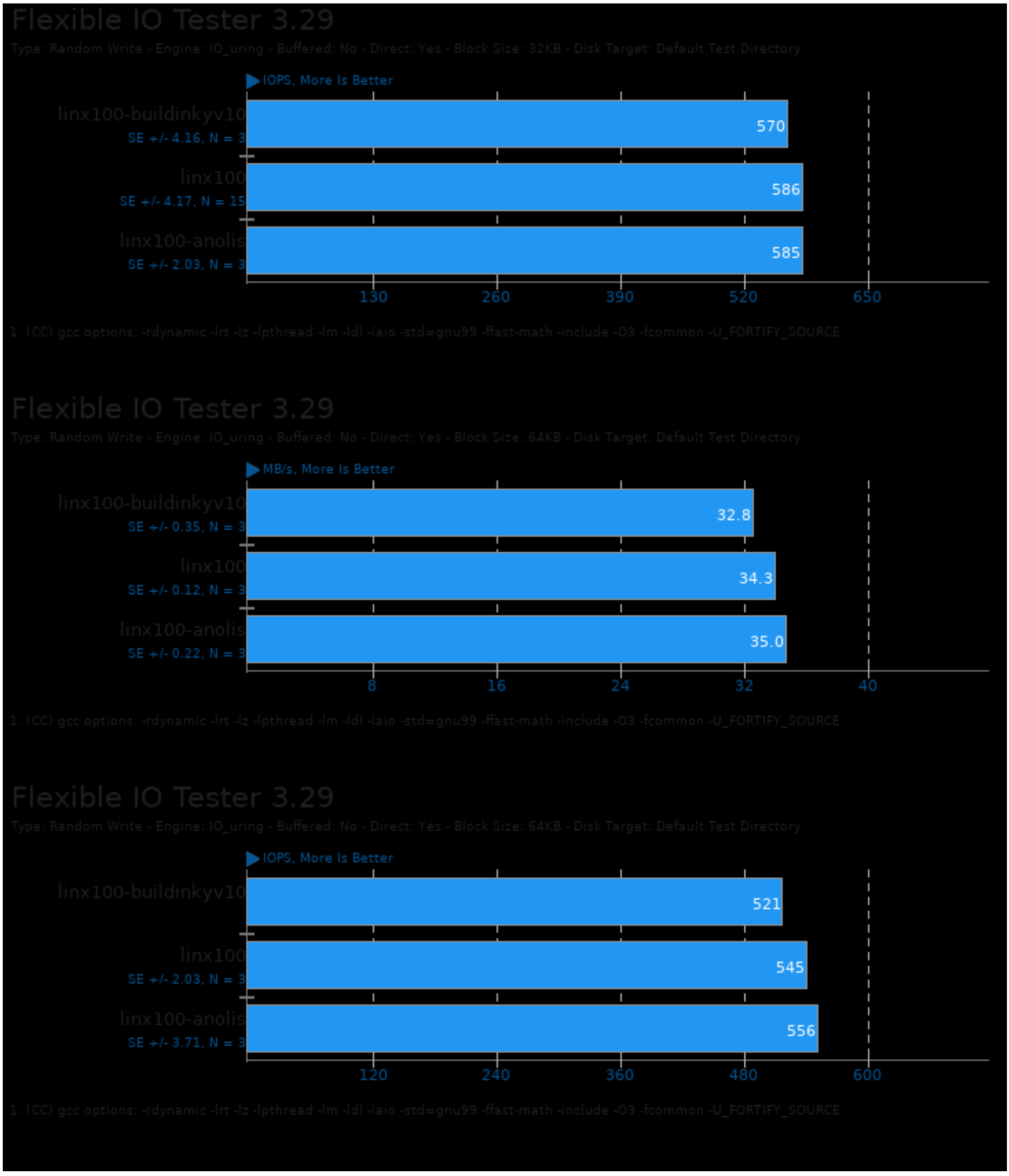


fio-performance

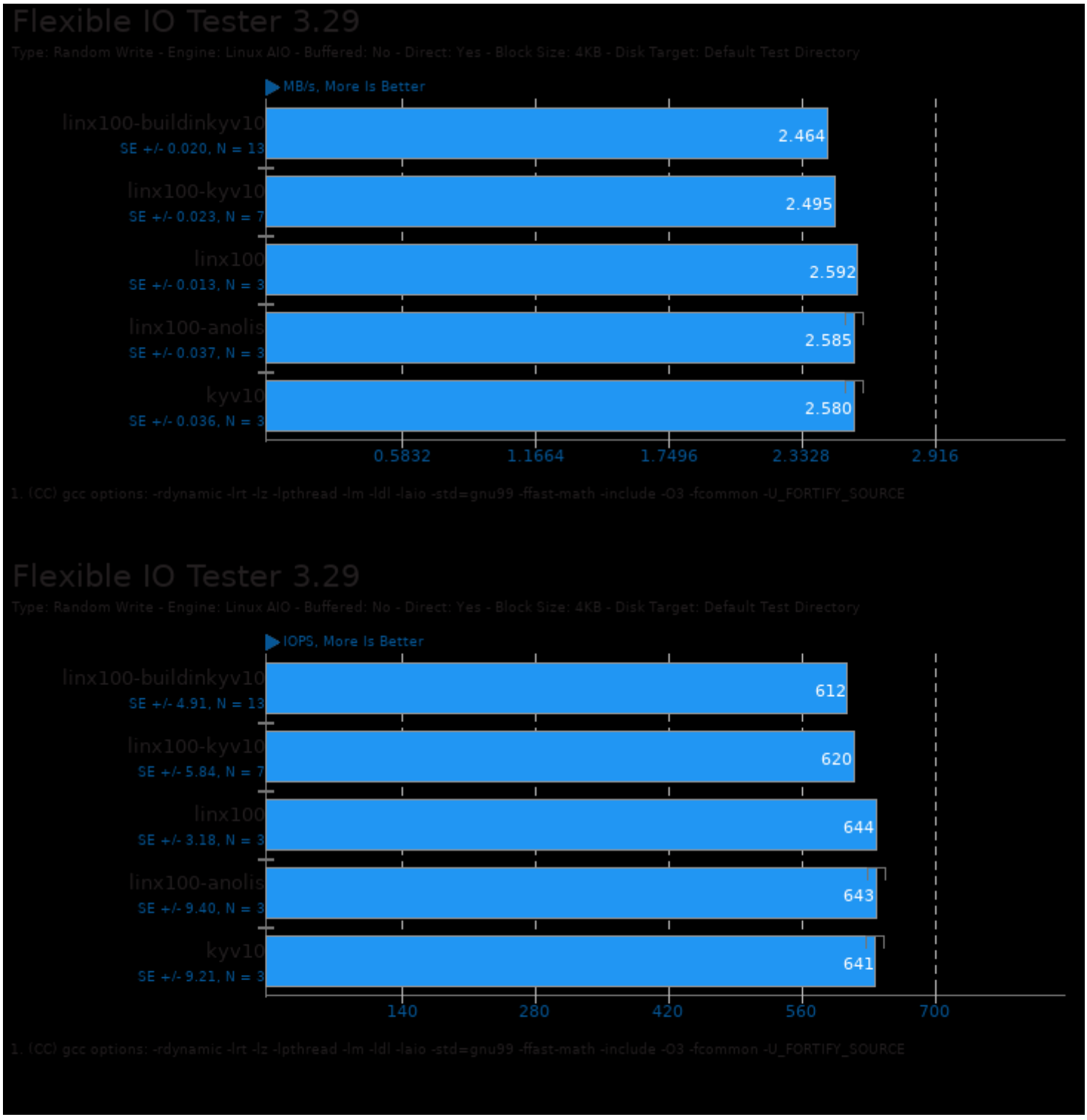



Flexible IO Tester 3.29
Type: Random Write - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 0.049, N = 3
9.604
linx100
SE +/- 0.087, N = 15
9.612
linx100-anolis
SE +/- 0.007, N = 3
9.790
3
6
9
12
15
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Random Write - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
linx100-buildinkyv10
SE +/- 3.18, N = 3
596
linx100
SE +/- 5.67, N = 15
598
linx100-anolis
623
130
260
390
520
650
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Random Write - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 0.15, N = 3
17.9
linx100
SE +/- 0.13, N = 15
18.4
linx100-anolis
SE +/- 0.06, N = 3
18.4
5
10
15
20
25
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

