

www.phoronix-test-suite.com

performance-linx-software

Unknown testing with a THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS) and Huawei Hi1710 [iBMC Intelligent Management chip w/VGA support] on openEuler 20.03 via the Phoronix Test Suite.

Automated Executive Summary

kyv10-serversp2 had the most wins, coming in first place for 24% of the tests.

Based on the geometric mean of all complete results, the fastest (kyv10-serversp2) was 1.308x the speed of the slowest (openeuler-22-03-LTS).

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

IOzone (Record Size: 64Kb - File Size: 512MB - Disk Test: Write Performance) at 15.175x
Dbench (Client Count: 6) at 9.568x
FS-Mark (Test: 4000 Files, 32 Sub Dirs, 1MB Size) at 5.758x
FS-Mark (Test: 1000 Files, 1MB Size) at 5.453x
Threaded I/O Tester (Test: Read - Size Per Thread: 32MB - Thread Count: 4) at 3.464x
FS-Mark (Test: 5000 Files, 1MB Size, 4 Threads) at 3.227x
FS-Mark (Test: 1000 Files, 1MB Size, No Sync/FSync) at 2.593x
Threaded I/O Tester (Test: Read - Size Per Thread: 64MB - Thread Count: 4) at 2.47x
RAMspeed SMP (Type: Scale - Benchmark: Integer) at 2.132x

Compile Bench (Test: Initial Create) at 2.116x.

Test Systems:

Anolis-OS-8.5

Processor: Unknown @ 2.60GHz (64 Cores), Motherboard: THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS), Chipset: Huawei HiSilicon, Memory: 4 x 16 GB DDR4-2933MT/s Hynix HMA82GR7CJR8N-WM, Disk: 1999GB HW-SAS3508, Graphics: Huawei Hi171x [iBMC Intelligent Management chip w/VGA support], Network: 4 x Huawei HNS GE/10GE/25GE

OS: Anolis OS 8.5, Kernel: 4.19.91-23.4.an8.aarch64 (aarch64) 20210430, Display Server: X Server, File-System: ext4, Screen Resolution: 640x480

Kernel Notes: Transparent Huge Pages: always
Disk Notes: MQ-DEADLINE / relatime,rw,seclabel,stripe=64 / Block Size: 4096
Processor Notes: Scaling Governor: cppc_cpufreq performance
Python Notes: Python 3.6.8
Security Notes: SELinux + 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

Linx-120-arm64

Processor: Unknown @ 2.60GHz (64 Cores), Motherboard: THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS), Chipset: Huawei HiSilicon, Memory: 4 x 16 GB DDR4-2933MT/s Hynix HMA82GR7CJR8N-WM, Disk: 1999GB HW-SAS3508, Graphics: Huawei Hi171x [iBMC Intelligent Management chip w/VGA support], Network: 4 x Huawei HNS GE/10GE/25GE

OS: Linx 12, Kernel: 4.19.0-11-linx-security-arm64 (aarch64), Display Server: X Server 1.21.1.3, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: always
Environment Notes: DEBUGINFOD_URLS=
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw,stripe=64 / Block Size: 4096
Processor Notes: Scaling Governor: cppc_cpufreq performance
Python Notes: Python 3.9.11
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

4 x 16384 MB DDR4-2933MT

kyv10-serversp2

kyv10-server-sp2

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

OS: Kylin Linux Advanced Server V10, Kernel: 4.19.90-25.14.v2101.ky10.aarch64 (aarch64) 20220415, 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
Processor Notes: Scaling Governor: cppc_cpufreq performance
Python Notes: Python 2.7.18 + Python 3.7.9
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

linx-100

linx100-arm64

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
Python Notes: Python 2.7.16 + Python 3.7.3
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-origin

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
Python Notes: Python 2.7.16 + Python 3.7.3
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-openeuler-origin

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
Python Notes: Python 2.7.16 + Python 3.7.3
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-kyv10sp2

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
Python Notes: Python 2.7.16 + Python 3.7.3
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-buildinkyyv10

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
Python Notes: Python 2.7.16 + Python 3.7.3
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

openeuler-22-03-LTS

Processor: Unknown (64 Cores), Motherboard: THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS), Chipset: Huawei HiSilicon, Memory: 4 x 16 GB DDR4-2933MT/s Hynix HMA82GR7CJR8N-WM, Disk: 1999GB HW-SAS3508, Graphics: Huawei Hi171x [iBMC Intelligent Management chip w/VGA support], Monitor: S24D300, Network: 4 x Huawei HNS GE/10GE/25GE

OS: openEuler 22.03 LTS, Kernel: 5.10.0-60.18.0.50.oe2203.aarch64 (aarch64) 20220329, Compiler: GCC 10.3.1, File-System: ext4, Screen Resolution: 640x480

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-bootstrap --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bolt --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,lto --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-boot-ldflags=' --with-linker-hash-style=gnu --with-multilib-list=lp64 --with-stage1-ldflags=' --without-cloog --without-isl -Wl,-z,relro,-z,now' -Wl,-z,relro,-z,now'

Disk Notes: NONE / relatime,rw,seclabel,stripe=64 / Block Size: 4096
Python Notes: Python 3.9.9
Security Notes: SELinux + 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

openeuler-2203-LTS

Processor: Unknown (64 Cores), Motherboard: THTF BC82AMDGE (KL4.41.017.TF.201225.R BIOS), Chipset: Huawei HiSilicon, Memory: 4 x 16 GB DDR4-2933MT/s Hynix HMA82GR7CJR8N-WM, Disk: 1999GB HW-SAS3508, Graphics: Huawei Hi171x [iBMC Intelligent Management chip w/VGA support], Monitor: S24D300, Network: 4 x Huawei HNS GE/10GE/25GE

OS: openEuler 22.03 LTS, Kernel: 5.10.0-60.27.0.57.oe2203.aarch64 (aarch64) 20220506, Compiler: GCC 10.3.1, File-System: ext4, Screen Resolution: 640x480

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-bootstrap --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bolt --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,lto --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-boot-ldflags=' --with-linker-hash-style=gnu --with-multilib-list=lp64 --with-stage1-ldflags=' --without-cloog --without-isl -Wl,-z,relro,-z,now' -Wl,-z,relro,-z,now'
Disk Notes: NONE / relatime,rw,seclabel,stripe=64 / Block Size: 4096
Python Notes: Python 3.9.9
Security Notes: SELinux + 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

openeuler-20.03

openeuler-2003

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: Huawei Hi1710 [iBMC Intelligent Management chip w/VGA support], Network: 4 x Huawei HNS GE/10GE/25GE

OS: openEuler 20.03, Kernel: 4.19.90-2003.4.0.0036.oe1.aarch64 (aarch64) 20200323, Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 640x480

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,lto --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-boot-ldflags=' --with-linker-hash-style=gnu --with-multilib-list=lp64 --with-stage1-ldflags=' --without-cloog -Wl,-z,relro,-z,now' -Wl,-z,relro,-z,now'
Disk Notes: BFQ / relatime,rw,seclabel,stripe=64 / Block Size: 4096
Python Notes: Python 2.7.16 + Python 3.7.4
Security Notes: SELinux + 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 + tsx_async_abort: Not affected