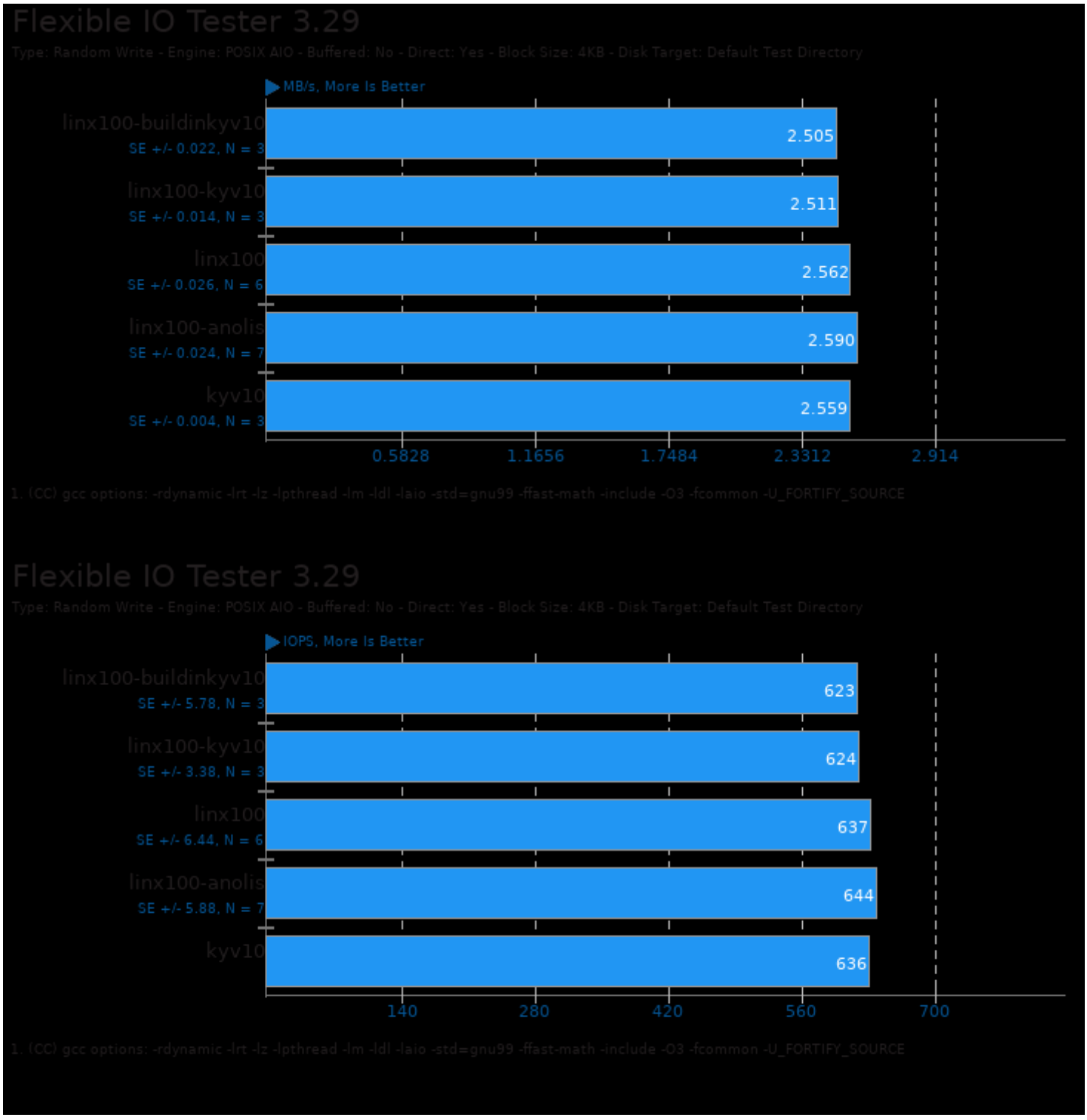
fio-performance

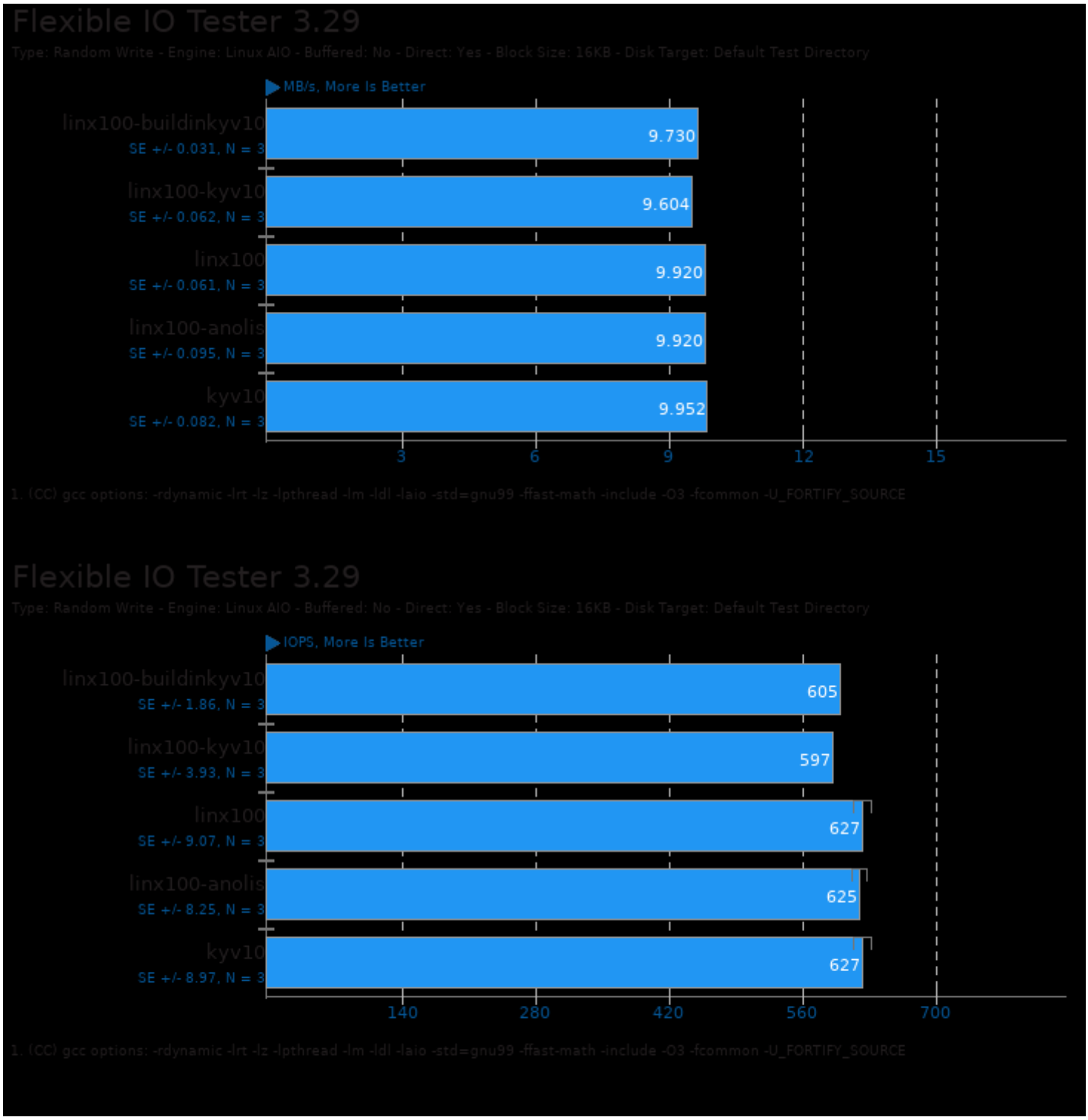


fio-performance

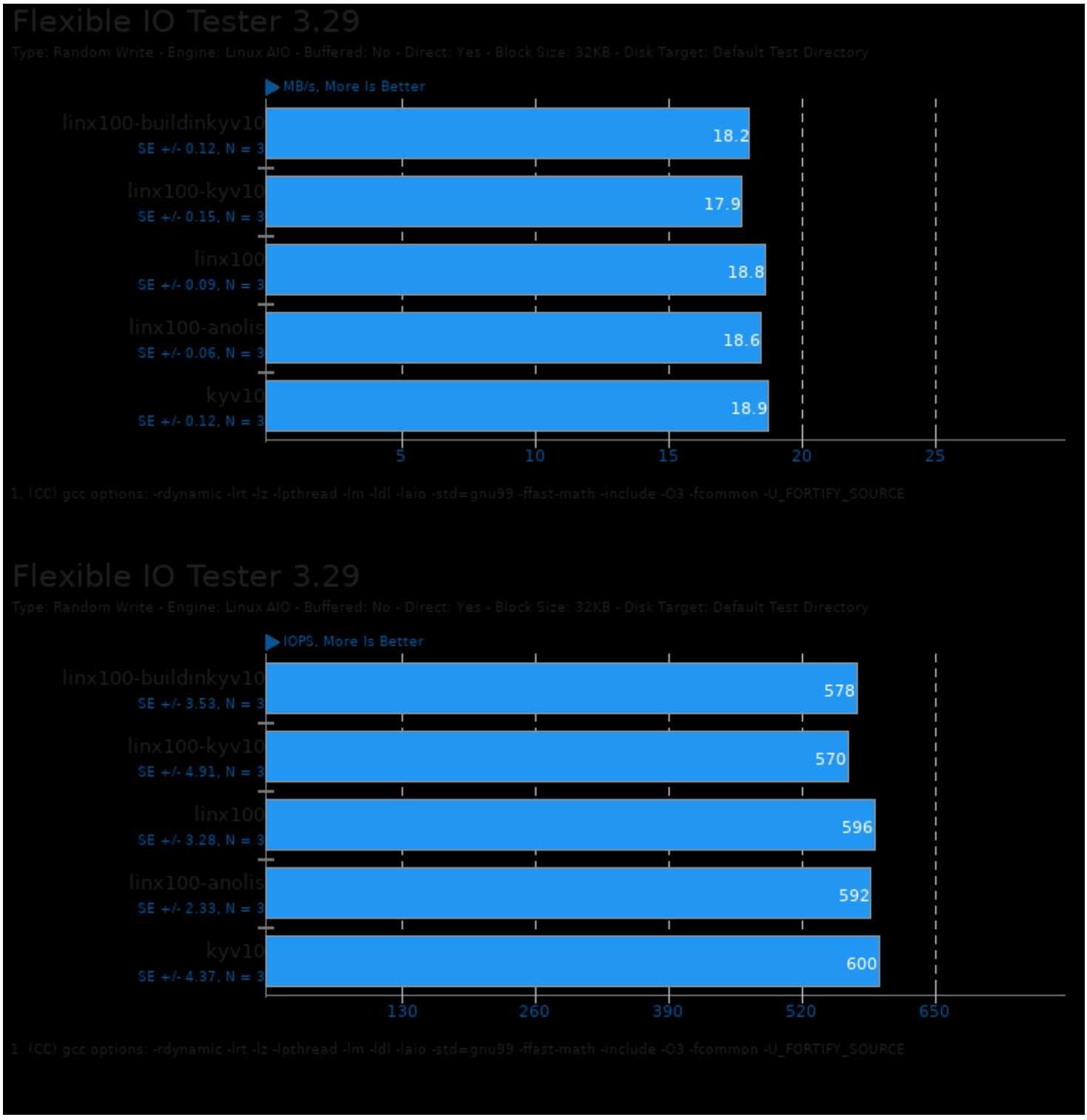


fio-performance

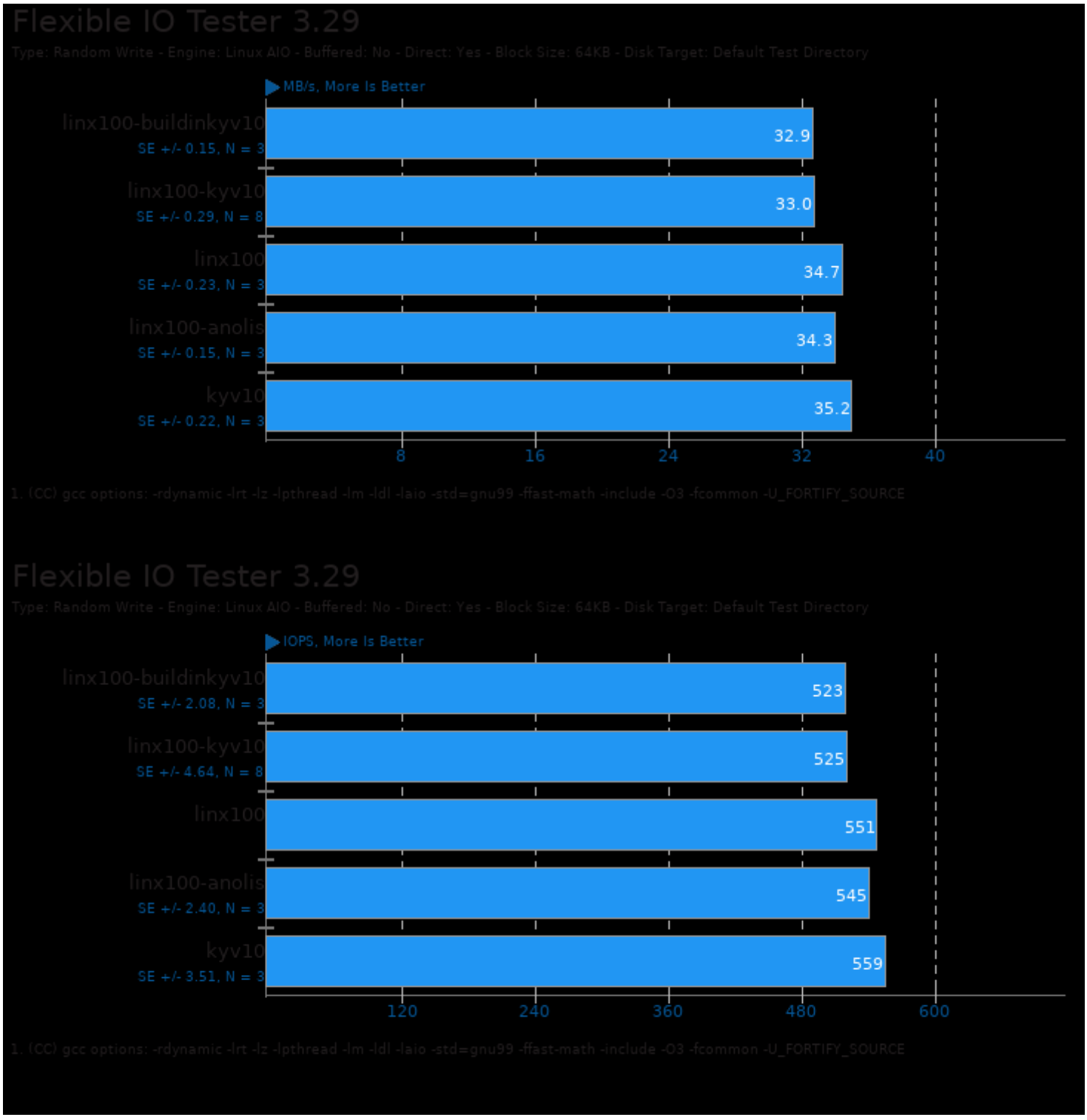



Flexible IO Tester 3.29
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 0.031, N = 3
9.730
linx100-kyv10
SE +/- 0.062, N = 3
9.604
linx100
SE +/- 0.061, N = 3
9.920
linx100-anolis
SE +/- 0.095, N = 3
9.920
kyv10
SE +/- 0.082, N = 3
9.952
3
6
9
12
15
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
linx100-buildinkyv10
SE +/- 1.86, N = 3
605
linx100-kyv10
SE +/- 3.93, N = 3
597
linx100
SE +/- 9.07, N = 3
627
linx100-anolis
SE +/- 8.25, N = 3
625
kyv10
SE +/- 8.97, N = 3
627
140
280
420
560
700
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