performance-linx-software

	Anolis-OS-8.5	Linx-120-arm64	4 x 16384 MB DDR4-2933 MT	kyv10-serversp2	kyv10-server-sp2	linx-100	linx100-arm64	linx100-anolis-origin	linx100-openeuler-origin	linx100-kyv10sp2	linx100-buildinkyyv10	openeuler-22-03-LTS	openeuler-2203-LTS	openeuler-20.03	openeuler-2003
Dbench - 6 (MB/s)	391.113	400.821		**402.800**	394.757	368.850	374.786	396.770	350.454	389.749	377.824	**42.0965**	338.857		104.6524
Normalized	97.1%	99.51%		100%	98%	91.57%	93.05%	98.5%	87%	96.76%	93.8%	10.45%	84.13%		25.98%
Standard Deviation	0.3%	0.1%		1.7%	0.7%	0.5%	0.2%	0.2%	7.9%	5.2%	0.4%	0.8%	0.5%		10%
FS-Mark - 4.F.3.S.D.1.S (Files/s)	173.1	174.1	**180.8**	180.7	180.2	166.7	166.4	166.8	166.1	169.9	163.4	**31.4**	167.1		66.5
Normalized	95.74%	96.29%	100%	99.94%	99.67%	92.2%	92.04%	92.26%	91.87%	93.97%	90.38%	17.37%	92.42%		36.78%
Standard Deviation	0.8%	0.9%	0.4%	0.8%	0.3%	0.5%	1.1%	0.5%	0.7%	0.8%	0.5%	0.6%	0.6%		2.1%
FS-Mark - 1.F.1.S (Files/s)	173.3	172.8	180.5	**181.6**	180.6	164.9	163.9	165.9	164.7	169.2	164.8	**33.3**	166.7	137.3	140.9
Normalized	95.43%	95.15%	99.39%	100%	99.45%	90.8%	90.25%	91.35%	90.69%	93.17%	90.75%	18.34%	91.8%	75.61%	77.59%
Standard Deviation	0.8%	1.6%	0.7%	0.4%	0.8%	0.4%	2.4%	1.2%	2.1%	1.3%	1.4%	0.3%	2.3%	17.6%	27.1%
Threaded I/O Tester - Read - 32MB - 4 (MB/s)	10583	7763		**13345**	12762	10089	9854	10489	10531	12416	10298	**3852**	10638		12891
Normalized	79.31%	58.17%		100%	95.63%	75.6%	73.84%	78.6%	78.91%	93.04%	77.17%	28.87%	79.71%		96.59%
Standard Deviation	4%	3.4%		6%	5.5%	0.4%	9.3%	5.6%	0.5%	5.1%	3.8%	0%	8.2%		2.7%
FS-Mark - 5.F.1.S.4.T (Files/s)	189.9	**192.0**	187.9	188.1	185.9	182.8	181.1	180.5	180.0	180.7	180.8	**59.5**	182.3		177.5
Normalized	98.91%	100%	97.86%	97.97%	96.82%	95.21%	94.32%	94.01%	93.75%	94.11%	94.17%	30.99%	94.95%		92.45%
Standard Deviation	0.4%	0.4%	0.4%	0.1%	0.1%	0.4%	0.9%	0.4%	0.4%	0.5%	0%	0.4%	0.1%		1%
FS-Mark - 1.F.1.S.N.S.F (Files/s)	1356	1347	2842	**2872**	2853	1326	1309	1379	1355	2375	1302	**1108**	1225		2409
Normalized	47.21%	46.9%	98.93%	100%	99.32%	46.15%	45.57%	48.01%	47.19%	82.69%	45.34%	38.57%	42.66%		83.85%
Standard Deviation	0.6%	0.3%	0.1%	0.1%	0.4%	0.3%	0.2%	0.3%	0.2%	0.9%	0.3%	5.2%	0.6%		0.2%
Threaded I/O Tester - Read - 64MB - 4 (MB/s)	11732	11914		**15193**	14727	10848	10527	11358	11322	13926	11278	**6150**	12139		14552
Normalized	77.22%	78.42%		100%	96.94%	71.4%	69.29%	74.76%	74.53%	91.66%	74.23%	40.48%	79.9%		95.78%
Standard Deviation	1.2%	2.4%		0.3%	1.7%	2.5%	0.7%	2.4%	0.7%	1.4%	0.9%	0.2%	2.4%		0.1%

performance-linx-software

RAMspeed SMP - Scale - Integer (MB/s)	17099	26159		15534	15515	16890	16971	16527	16734	17161	16937		12272	15692
Normalized	65.36%	100%		59.38%	59.31%	64.57%	64.88%	63.18%	63.97%	65.6%	64.74%		46.91%	59.99%
Standard Deviation	0%	1.1%		0.1%	0%	1%	1.7%	0.2%	0.1%	0%	0.1%		14.9%	0%
Compile Bench - Initial Create		280.18		272.61	279.26	198.76	199.71	229.52	226.49	189.97	227.82			132.40
Normalized		100%		97.3%	99.67%	70.94%	71.28%	81.92%	80.84%	67.8%	81.31%			47.26%
Standard Deviation		0.5%		0.7%	1.6%	2.4%	1%	0.9%	0.9%	1.1%	0.8%			1.1%
IOzone - 64Kb - 512MB - Write Performance (MB/s)	37.70	37.16		38.24	37.64	36.94	37.39 58333	36.99	37.00	37.57	36.98	2.52	37.09	6.01
Normalized	98.59%	97.18%		100%	98.43%	96.6%	97.79%	96.73%	96.76%	98.25%	96.71%	6.59%	96.99%	15.72%
Standard Deviation	0.5%	0.9%		0.6%	0.5%	0.5%	0.6%	0.1%	0.3%	0.8%	0.5%	0.2%	1.4%	10.4%
Threaded I/O Tester - Read - 128MB - 4	11947	12513		15886	15968	11682	11833	12378	11614	14550	12304	7997	12569	15593
Normalized	74.82%	78.36%		99.49%	100%	73.16%	74.11%	77.52%	72.73%	91.12%	77.06%	50.08%	78.72%	97.66%
Standard Deviation	3.2%	2.3%		0.3%	0.6%	2%	0.4%	1.7%	2.5%	0.3%	1.4%	12.8%	11.3%	0.5%
PHPBench - P.B.S	287127	409819		257848	261094	310323	313161	310265	314682	313981	313483		394708	277476
Normalized	70.06%	100%		62.92%	63.71%	75.72%	76.41%	75.71%	76.79%	76.61%	76.49%		96.31%	67.71%
Standard Deviation	0.9%	0%		1.6%	2.1%	2.3%	0.1%	2.5%	0%	0.3%	0.1%		0.1%	2.4%
CacheBench - R.M.W (MB/s)	29691	29796		19571	19567	19345	19349	19332	19327	19338	19337		29816	29821
Normalized	99.56%	99.92%		65.63%	65.61%	64.87%	64.89%	64.83%	64.81%	64.85%	64.84%		99.98%	100%
Standard Deviation	0%	0.1%		0%	0%	0%	0%	0%	0%	0%	0%		0%	0%
BlogBench - Read (Final Score)	1342672	1004609	1430148	1447393	1433208	1050190	1011768	1250686	1023746	1394764	1015945	1034999	9910 88	948735
Normalized	92.76%	69.41%	98.81%	100%	99.02%	72.56%	69.9%	86.41%	70.73%	96.36%	70.19%	71.51%	68.47%	65.55%
Standard Deviation	4.9%	2.5%	2%	3.1%	2.3%	2.8%	0.7%	2.6%	1.2%	2.5%	2.4%	3.3%	3.7%	2.3%
PostMark - D.T.P (TPS)	3024	3191		4411	4519	3099	3086	3191	3191	4261	3164		2988	3641
Normalized	66.92%	70.61%		97.61%	100%	68.58%	68.29%	70.61%	70.61%	94.29%	70.02%		66.12%	80.57%
Standard Deviation	1.4%	0.7%		1%	2.1%	1.4%	1.2%	1.5%	0.7%	1%			0.7%	1.7%

performance-linx-software

RAMspeed SMP - Triad - Integer (MB/s)	18159	20616	15988	15944	18351	18241	17383	17972	14190	18048	16562	16980
Normalized	88.08%	100%	77.55%	77.34%	89.01%	88.48%	84.32%	87.17%	68.83%	87.54%	80.33%	82.36%
Standard Deviation	0.1%	4.2%	0.3%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.6%	2.4%	0.5%
RAMspeed SMP - Average - Integer (MB/s)	20986	23647	18944	18850	21085	21057	20437	20752	19645	20845	16737	19387
Normalized	88.75%	100%	80.12%	79.72%	89.17%	89.05%	86.43%	87.76%	83.08%	88.15%	70.78%	81.99%
Standard Deviation	0%	1.4%	0.2%	0.1%	0.3%	0%	0.1%	0.1%	0.2%	0.2%	1.3%	0.2%
Threaded I/O Tester - Read - 256MB - 4	12625	12863	15759	16268	11664	12577	12630	12470	14853	12678	12523	15931
Normalized	77.61%	79.07%	96.87%	100%	71.7%	77.31%	77.64%	76.65%	91.3%	77.93%	76.98%	97.93%
Standard Deviation	4.4%	9.1%	8.4%	2.9%	2.2%	2.5%	2.4%	2.1%	0.7%	0.9%	16.6%	0.8%
Timed MAFFT Alignment - M.S.A - LSU RNA (sec)	18.833	20.418	16.095	16.166	18.915	19.060	18.786	18.934	15.817	19.031	19.191	16.001
Normalized	83.99%	77.47%	98.27%	97.84%	83.62%	82.99%	84.2%	83.54%	100%	83.11%	82.42%	98.85%
Standard Deviation	0.7%	1.5%	0.4%	1.3%	0.8%	0.2%	0.6%	1.4%	1.9%	1.3%	1.4%	1.6%
Loopback TCP Network Performance - T.T.T.1.V.L (sec)		12.456			12.821	13.203	14.227	12.874	11.055	12.838		
Normalized		88.75%			86.23%	83.73%	77.7%	85.87%	100%	86.11%		
Standard Deviation		0.7%			0.6%	0.2%	0.1%	1%	0.8%	1.4%		
RAMspeed SMP - Copy - Integer (MB/s)	23916	23343	21155	21098	23934	23872	23682	23729	24397	23816	19146	21390
Normalized	98.03%	95.68%	86.71%	86.47%	98.1%	97.85%	97.07%	97.26%	100%	97.62%	78.48%	87.67%
Standard Deviation	0.1%	0.2%	0.1%	0%	0.4%	0.2%	0%	0%	0.1%	0.1%	0.1%	0.1%

performance-linx-software

RAMspeed SMP - Add - Integer (MB/s)	24852	24970		23095	22999	**25229**	24945	24147	24577	22834	24736		**20591**		23341
Normalized	98.51%	98.97%		91.54%	91.16%	100%	98.88%	95.71%	97.41%	90.51%	98.04%		81.62%		92.52%
Standard Deviation	0.1%	1.2%		0.2%	0.1%	0.1%	0%	0.2%	0.1%	0.4%	0.3%		0.1%		0.2%
7-Zip Compression - C.S.T (MIPS)	114065	**103505**		121286	**122246**	106486	105180	112374	104058	119988	103647		116875		115658
Normalized	93.31%	84.67%		99.21%	100%	87.11%	86.04%	91.92%	85.12%	98.15%	84.79%		95.61%		94.61%
Standard Deviation	0.6%	2.2%		0.3%	2.5%	1.3%	0.8%	2.3%	0.7%	1.7%	3.2%		3.4%		2.3%
Flexible IO Tester - Rand Read - LINUX AIO - Yes - No - 4KB (IOPS)	170	170	195	195	191	171	173	171	171	194	172	179	**168**	**197**	192
Normalized	86.29%	86.29%	98.98%	98.98%	96.95%	86.8%	87.82%	86.8%	86.8%	98.48%	87.31%	90.86%	85.28%	100%	97.46%
Standard Deviation	1%	0.7%	1.1%	1.1%	1.7%		1.7%	1.7%	0.7%	2.2%		1.4%	2.4%	1%	1.1%
Flexible IO Tester - Rand Read - LINUX AIO - Yes - No - 4KB (MB/s)	0.695	0.697	0.796	0.793	0.780	0.699	0.706	0.700	0.697	0.791	0.702	0.73	**0.687**	**0.802**	0.783
Normalized	86.66%	86.91%	99.25%	98.88%	97.26%	87.16%	88.03%	87.28%	86.91%	98.63%	87.53%	91.02%	85.66%	100%	97.63%
Standard Deviation	0.8%	0.7%	1.2%	1%	1.7%	0.4%	1.4%	1.7%	0.9%	2.2%	0.6%	1.4%	2.4%	0.9%	1.1%
Flexible IO Tester - Rand Write - Linux AIOO - Yes - No - 4KB (MB/s)	175	168	179	179	178	172	170	**180**	171	174	171	**155**	166	175	171
Normalized	97.22%	93.33%	99.44%	99.44%	98.89%	95.56%	94.44%	100%	95%	96.67%	95%	86.11%	92.22%	97.22%	95%
Standard Deviation	0.9%	1.5%	1.8%	0.6%	0.3%		0.7%	0.6%	0.7%		0.3%	4.3%	0.3%	0.7%	1%