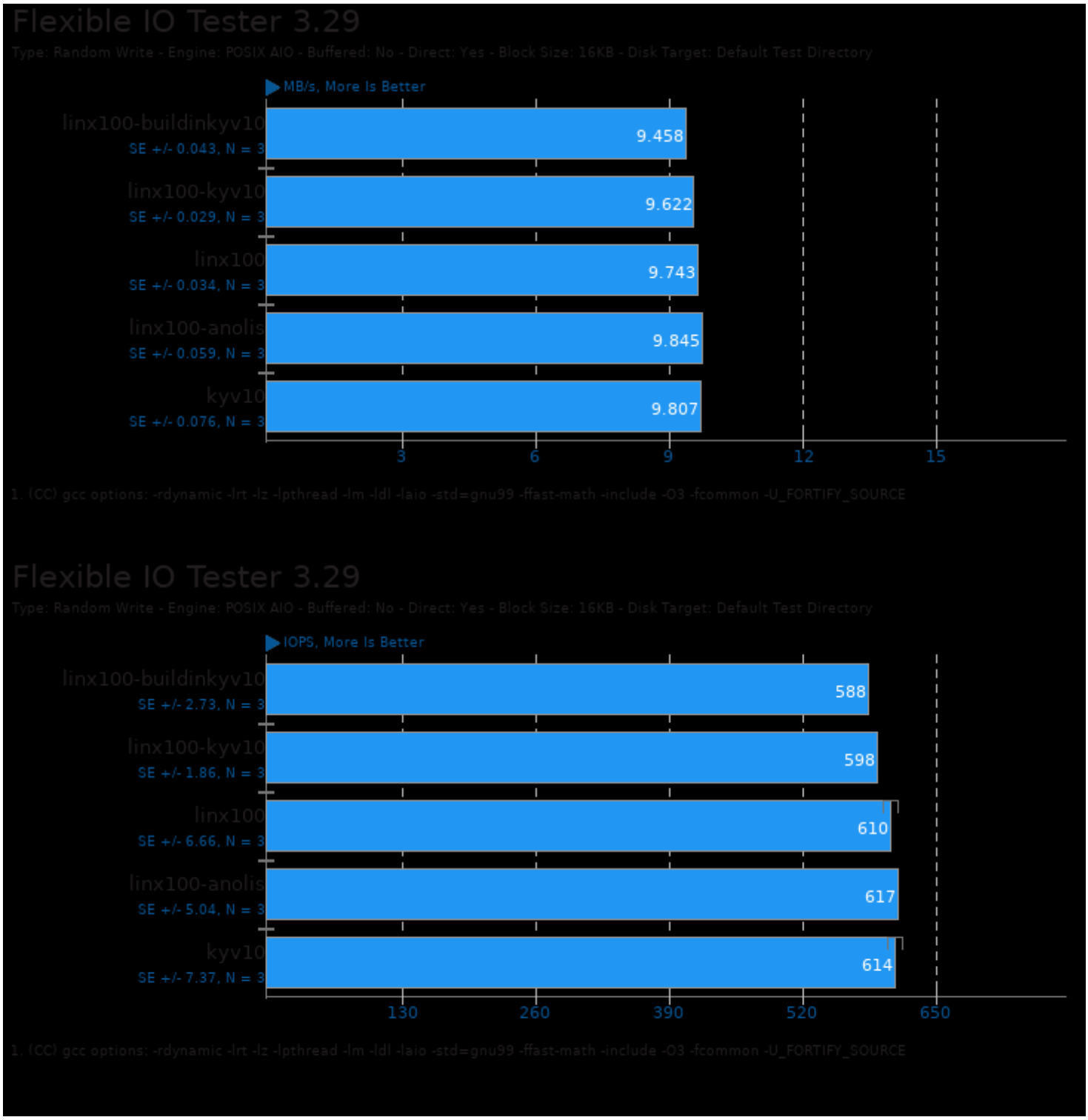
fio-performance



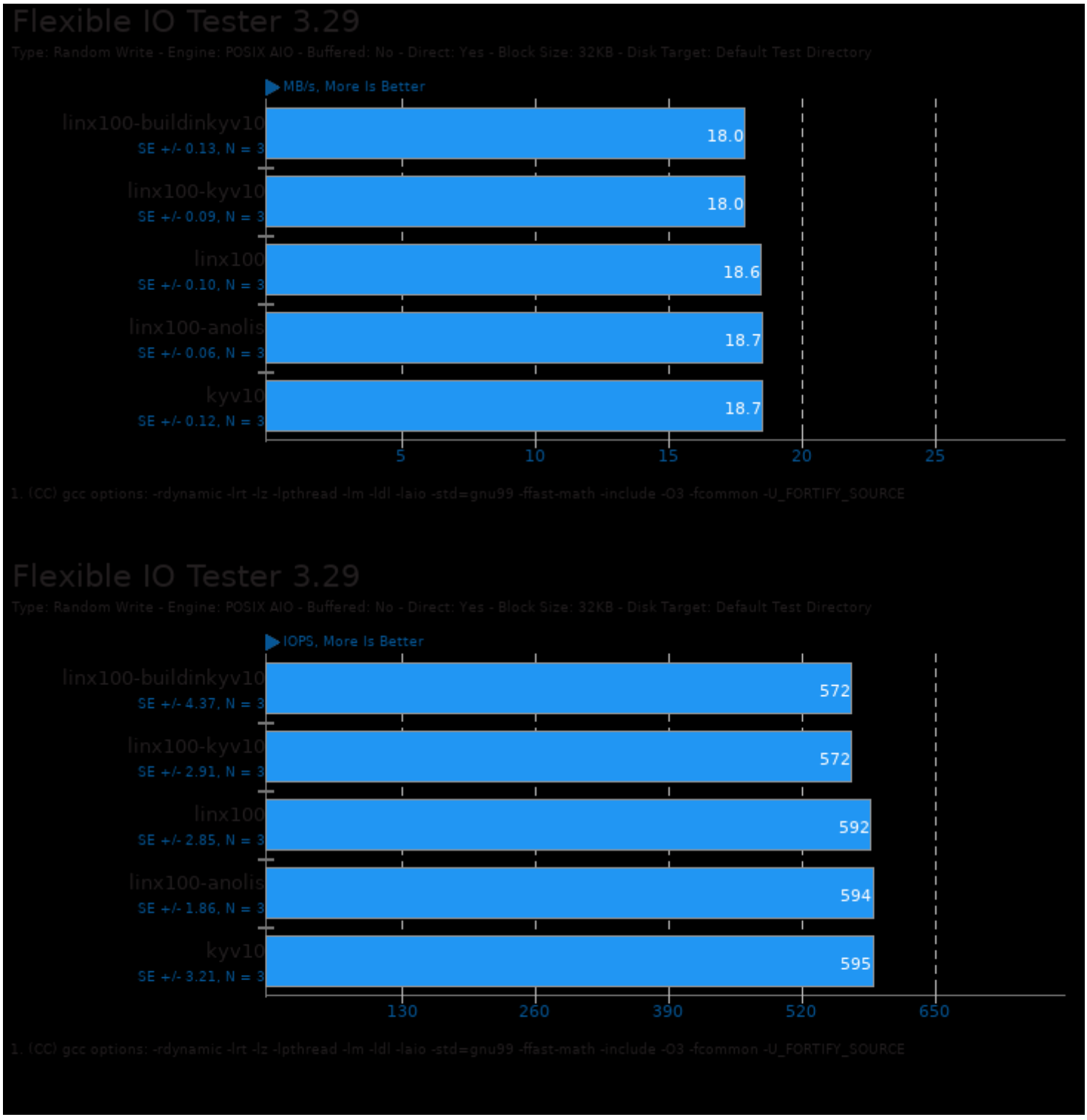
fio-performance



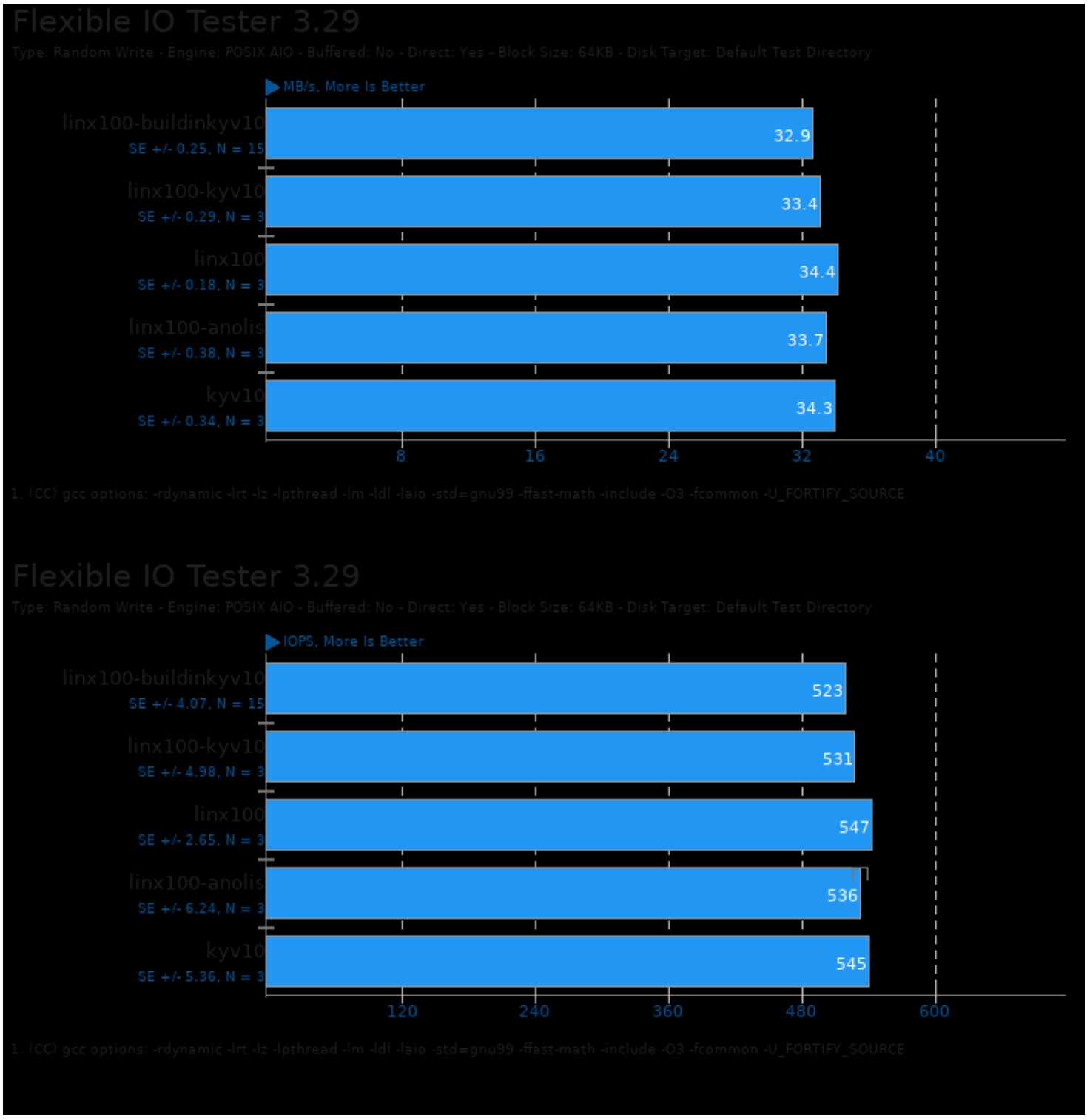
fio-performance

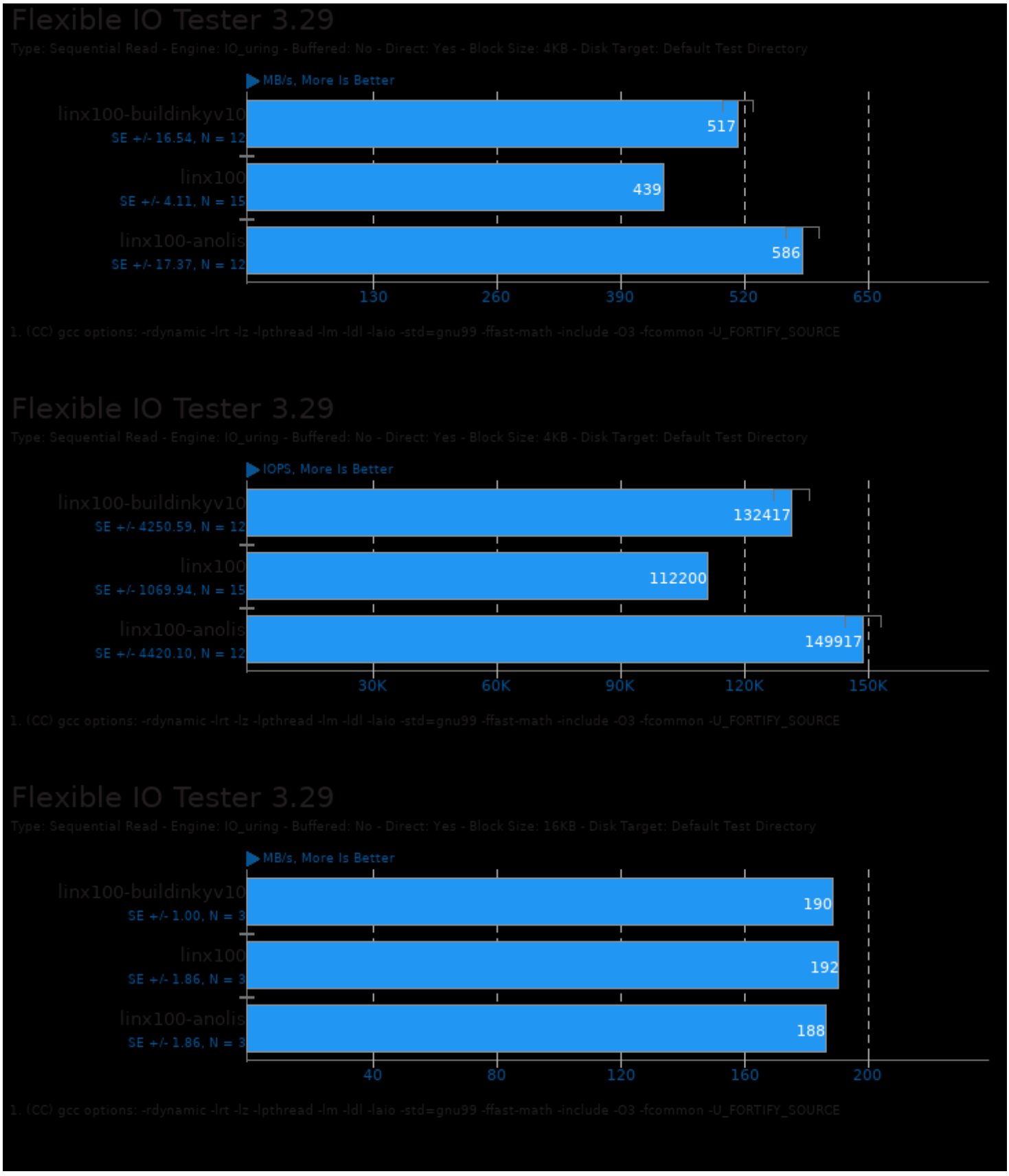


fio-performance

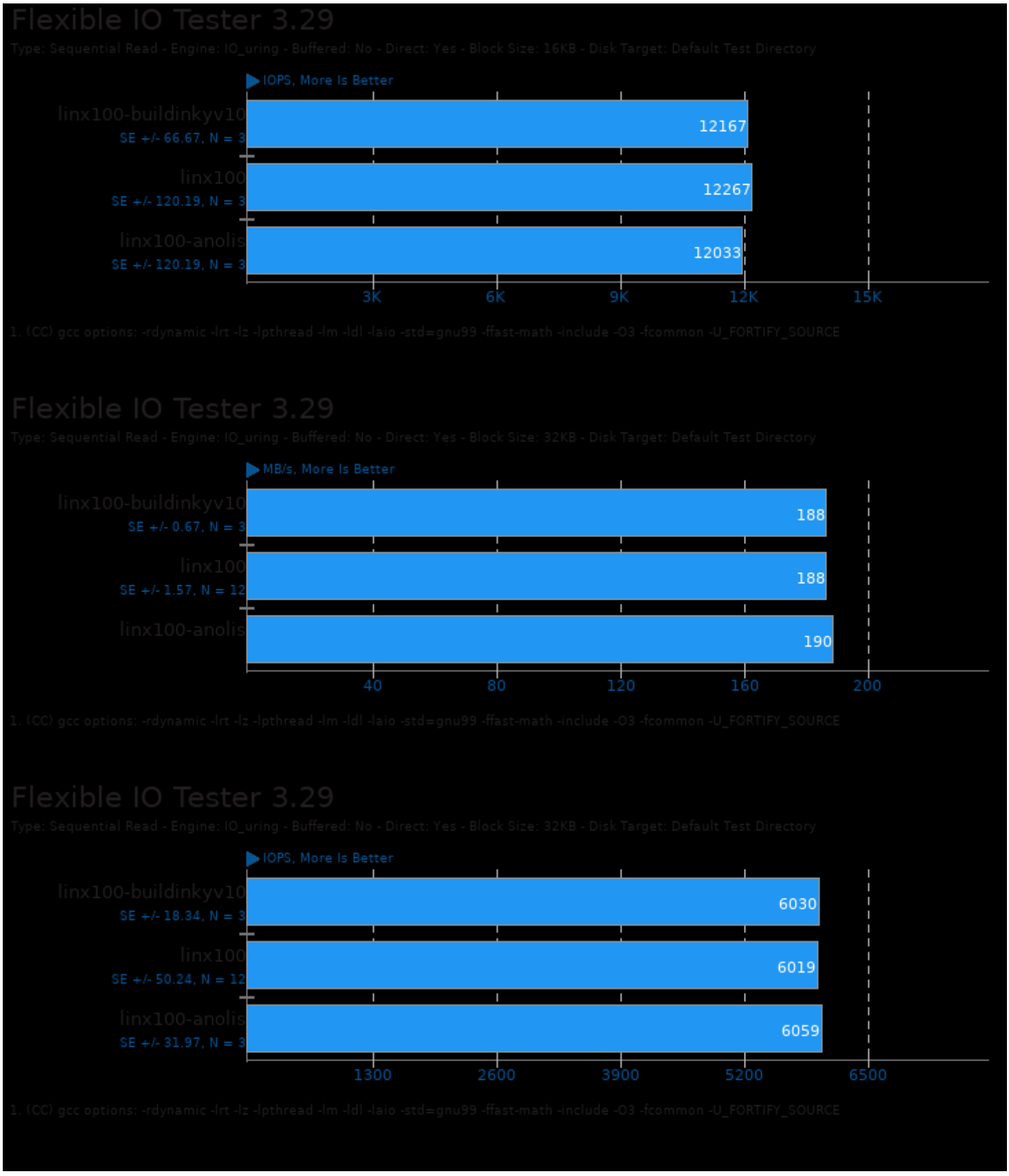


fio-performance

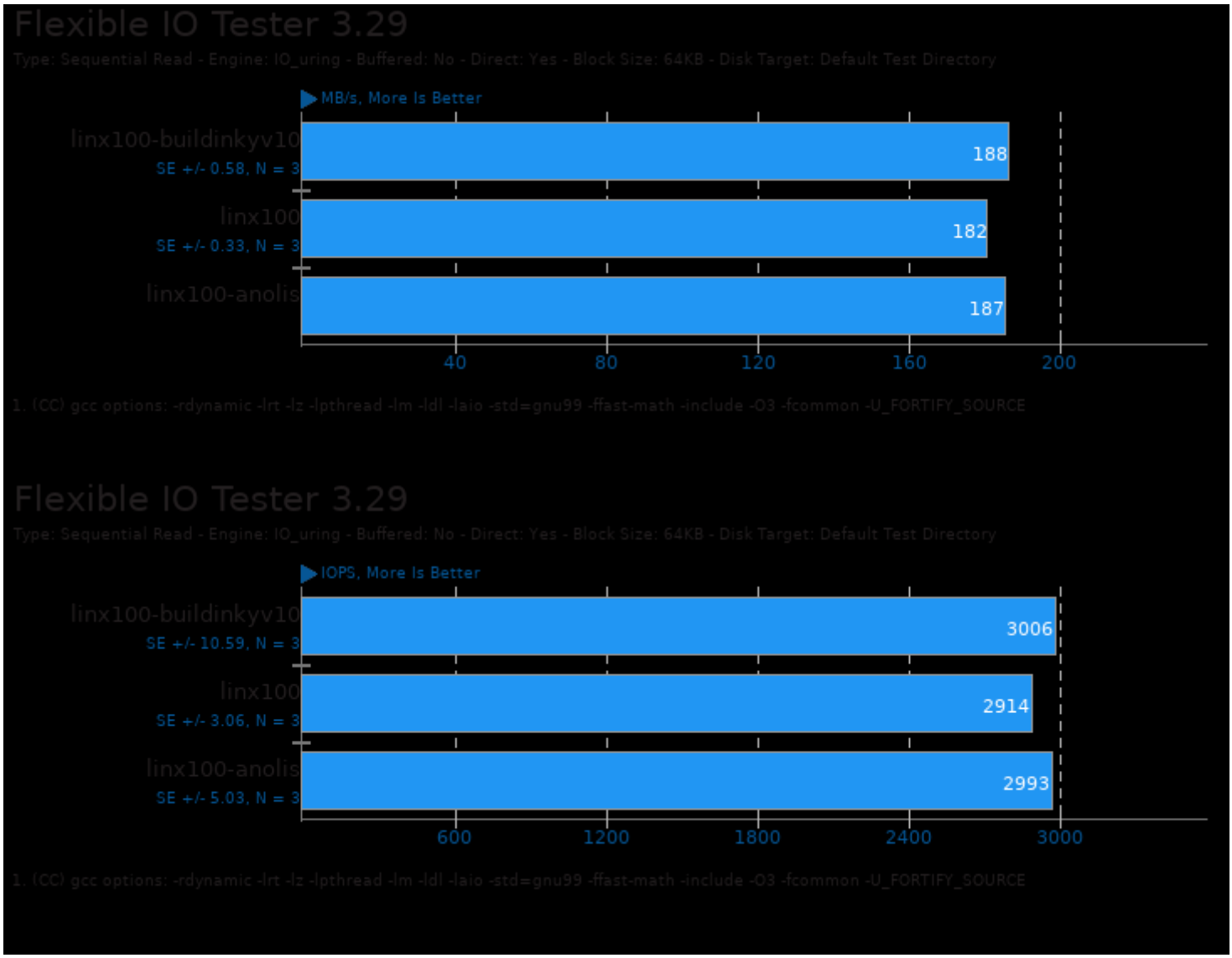



Flexible IO Tester 3.29
Type: Sequential Read - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 16.54, N = 12
517
linx100
SE +/- 4.11, N = 15
439
linx100-anolis
SE +/- 17.37, N = 12
586
130
260
390
520
650
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Sequential Read - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
linx100-buildinkyv10
SE +/- 4250.59, N = 12
132417
linx100
SE +/- 1069.94, N = 15
112200
linx100-anolis
SE +/- 4420.10, N = 12
149917
30K
60K
90K
120K
150K
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Sequential Read - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 1.00, N = 3
190
linx100
SE +/- 1.86, N = 3
192
linx100-anolis
SE +/- 1.86, N = 3
188
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