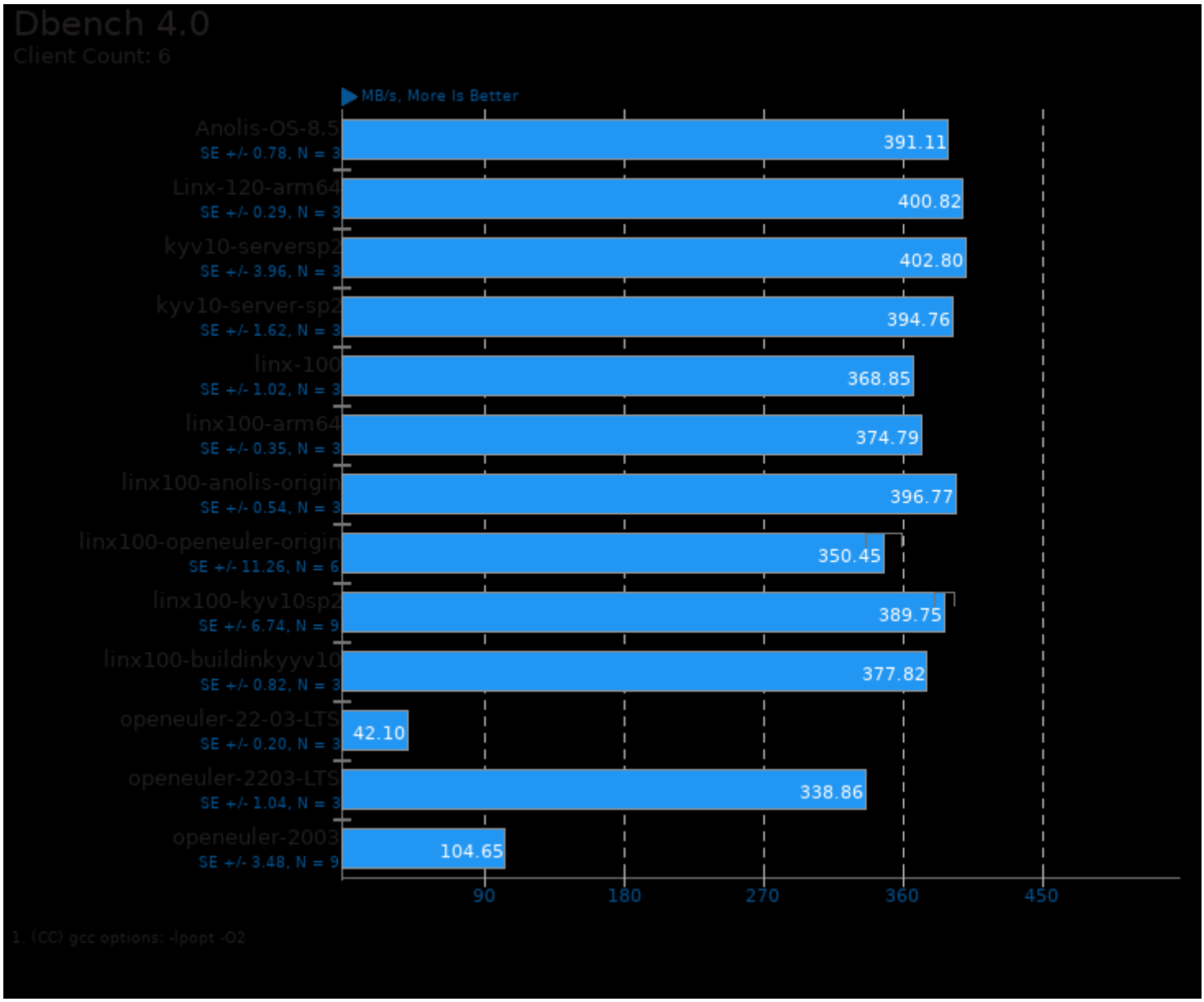
performance-linx-software

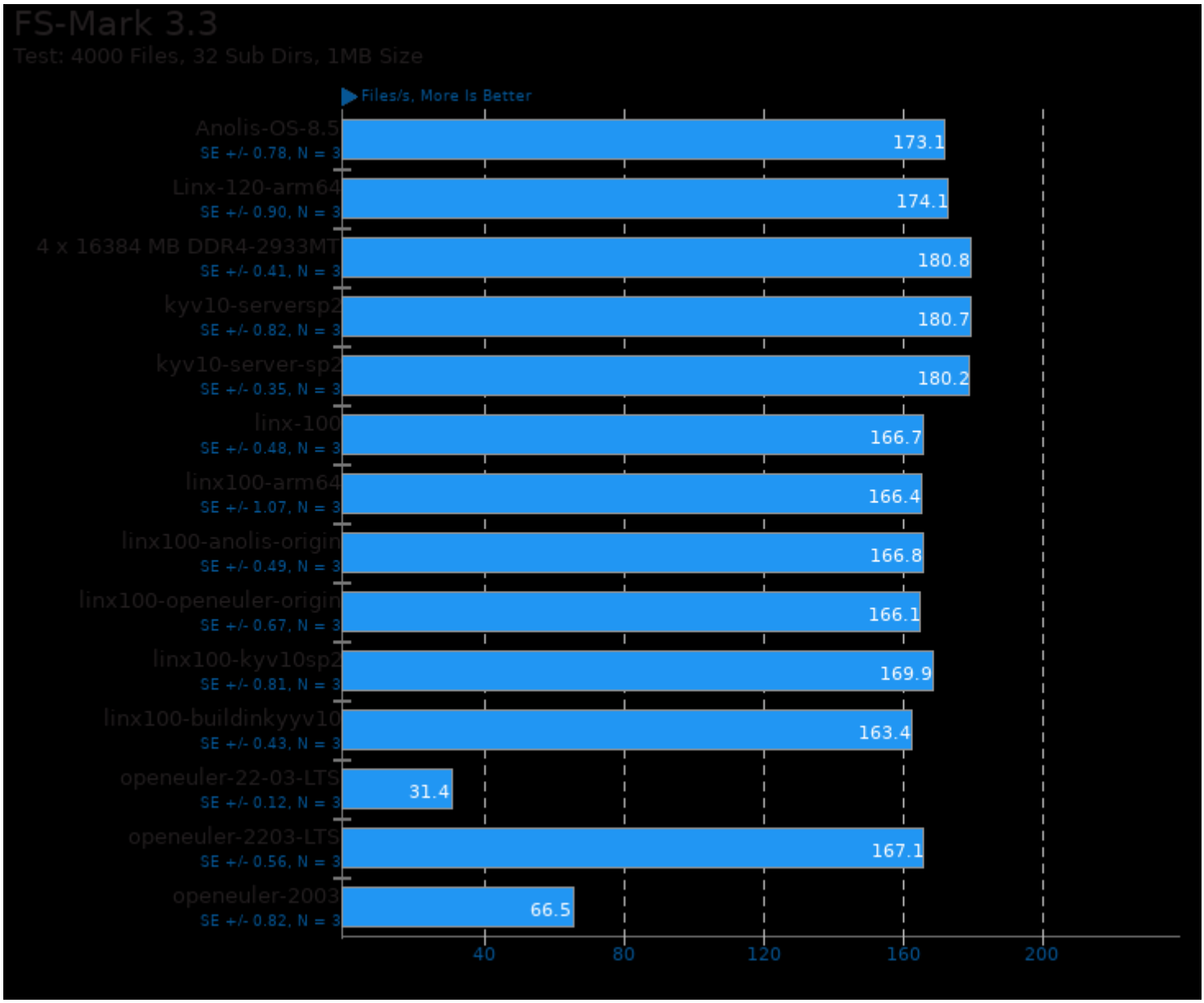
Flexible IO Tester - Rand Write - Linux AIOO - Yes - No - 4KB (IOPS)	44733	43100	45667	45800	45633	44033	43600	**46067**	43767	44533	43600	**39780**	42567	44933	43767
Normalized	97.1%	93.56%	99.13%	99.42%	99.06%	95.58%	94.64%	100%	95.01%	96.67%	94.64%	86.35%	92.4%	97.54%	95.01%
Standard Deviation	0.8%	1.4%	1.9%	0.4%	0.3%	0.3%	0.6%	0.5%	0.7%	0.3%	0.4%	4.3%	0.5%	0.5%	0.9%
Stream - Copy (MB/s)	66099	**65960**		71425	**71600**	66673	66180	66634	66011	67120	66446		66568		68773
Normalized	92.32%	92.12%		99.76%	100%	93.12%	92.43%	93.06%	92.19%	93.74%	92.8%		92.97%		96.05%
Standard Deviation	0.9%	0.9%		0.4%	0.6%	0.8%	0.7%	1.9%	2%	0.3%	1%		1%		0.1%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 4KB (IOPS)	44567	44525	46967	**47167**	46900	45400	44233	46833	45267	46600	44725	**43560**	43800	46033	45467
Normalized	94.49%	94.4%	99.58%	100%	99.43%	96.25%	93.78%	99.29%	95.97%	98.8%	94.82%	92.35%	92.86%	97.6%	96.4%
Standard Deviation	1.5%	2.4%	0.5%	0.7%	1.1%	0.2%	0.7%	0.5%	0.3%		2.2%	7.1%	1.2%	0.5%	1.5%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 4KB (MB/s)	174	174	183	**184**	183	178	173	183	177	182	175	**170**	171	180	178
Normalized	94.57%	94.57%	99.46%	100%	99.46%	96.74%	94.02%	99.46%	96.2%	98.91%	95.11%	92.39%	92.93%	97.83%	96.74%
Standard Deviation	1.4%	2.4%	0.6%	0.5%	1.1%	0.3%					2.3%	7%	1.2%		1.3%
OpenSSL - SHA256 (byte/s)	38782684253	**36701409527**		38769097837	38719881770	39201978943	39193570287	**39202675580**	39198541217	39039089483	39193175250		38277415687		38725891260
Normalized	98.93%	93.62%		98.89%	98.77%	100%	99.98%	100%	99.99%	99.58%	99.98%		97.64%		98.78%
Standard Deviation	0.1%	0%		0.1%	0%	0%	0%	0%	0%	0%	0%		0%		0.1%
Flexible IO Tester - Seq Read - Linux AIOO - Yes - No - 4KB (MB/s)	189	**192**	191	191	190	185	183	185	**180**	183	181	181	183	183	181
Normalized	98.44%	100%	99.48%	99.48%	98.96%	96.35%	95.31%	96.35%	93.75%	95.31%	94.27%	94.27%	95.31%	95.31%	94.27%
Standard Deviation	0.3%	0.8%	0.6%		1.1%	0.3%	0.3%		1.6%	1.7%	1.2%	0.3%	0%		0.8%

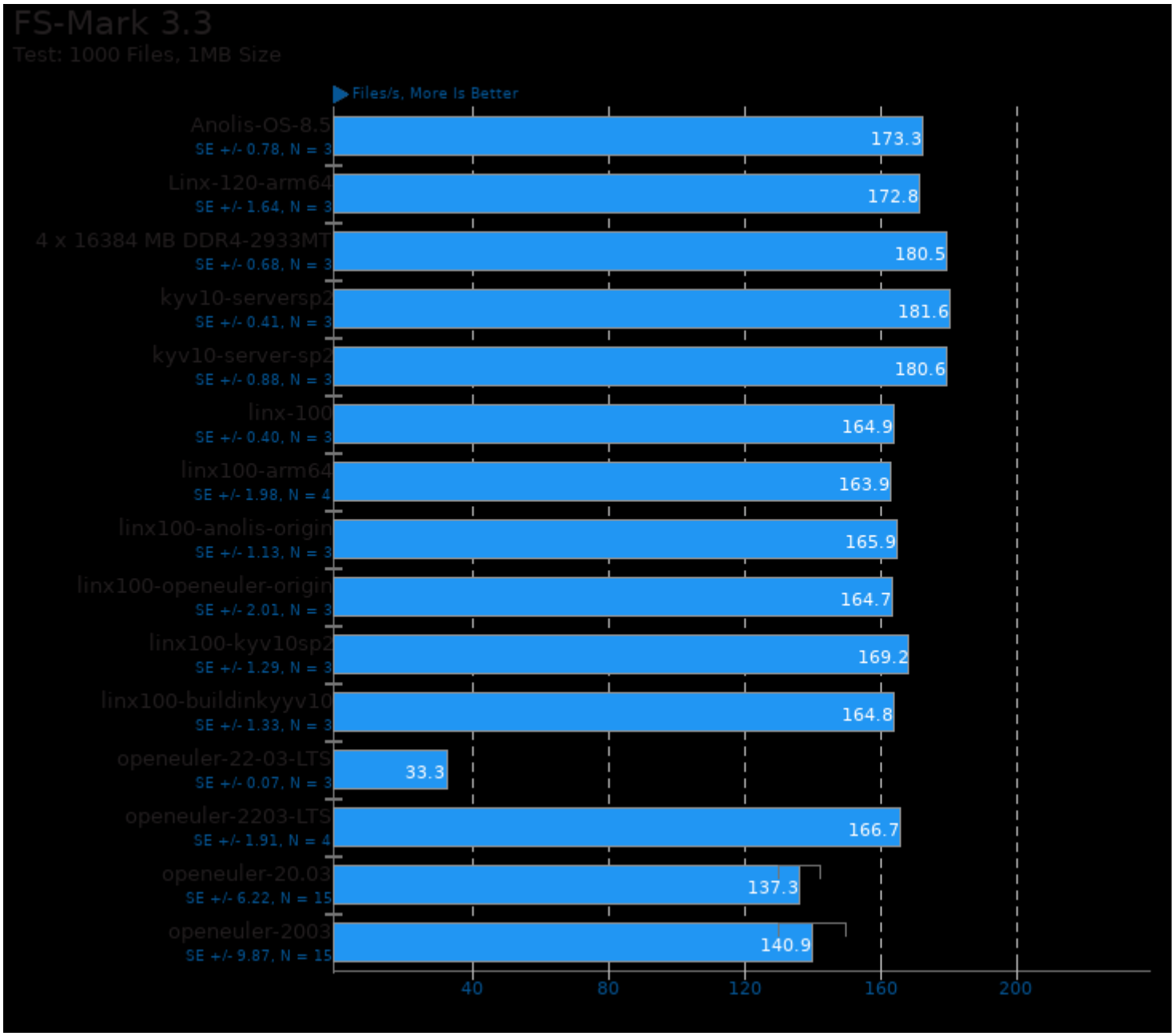
performance-linx-software

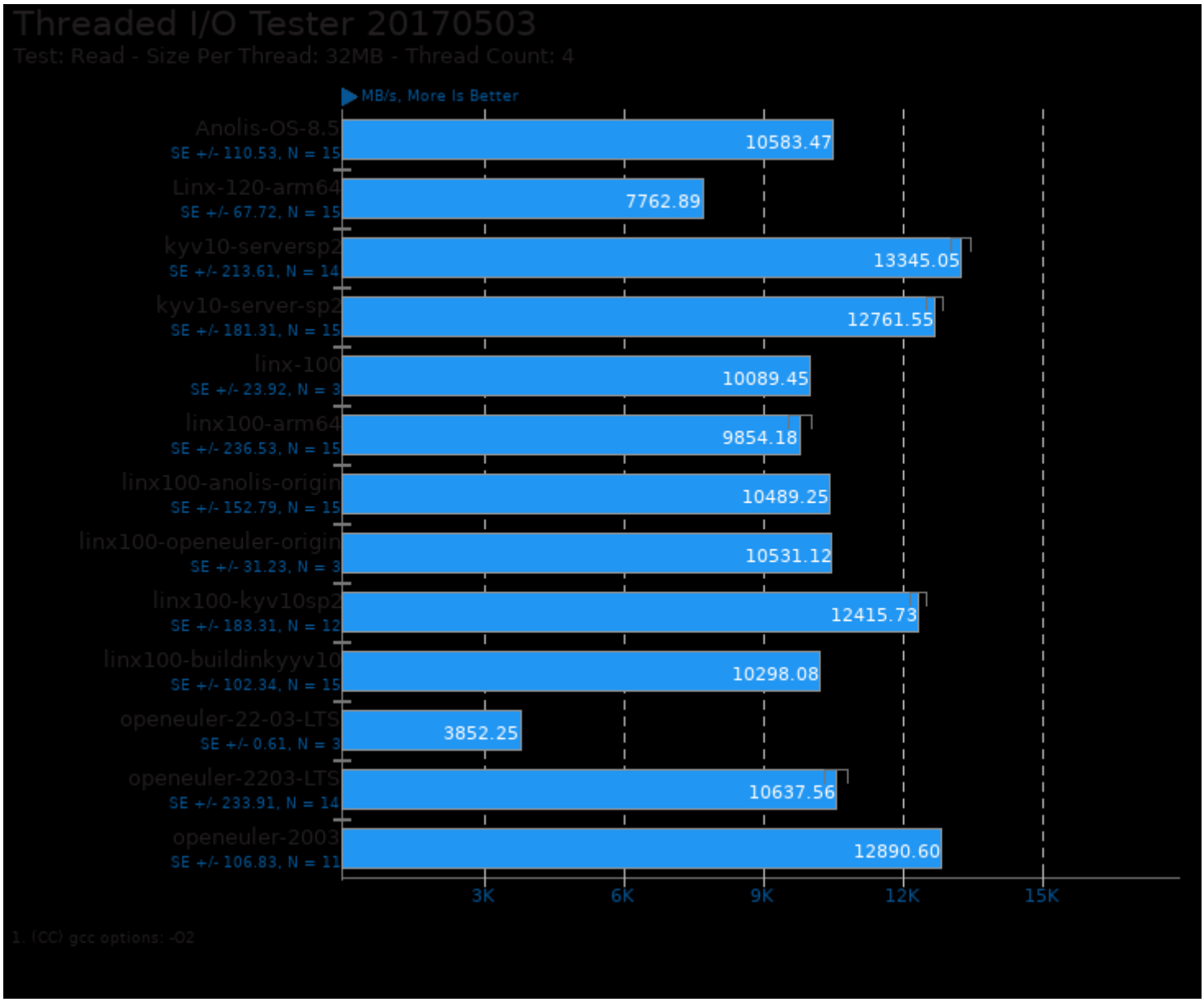
Flexible IO Tester - Seq Read - Linux AIOO - Yes - No - 4KB (IOPS)	48267	49133	48900	48867	48733	47433	46867	47333	46233	46867	46267	46167	46800	47000	46467
Normalized	98.24%	100%	99.53%	99.46%	99.19%	96.54%	95.39%	96.34%	94.1%	95.39%	94.17%	93.96%	95.25%	95.66%	94.57%
Standard Deviation	0.3%	0.8%	0.5%	0.1%	1.1%	0.1%	0.3%	0.1%	1.6%	1.6%	1.2%	0.3%	0.2%		0.5%
CacheBench - Write	18735	18972		19244	19246	18723	18704	18759	18753	18757	18758		19233		19212
Normalized	97.34%	98.58%		99.99%	100%	97.29%	97.19%	97.47%	97.44%	97.46%	97.47%		99.94%		99.82%
Standard Deviation	0%	0.3%		0%	0%	0.1%	0%	0.1%	0%	0%	0%		0%		0%
C-Ray - Total Time - 4.1.R.P.P (sec)	27.43 9	27.17 5		27.48 9	27.44 0	27.13 2	27.12 7	27.14 9	27.04 0	27.19 7	27.25 2		27.16 3		27.71 5
Normalized	98.55%	99.5%		98.37%	98.54%	99.66%	99.68%	99.6%	100%	99.42%	99.22%		99.55%		97.56%
Standard Deviation	0.3%	0.2%		0.1%	0.2%	0.4%	0.3%	0.2%	0.2%	0.3%	0.5%		0.2%		0%
OpenSSL - RSA4096 (sign/s)	7693	7656		7688	7690	7554	7608	7694	7633	7699	7566		7743		7669
Normalized	99.36%	98.88%		99.29%	99.32%	97.57%	98.26%	99.38%	98.58%	99.43%	97.72%		100%		99.05%
Standard Deviation	0%	0.1%		0%	0%	0.8%	0.3%	0%	0.2%	0%	0.6%		0%		0.4%
OpenSSL - RSA4096 (verify/s)	55093 0	56196 9		55102 2	55050 1	55135 1	55129 9	55103 1	55068 6	55180 5	55080 0		56286 7		55035 3
Normalized	97.88%	99.84%		97.9%	97.8%	97.95%	97.94%	97.9%	97.84%	98.03%	97.86%		100%		97.78%
Standard Deviation	0.1%	0.1%		0%	0.1%	0%	0%	0.1%	0.1%	0%	0.1%		0.1%		0.1%
Stream - Add (MB/s)	70991	70840		71599	71493	71143	70906	70954	70315	71525	71161		71243		71689
Normalized	99.03%	98.82%		99.88%	99.73%	99.24%	98.91%	98.98%	98.08%	99.77%	99.26%		99.38%		100%
Standard Deviation	0.7%	0.8%		0.3%	0.4%	0.6%	0.9%	1.3%	1.7%	0.5%	0.5%		0.6%		0.1%
Stream - Scale (MB/s)	70372	70506		70487	70506	70757	70218	70810	69609	70450	70798		70690		70565
Normalized	99.38%	99.57%		99.54%	99.57%	99.92%	99.16%	100%	98.3%	99.49%	99.98%		99.83%		99.65%
Standard Deviation	0.4%	0.5%		0.1%	0.5%	0.4%	0.8%	0.5%	1.6%	0.7%	0.5%		0.8%		0.1%
Stream - Triad (MB/s)	70936	71077		71621	71343	71442	70922	70997	70868	71314	71335		71307		71599
Normalized	99.04%	99.24%		100%	99.61%	99.75%	99.02%	99.13%	98.95%	99.57%	99.6%		99.56%		99.97%
Standard Deviation	0.1%	0.7%		0.1%	0.6%	0.5%	0.7%	1.7%	1.1%	0.3%	0.3%		0.7%		0.1%
CacheBench - Read	4957	4957		4958	4958	4957	4957	4957	4957	4958	4957		4957		4957
Normalized	99.98%	99.98%		100%	100%	99.98%	99.98%	99.98%	99.97%	100%	99.97%		99.98%		99.97%