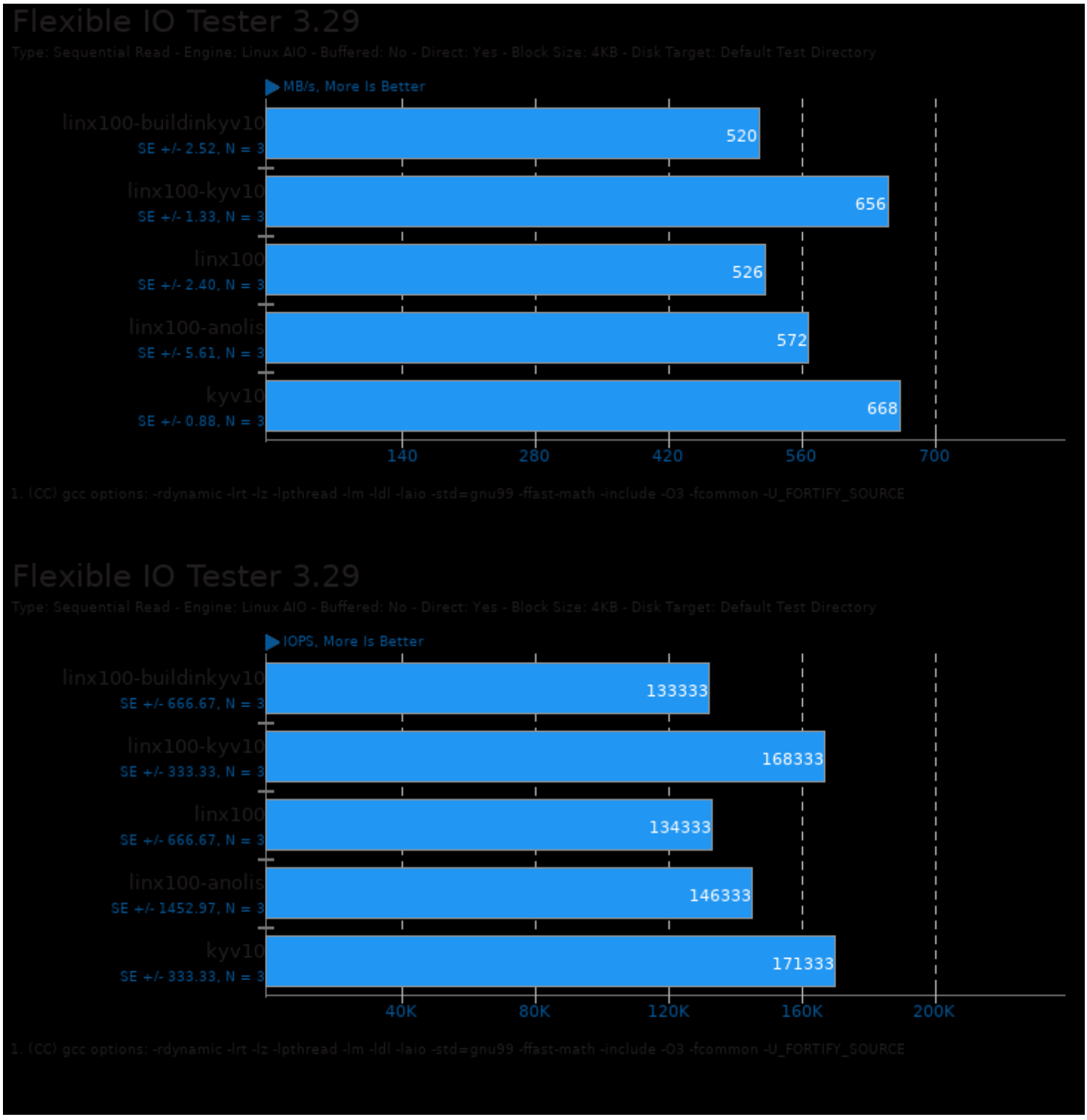
fio-performance



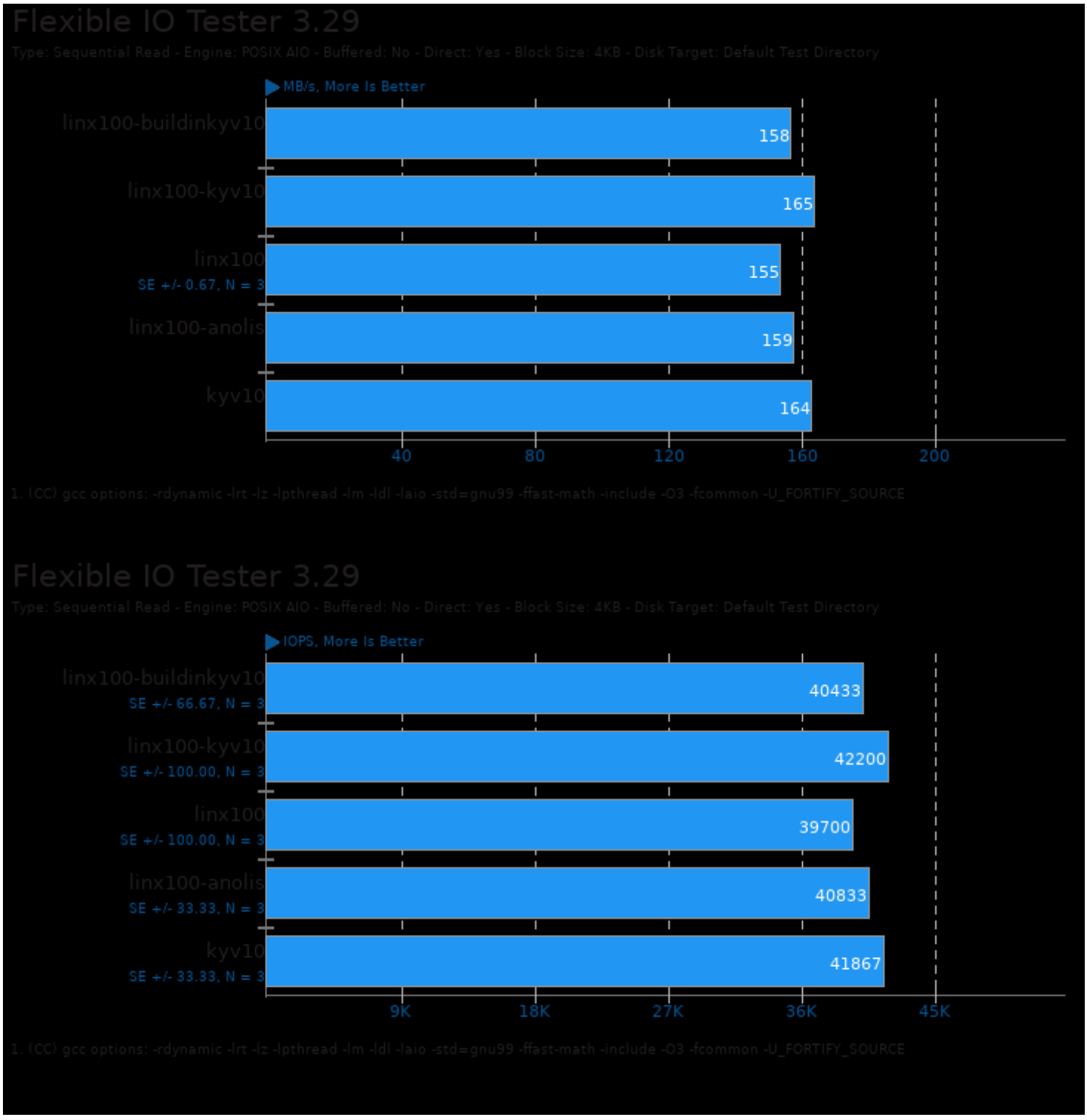
fio-performance



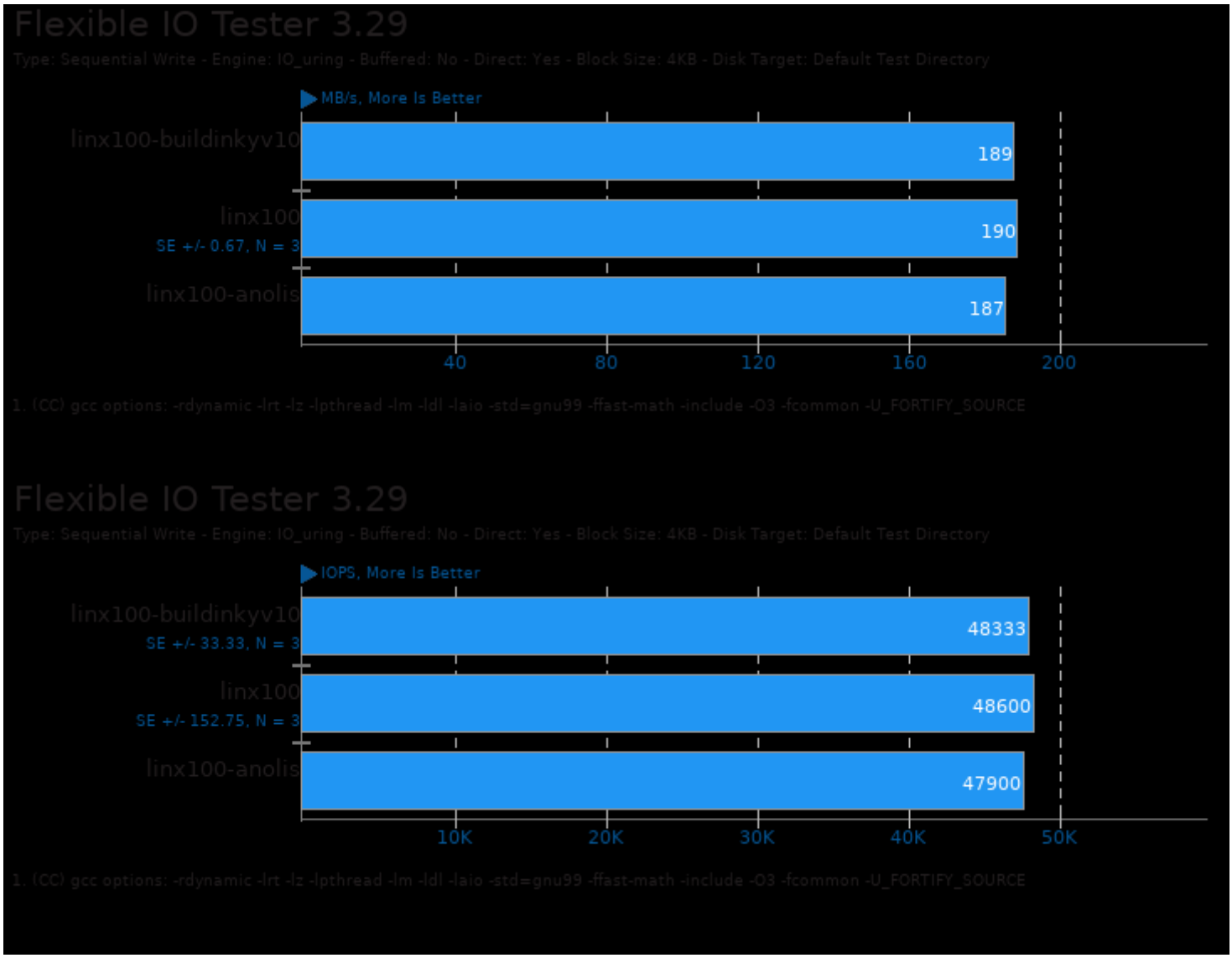
fio-performance

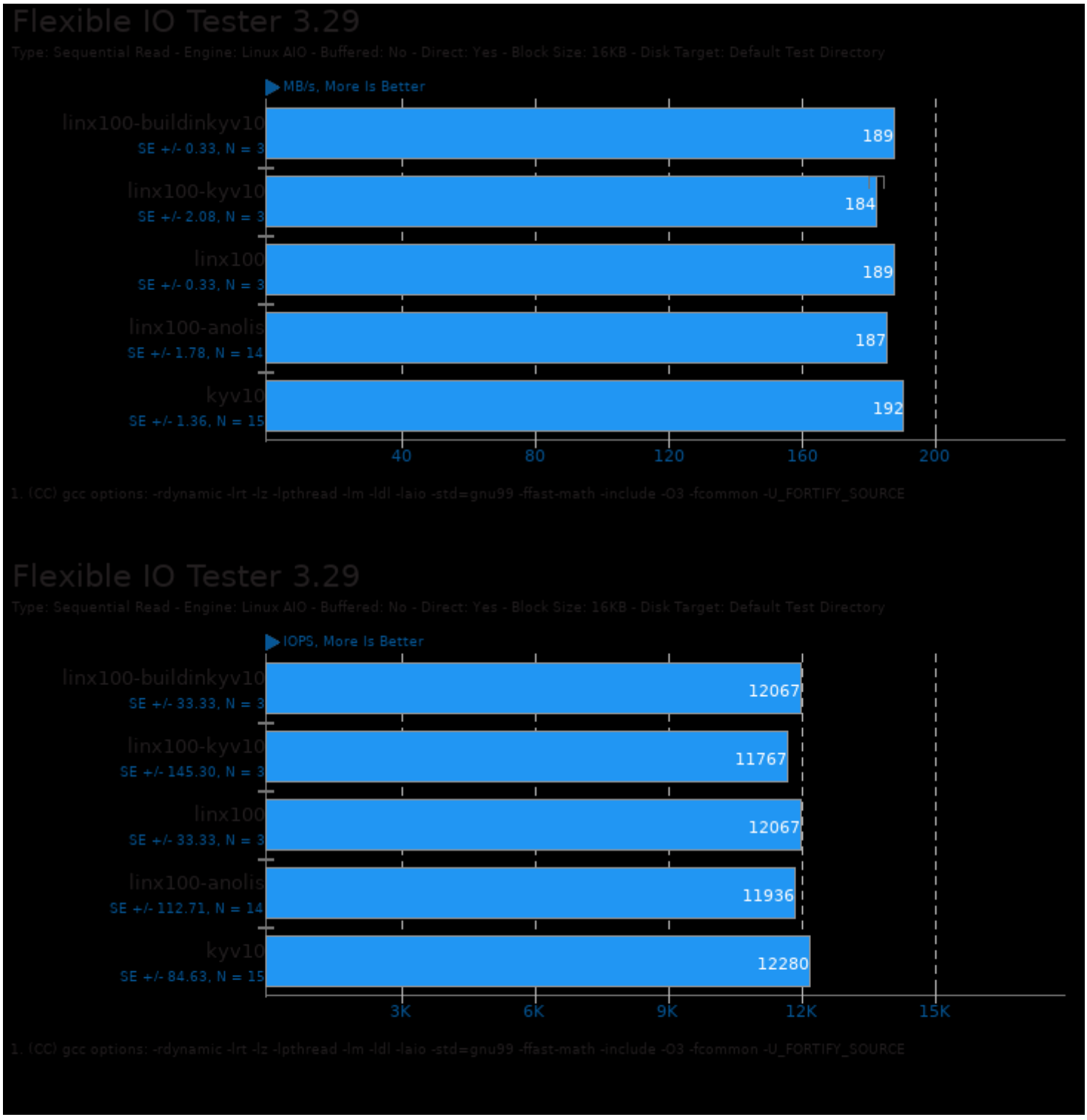


fio-performance



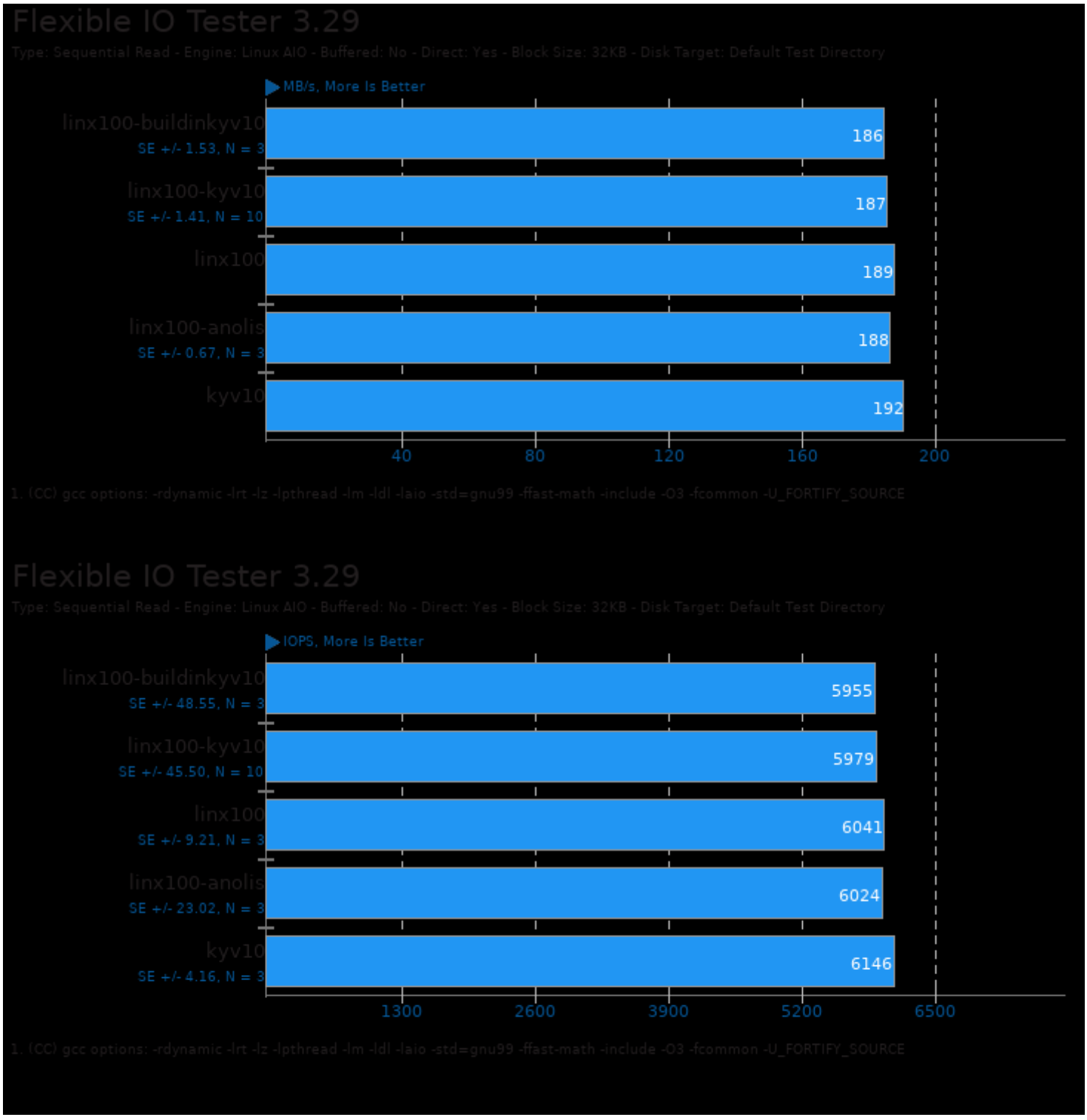
fio-performance



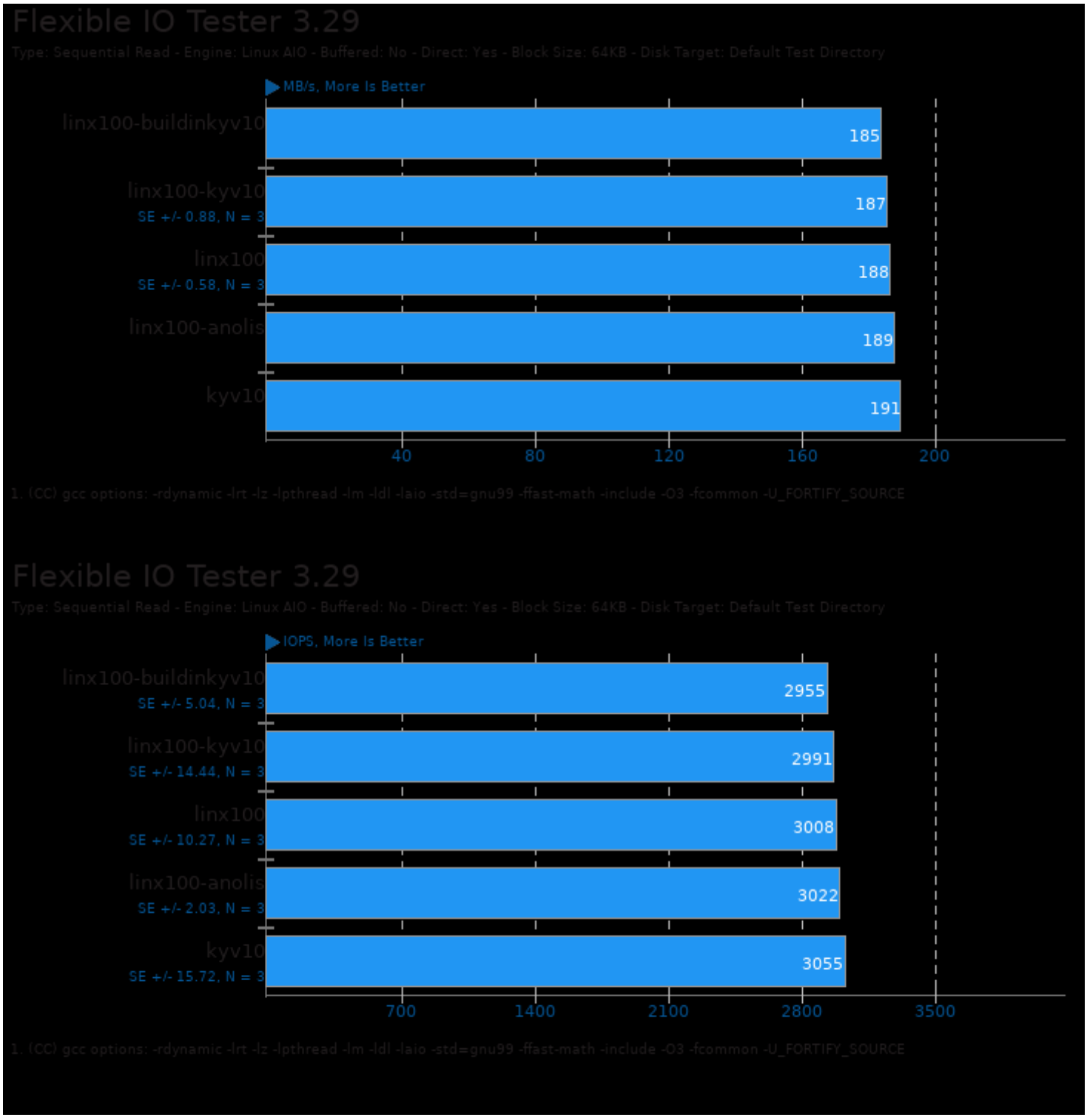

Flexible IO Tester 3.29
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 0.33, N = 3
189
linx100-kyv10
SE +/- 2.08, N = 3
184
linx100
SE +/- 0.33, N = 3
189
linx100-anolis
SE +/- 1.78, N = 14
187
kyv10
SE +/- 1.36, N = 15
192
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.29
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
linx100-buildinkyv10
SE +/- 33.33, N = 3
12067
linx100-kyv10
SE +/- 145.30, N = 3
11767
linx100
SE +/- 33.33, N = 3
12067
linx100-anolis
SE +/- 112.71, N = 14
11936
kyv10
SE +/- 84.63, N = 15
12280
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