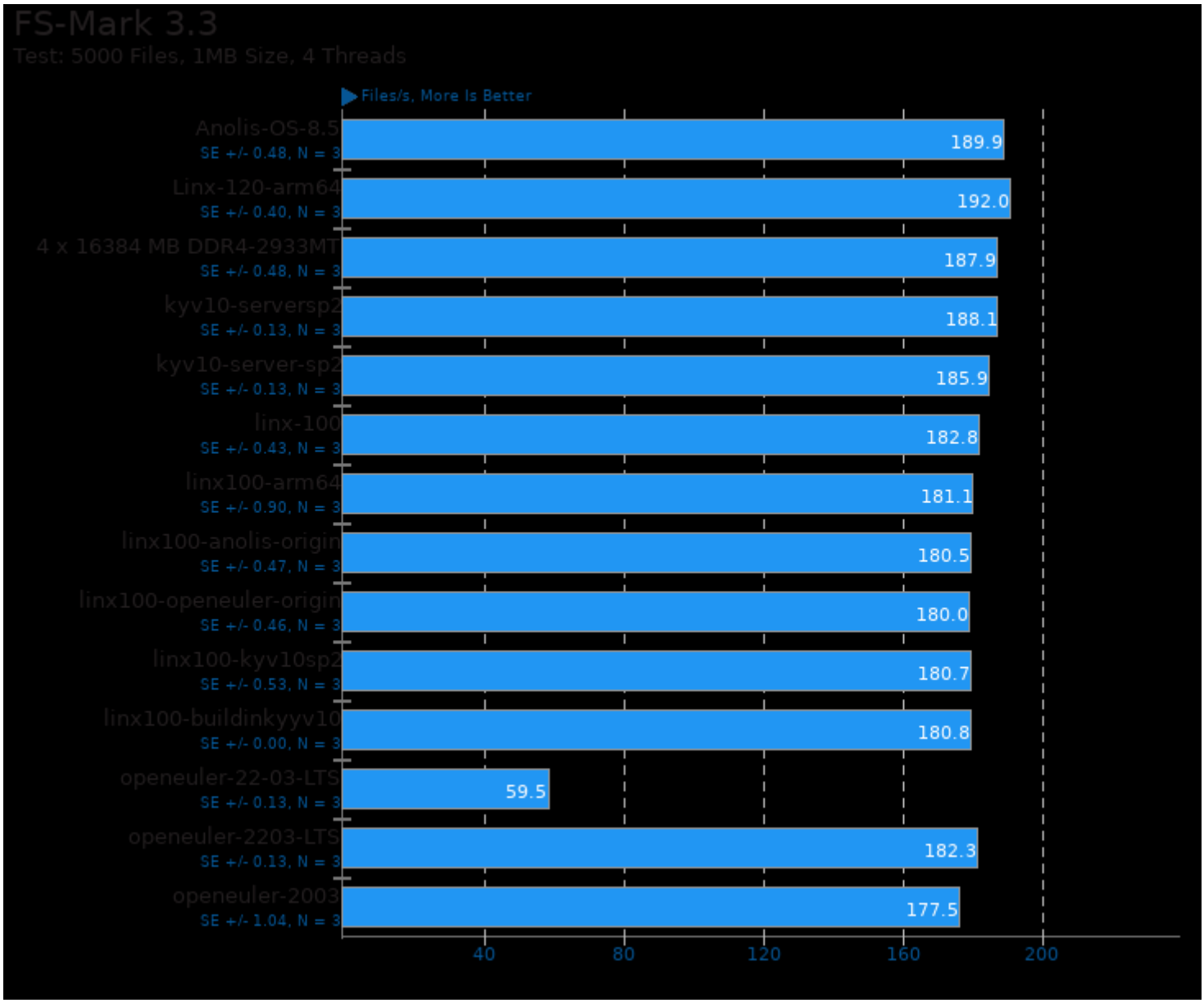
Standard Deviation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

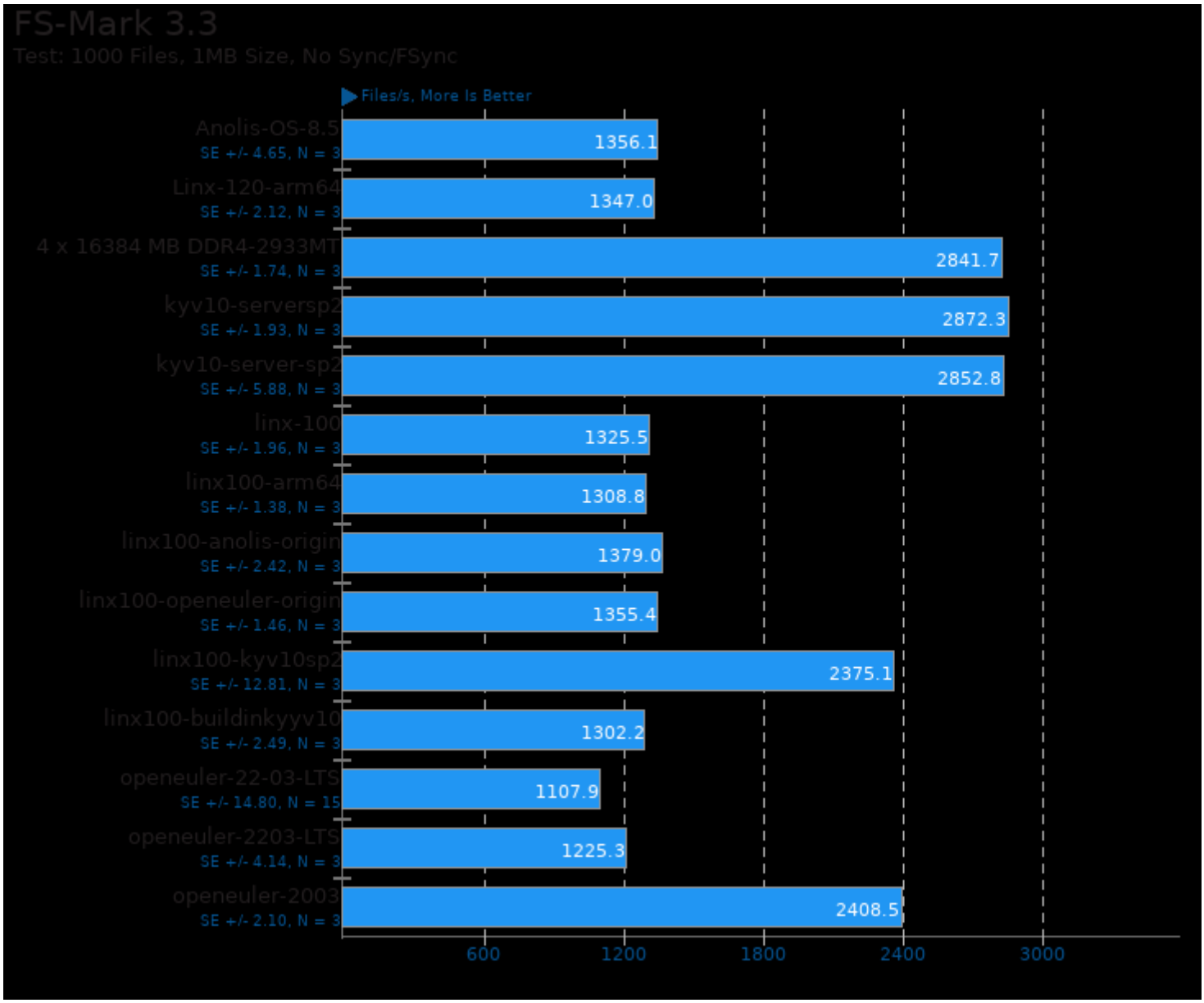

Dbench 4.0
Client Count: 6
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 0.78, N = 3
391.11
Linx-120-arm64
SE +/- 0.29, N = 3
400.82
kyv10-serversp2
SE +/- 3.96, N = 3
402.80
kyv10-server-sp2
SE +/- 1.62, N = 3
394.76
linx-100
SE +/- 1.02, N = 3
368.85
linx100-arm64
SE +/- 0.35, N = 3
374.79
linx100-anolis-origin
SE +/- 0.54, N = 3
396.77
linx100-openeuler-origin
SE +/- 11.26, N = 6
350.45
linx100-kyv10sp2
SE +/- 6.74, N = 9
389.75
linx100-buildinkyyv10
SE +/- 0.82, N = 3
377.82
openeuler-22-03-LTS
SE +/- 0.20, N = 3
42.10
openeuler-2203-LTS
SE +/- 1.04, N = 3
338.86
openeuler-2003
SE +/- 3.48, N = 9
104.65
90
180
270
360
450
1. (CC) gcc options: -lpopt -O2

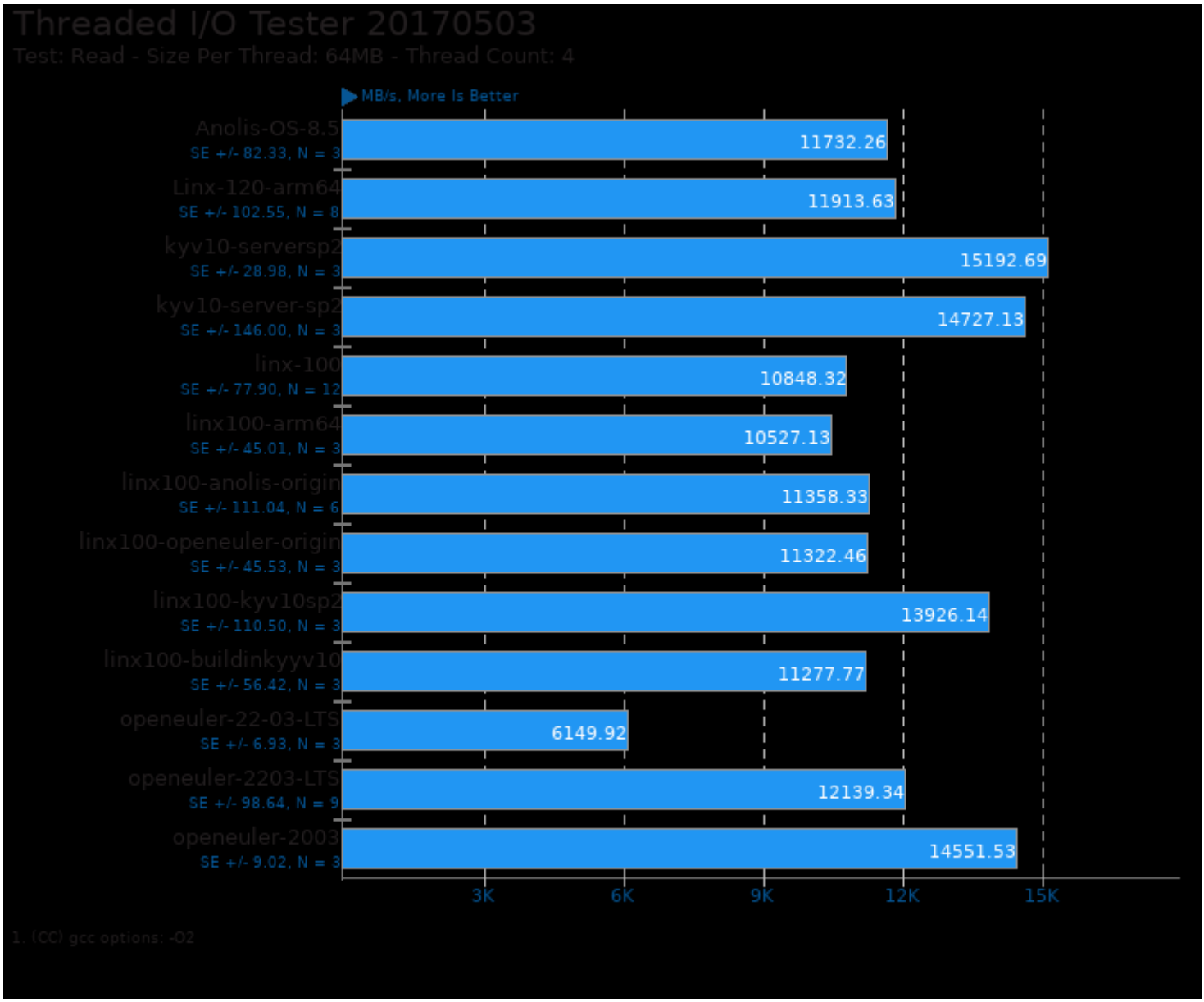

FS-Mark 3.3
Test: 4000 Files, 32 Sub Dirs, 1MB Size
Files/s, More Is Better
Anolis-OS-8.5
SE +/- 0.78, N = 3
173.1
Linx-120-arm64
SE +/- 0.90, N = 3
174.1
4 x 16384 MB DDR4-2933MT
SE +/- 0.41, N = 3
180.8
kyv10-serversp2
SE +/- 0.82, N = 3
180.7
kyv10-server-sp2
SE +/- 0.35, N = 3
180.2
linx-100
SE +/- 0.48, N = 3
166.7
linx100-arm64
SE +/- 1.07, N = 3
166.4
linx100-anolis-origin
SE +/- 0.49, N = 3
166.8
linx100-openeuler-origin
SE +/- 0.67, N = 3
166.1
linx100-kyv10sp2
SE +/- 0.81, N = 3
169.9
linx100-buildinkyyv10
SE +/- 0.43, N = 3
163.4
openeuler-22-03-LTS
SE +/- 0.12, N = 3
31.4
openeuler-2203-LTS
SE +/- 0.56, N = 3
167.1
openeuler-2003
SE +/- 0.82, N = 3
66.5
40
80
120
160
200

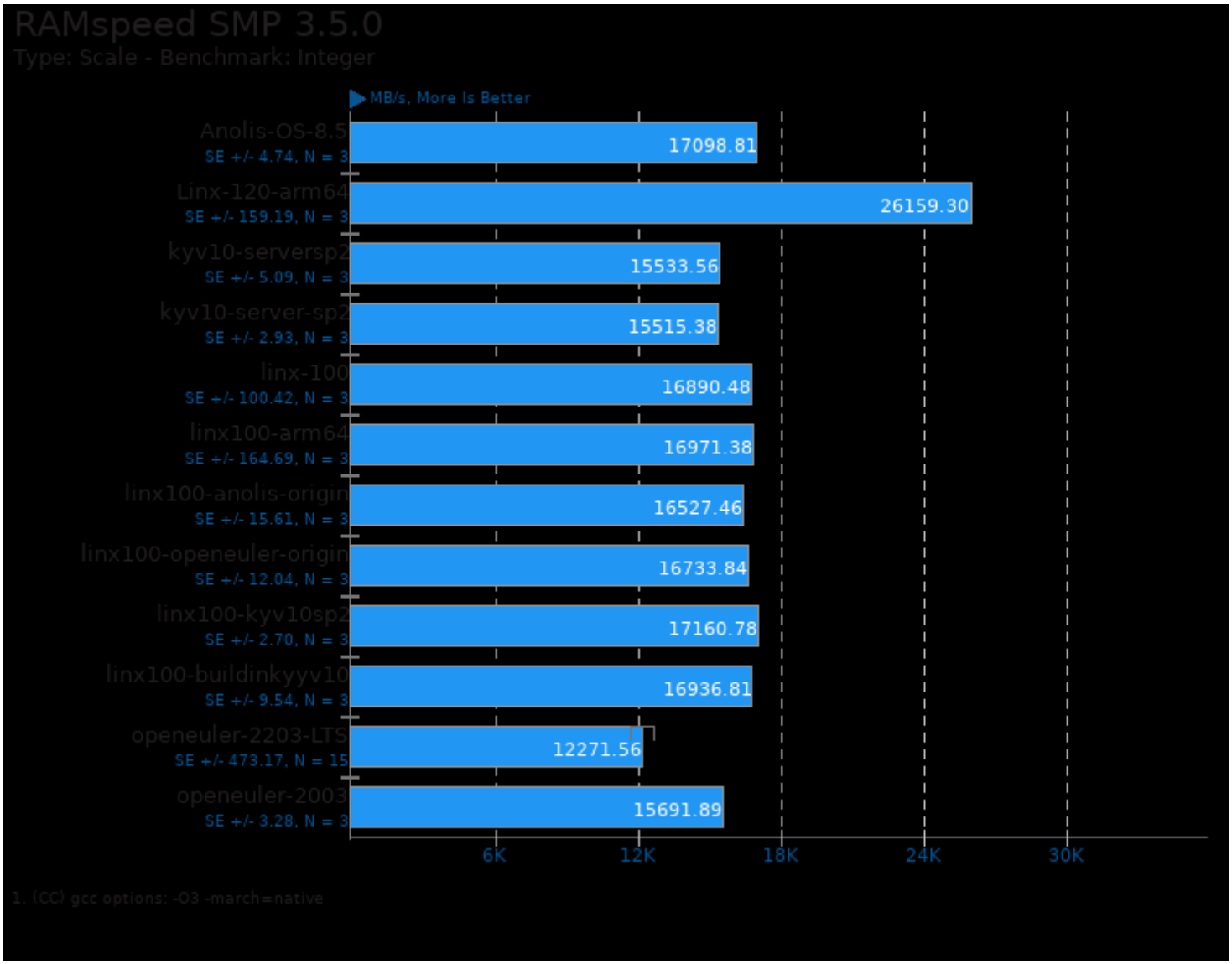

FS-Mark 3.3
Test: 1000 Files, 1MB Size
Files/s, More Is Better
Anolis-OS-8.5
SE +/- 0.78, N = 3
173.3
Linx-120-arm64
SE +/- 1.64, N = 3
172.8
4 x 16384 MB DDR4-2933MT
SE +/- 0.68, N = 3
180.5
kyv10-serversp2
SE +/- 0.41, N = 3
181.6
kyv10-server-sp2
SE +/- 0.88, N = 3
180.6
linx-100
SE +/- 0.40, N = 3
164.9
linx100-arm64
SE +/- 1.98, N = 4
163.9
linx100-anolis-origin
SE +/- 1.13, N = 3
165.9
linx100-openeuler-origin
SE +/- 2.01, N = 3
164.7
linx100-kyv10sp2
SE +/- 1.29, N = 3
169.2
linx100-buildinkyyv10
SE +/- 1.33, N = 3
164.8
openeuler-22-03-LTS
SE +/- 0.07, N = 3
33.3
openeuler-2203-LTS
SE +/- 1.91, N = 4
166.7
openeuler-20.03
SE +/- 6.22, N = 15
137.3
openeuler-2003
SE +/- 9.87, N = 15
140.9
40
80
120
160
200