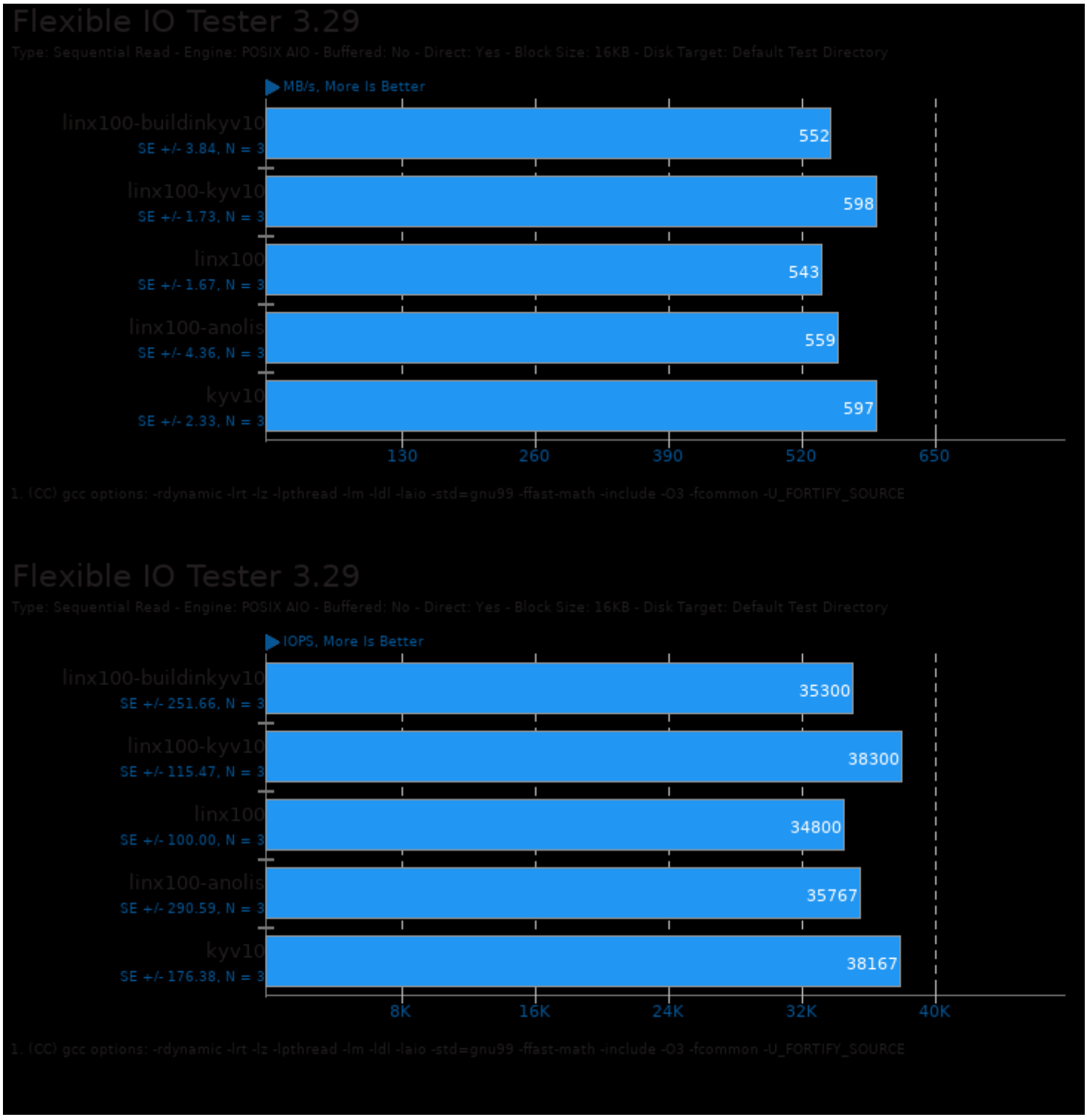
fio-performance



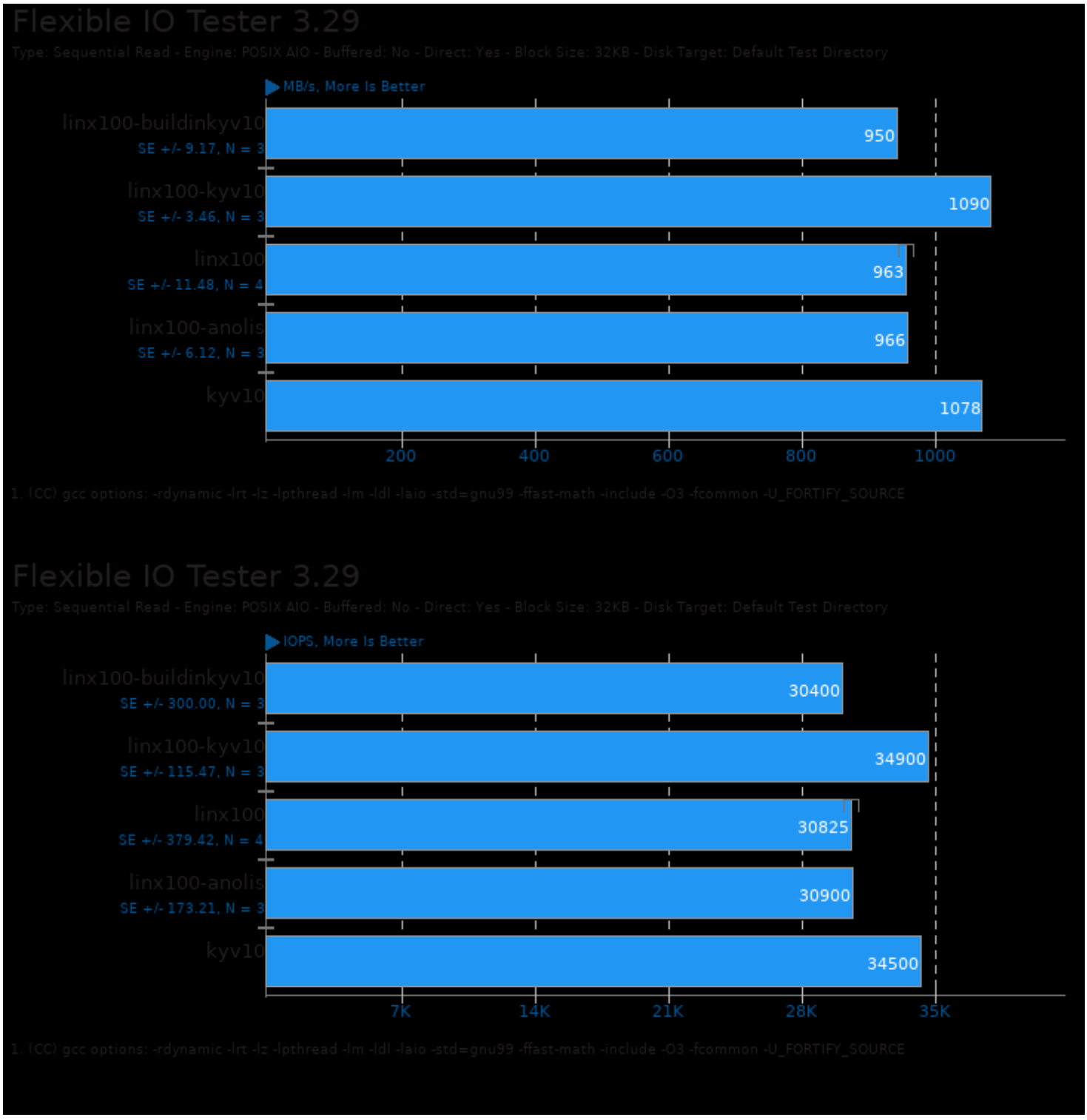
fio-performance



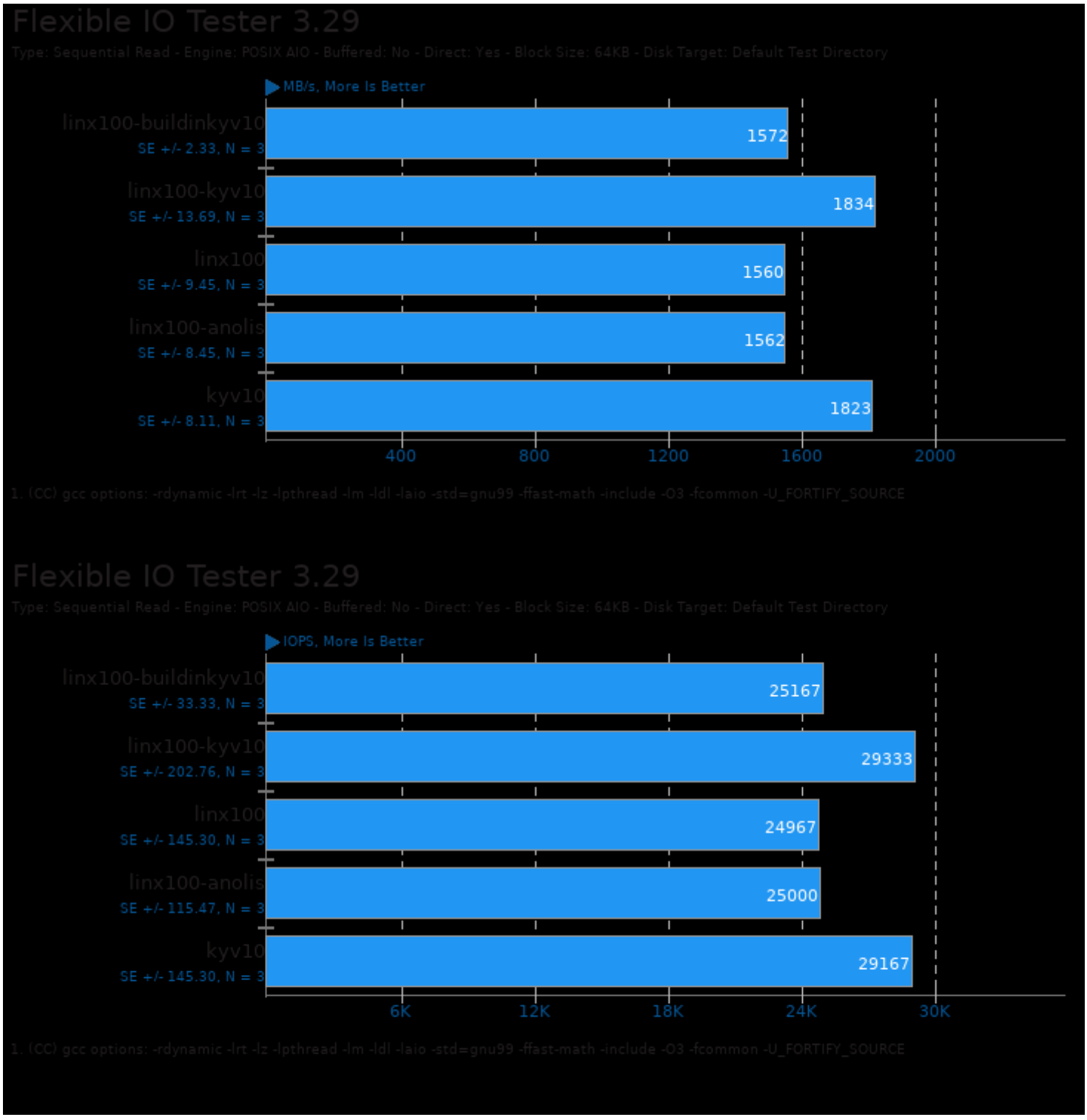
fio-performance

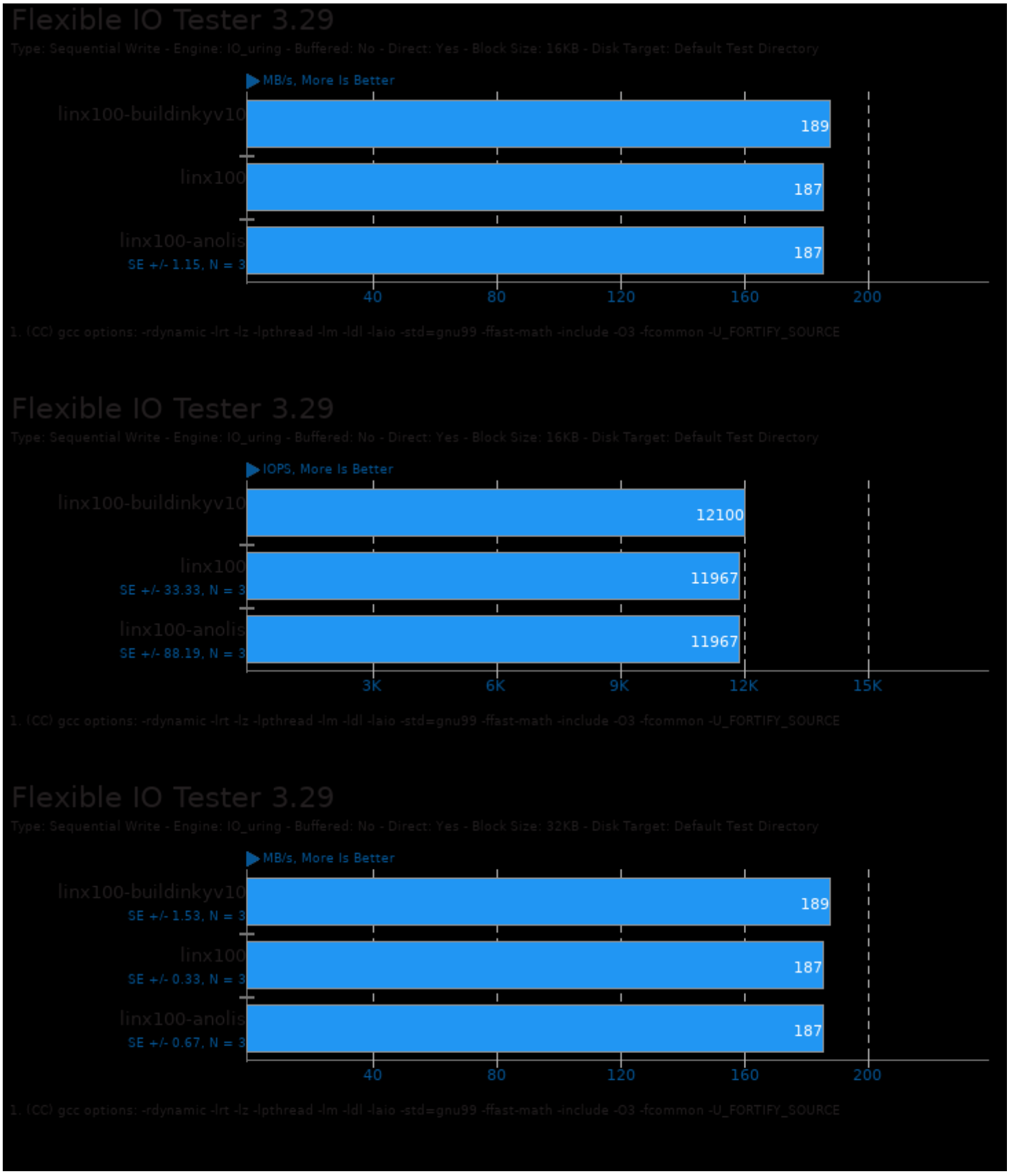


fio-performance

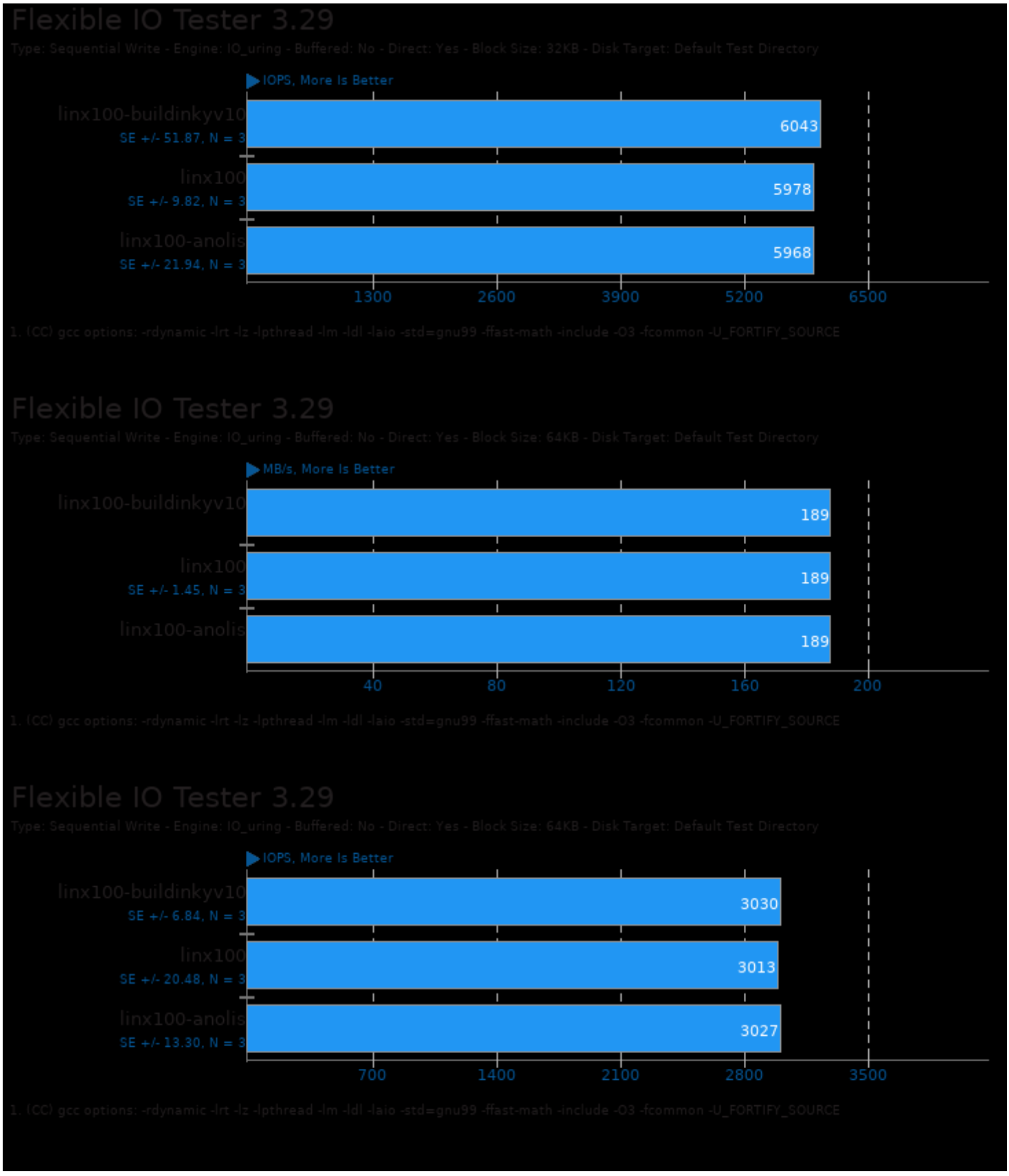


fio-performance

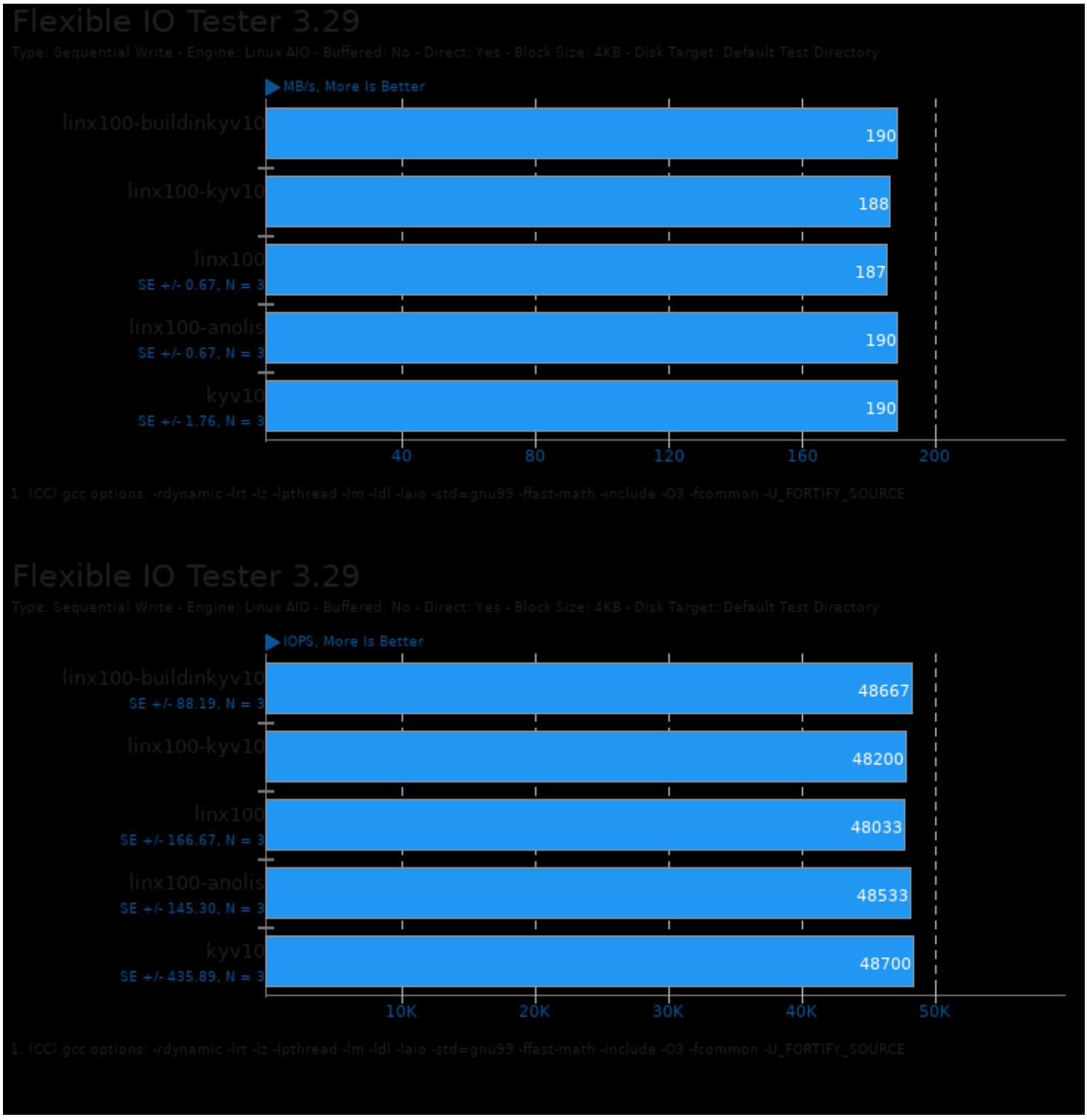


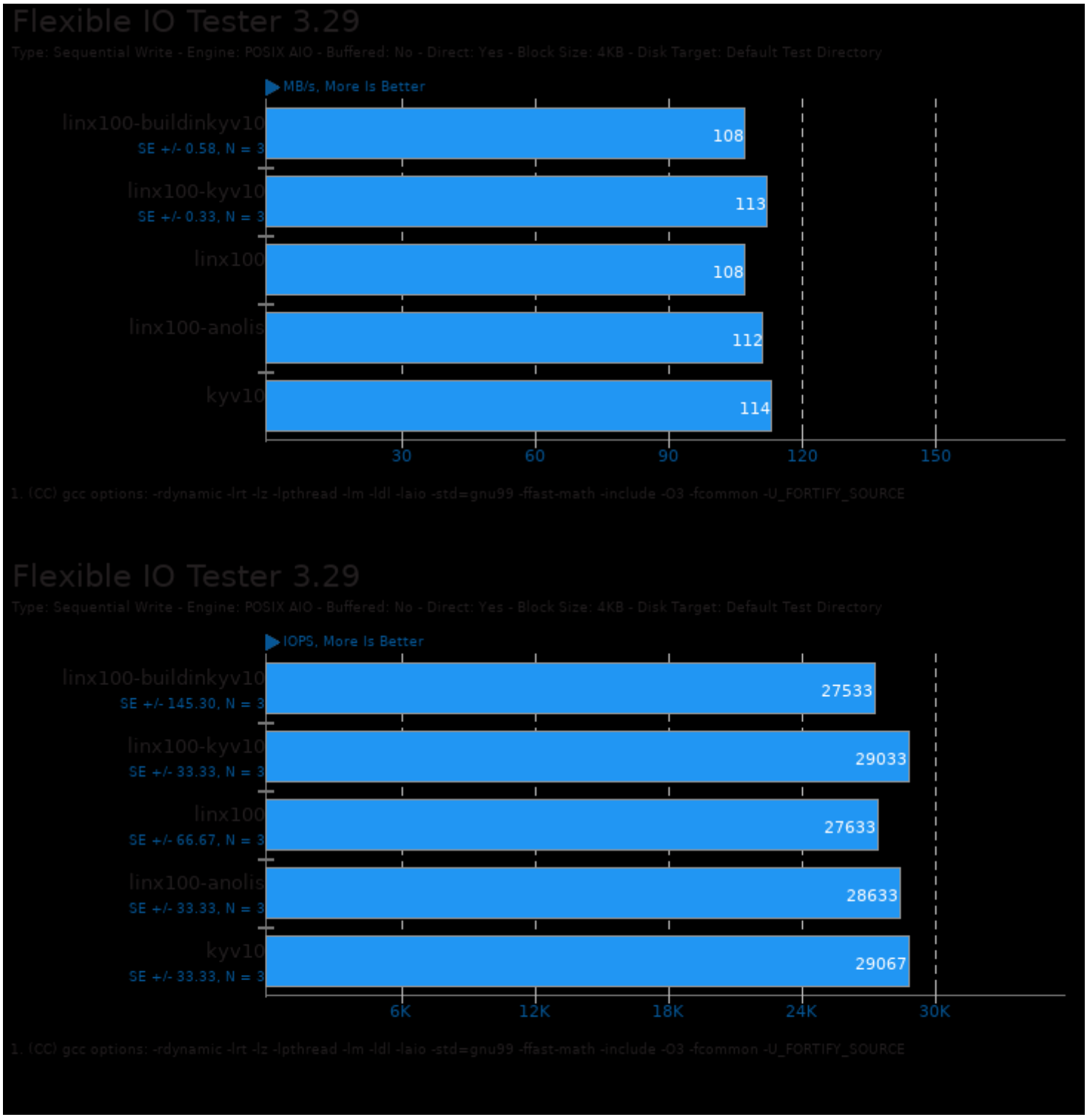

Flexible IO Tester 3.29
Type: Sequential Write - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
189
linx100
187
linx100-anolis
187
SE +/- 1.15, N = 3
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Sequential Write - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
linx100-buildinkyv10
12100
linx100
11967
SE +/- 33.33, N = 3
linx100-anolis
11967
SE +/- 88.19, N = 3
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Sequential Write - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 1.53, N = 3
189
linx100
SE +/- 0.33, N = 3
187
linx100-anolis
SE +/- 0.67, N = 3
187
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

fio-performance

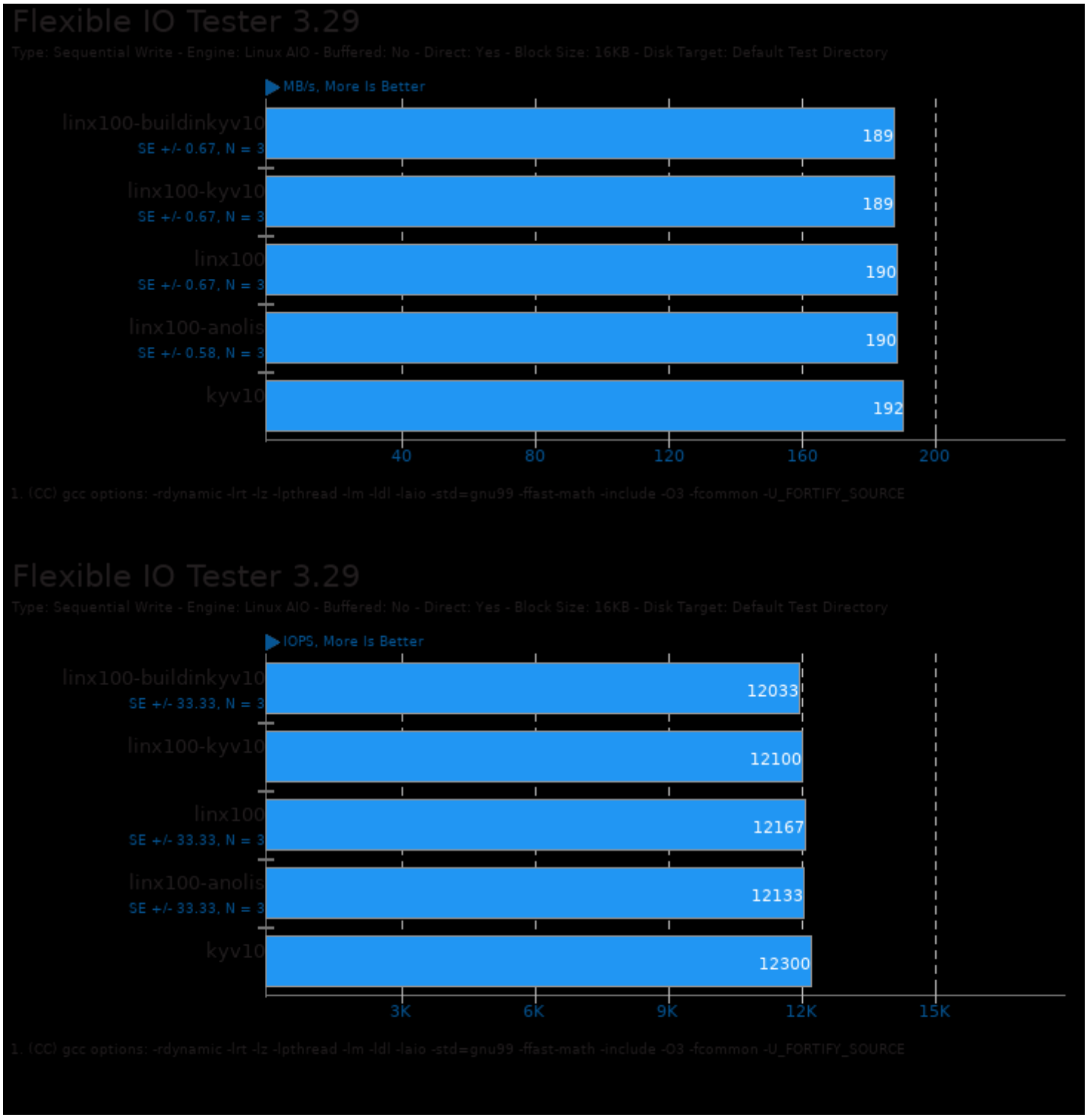


fio-performance

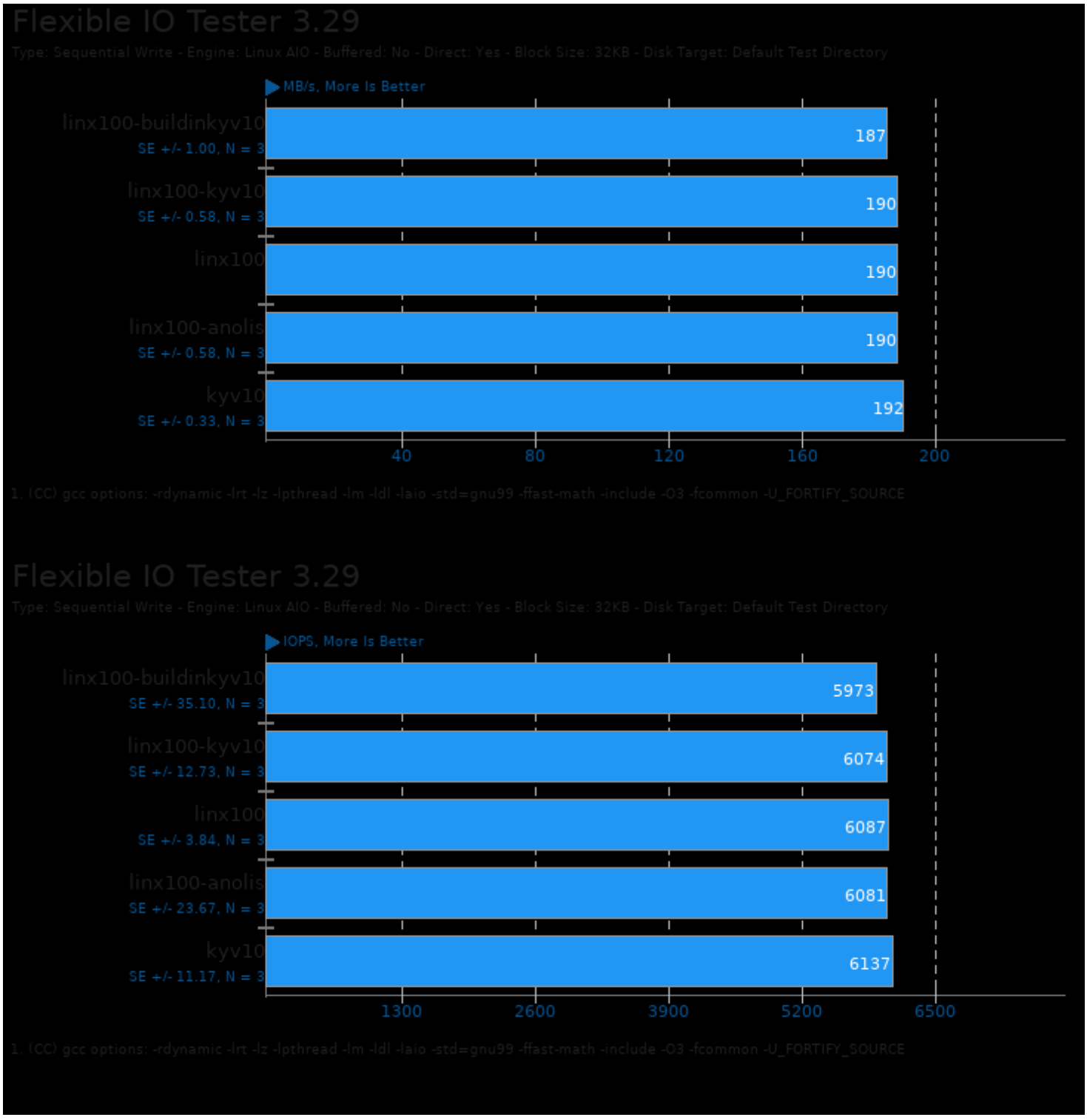



Flexible IO Tester 3.29
Type: Sequential Write - Engine: POSIX AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
linx100-buildinkyv10
SE +/- 0.58, N = 3
108
linx100-kyv10
SE +/- 0.33, N = 3
113
linx100
108
linx100-anolis
112
kyv10
114
30
60
90
120
150
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE
Flexible IO Tester 3.29
Type: Sequential Write - Engine: POSIX AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
linx100-buildinkyv10
SE +/- 145.30, N = 3
27533
linx100-kyv10
SE +/- 33.33, N = 3
29033
linx100
SE +/- 66.67, N = 3
27633
linx100-anolis
SE +/- 33.33, N = 3
28633
kyv10
SE +/- 33.33, N = 3
29067
6K
12K
18K
24K
30K
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

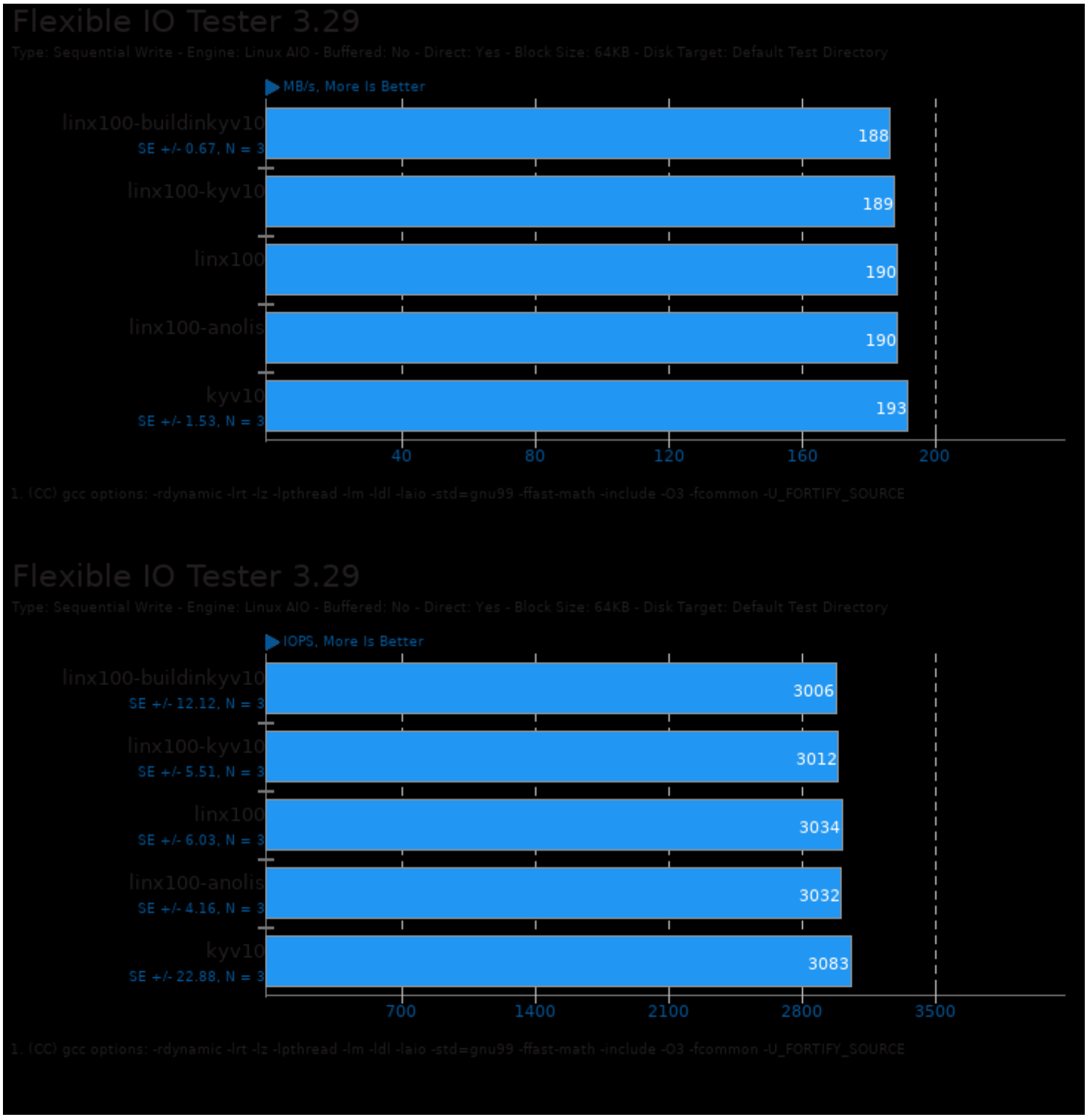
fio-performance



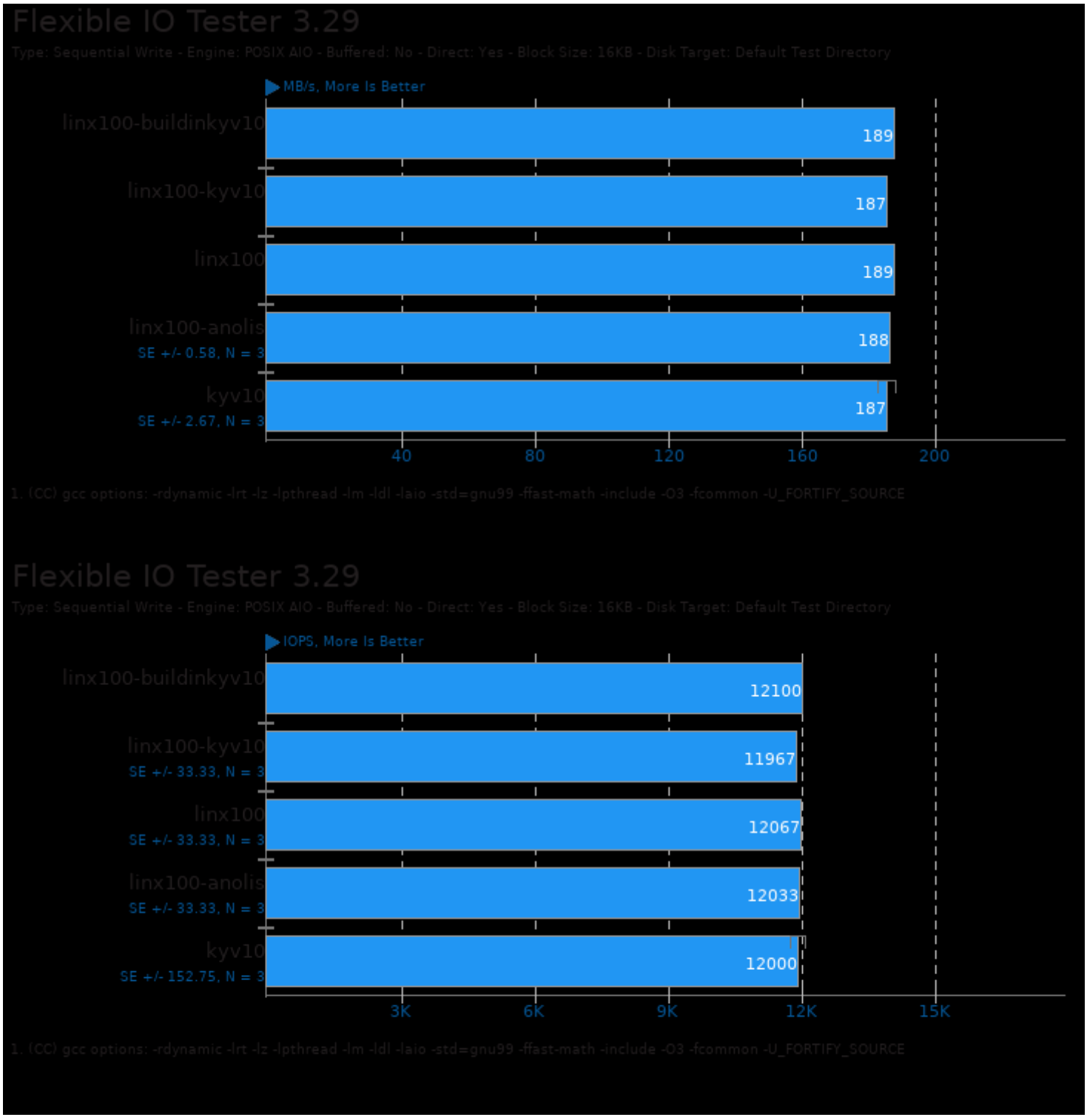
fio-performance



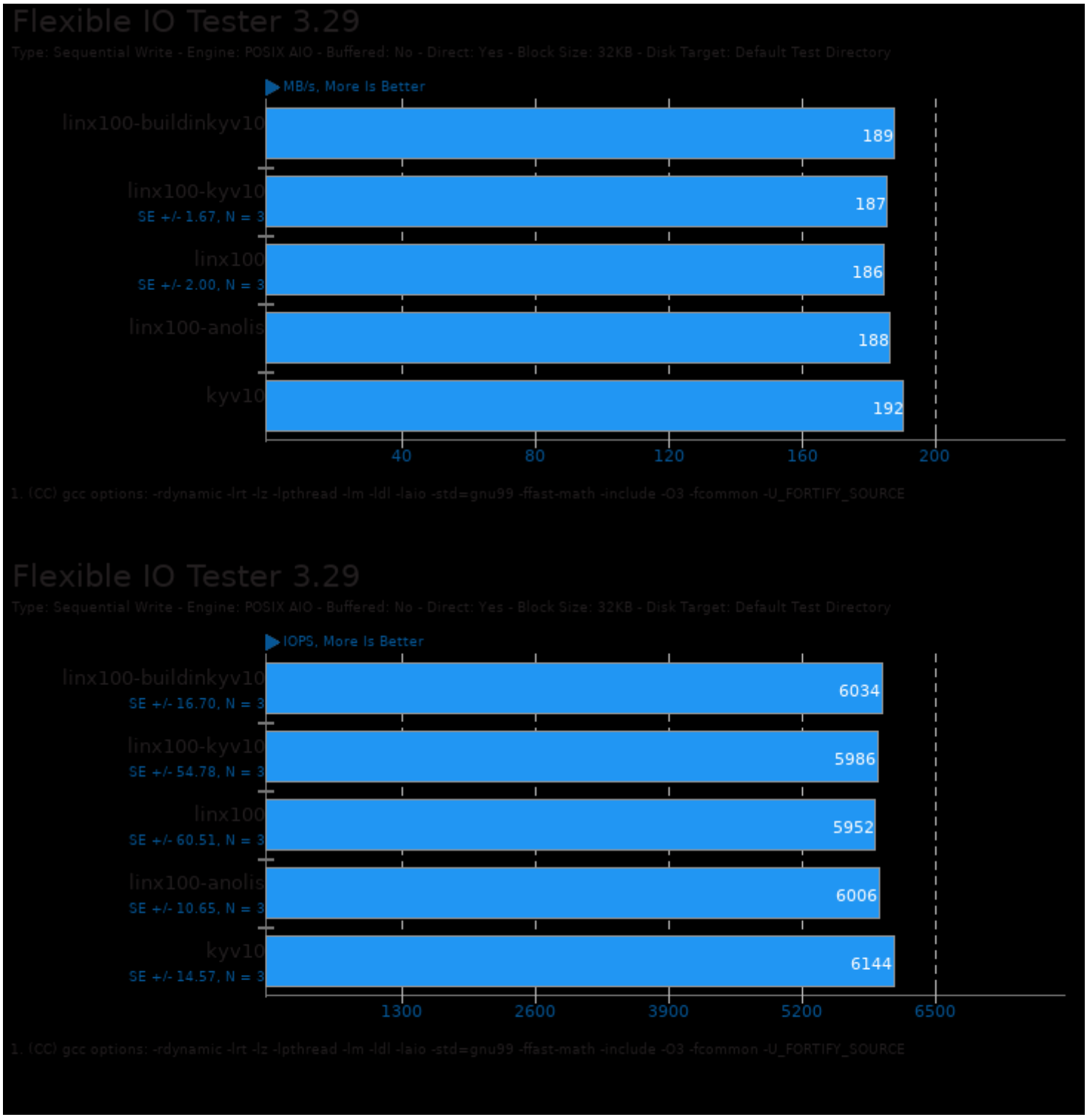
fio-performance

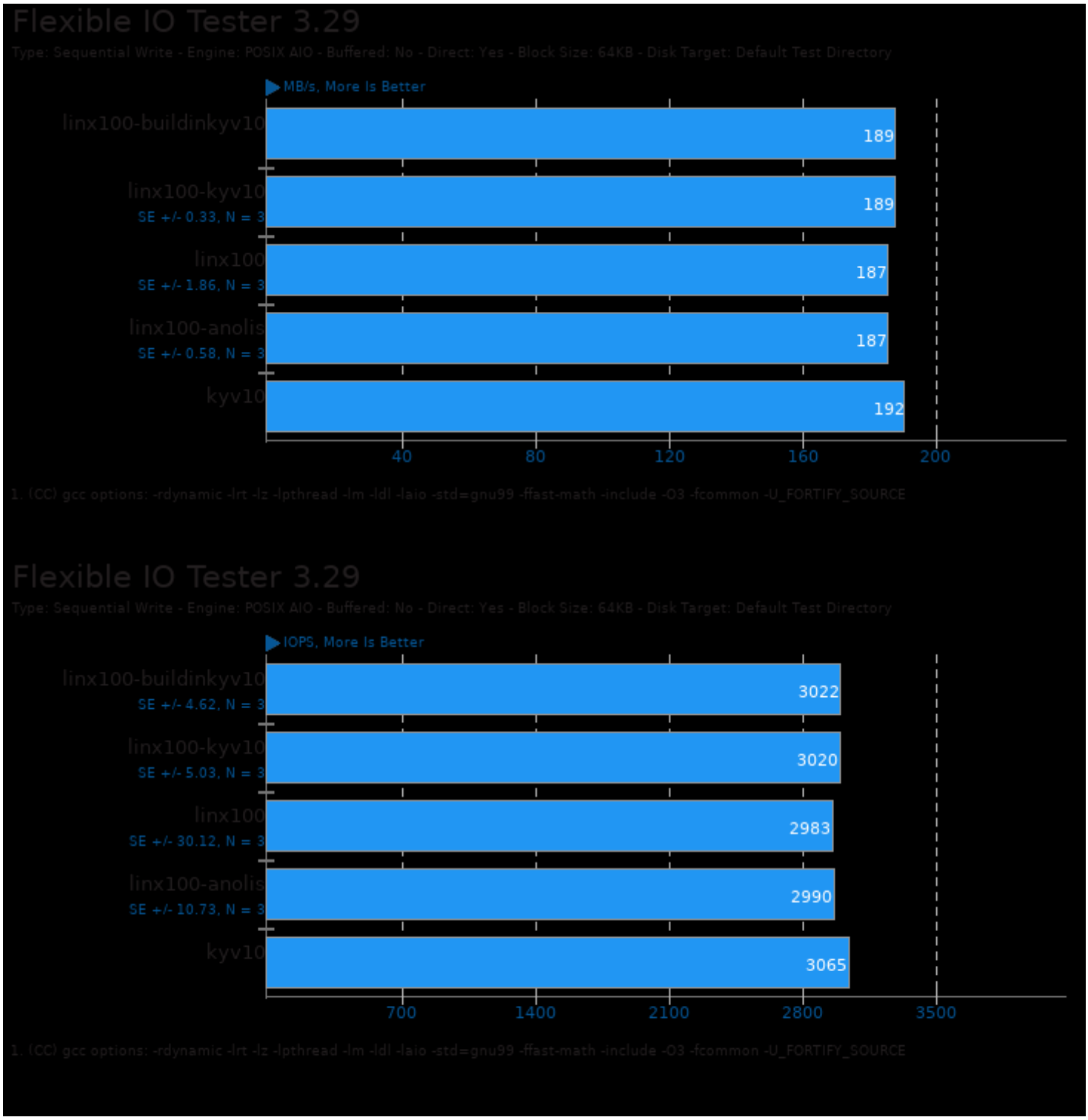


fio-performance



fio-performance





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