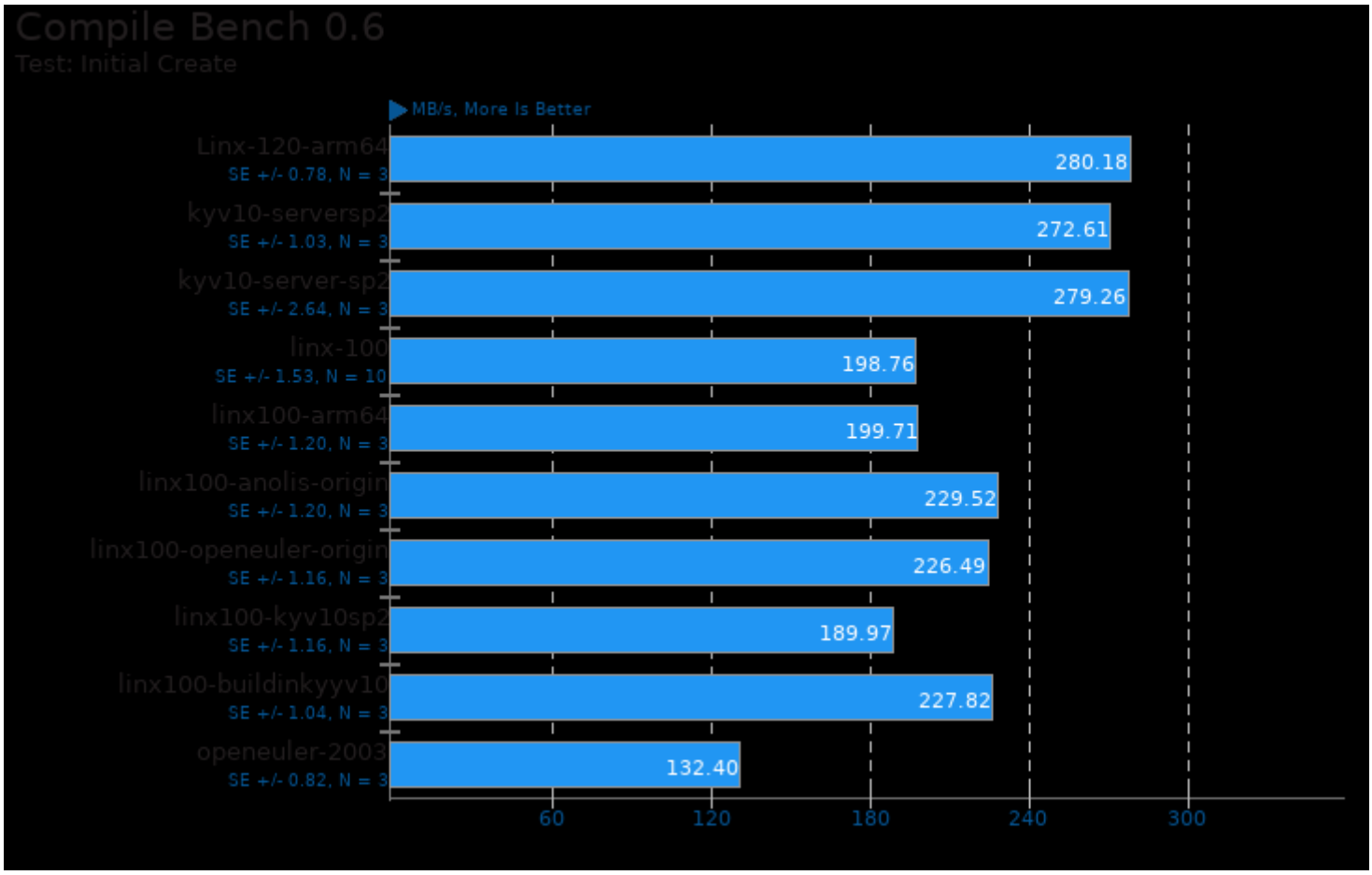

Threaded I/O Tester 20170503
Test: Read - Size Per Thread: 32MB - Thread Count: 4
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 110.53, N = 15
10583.47
Linx-120-arm64
SE +/- 67.72, N = 15
7762.89
kyv10-serversp2
SE +/- 213.61, N = 14
13345.05
kyv10-server-sp2
SE +/- 181.31, N = 15
12761.55
linx-100
SE +/- 23.92, N = 3
10089.45
linx100-arm64
SE +/- 236.53, N = 15
9854.18
linx100-anolis-origin
SE +/- 152.79, N = 15
10489.25
linx100-openeuler-origin
SE +/- 31.23, N = 3
10531.12
linx100-kyv10sp2
SE +/- 183.31, N = 12
12415.73
linx100-buildinkyyv10
SE +/- 102.34, N = 15
10298.08
openeuler-22-03-LTS
SE +/- 0.61, N = 3
3852.25
openeuler-2203-LTS
SE +/- 233.91, N = 14
10637.56
openeuler-2003
SE +/- 106.83, N = 11
12890.60
3K
6K
9K
12K
15K
1. (CC) gcc options: -O2

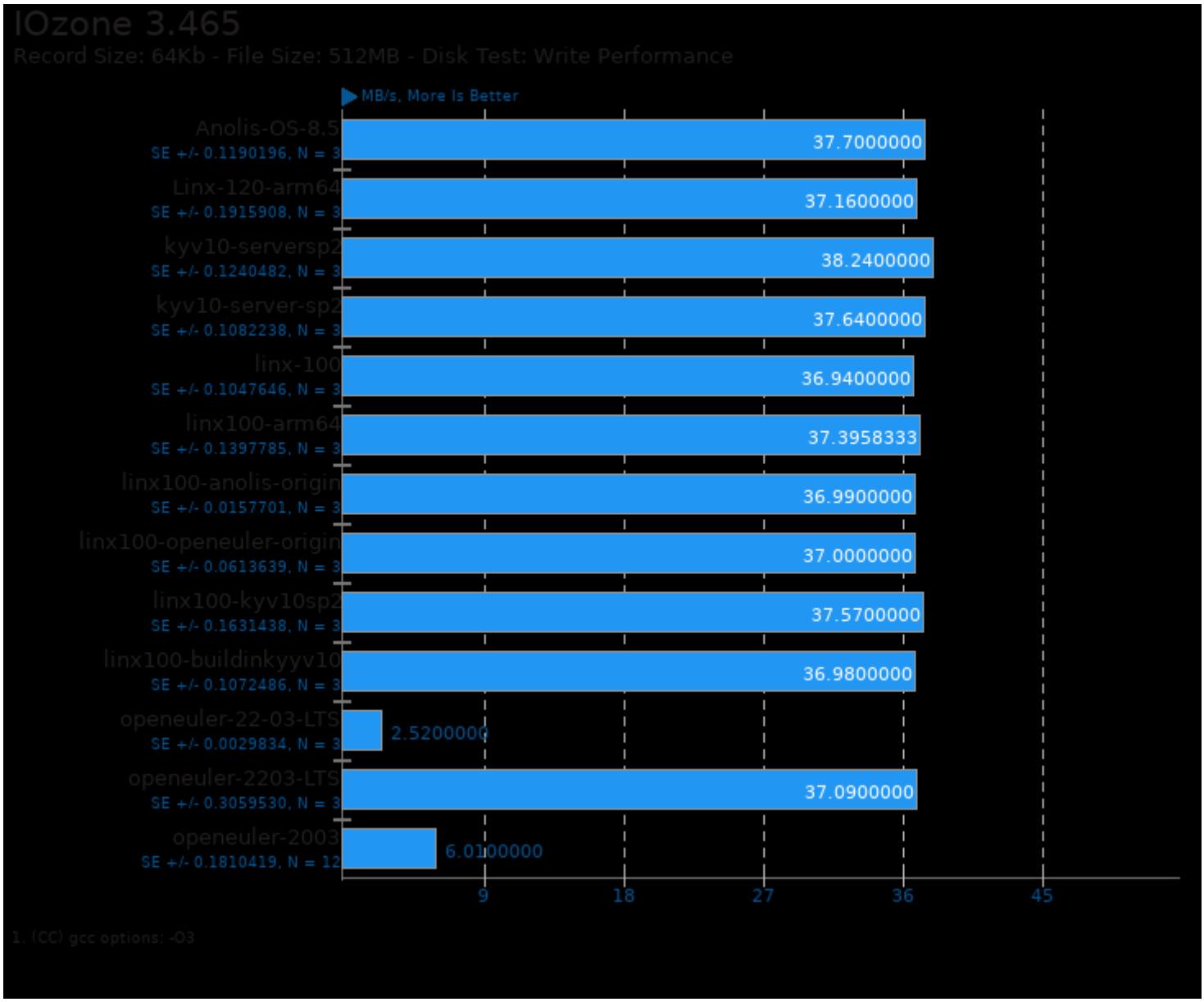

FS-Mark 3.3
Test: 5000 Files, 1MB Size, 4 Threads
Files/s, More Is Better
Anolis-OS-8.5
SE +/- 0.48, N = 3
189.9
Linx-120-arm64
SE +/- 0.40, N = 3
192.0
4 x 16384 MB DDR4-2933MT
SE +/- 0.48, N = 3
187.9
kyv10-serversp2
SE +/- 0.13, N = 3
188.1
kyv10-server-sp2
SE +/- 0.13, N = 3
185.9
linx-100
SE +/- 0.43, N = 3
182.8
linx100-arm64
SE +/- 0.90, N = 3
181.1
linx100-anolis-origin
SE +/- 0.47, N = 3
180.5
linx100-openeuler-origin
SE +/- 0.46, N = 3
180.0
linx100-kyv10sp2
SE +/- 0.53, N = 3
180.7
linx100-buildinkyyv10
SE +/- 0.00, N = 3
180.8
openeuler-22-03-LTS
SE +/- 0.13, N = 3
59.5
openeuler-2203-LTS
SE +/- 0.13, N = 3
182.3
openeuler-2003
SE +/- 1.04, N = 3
177.5
40
80
120
160
200

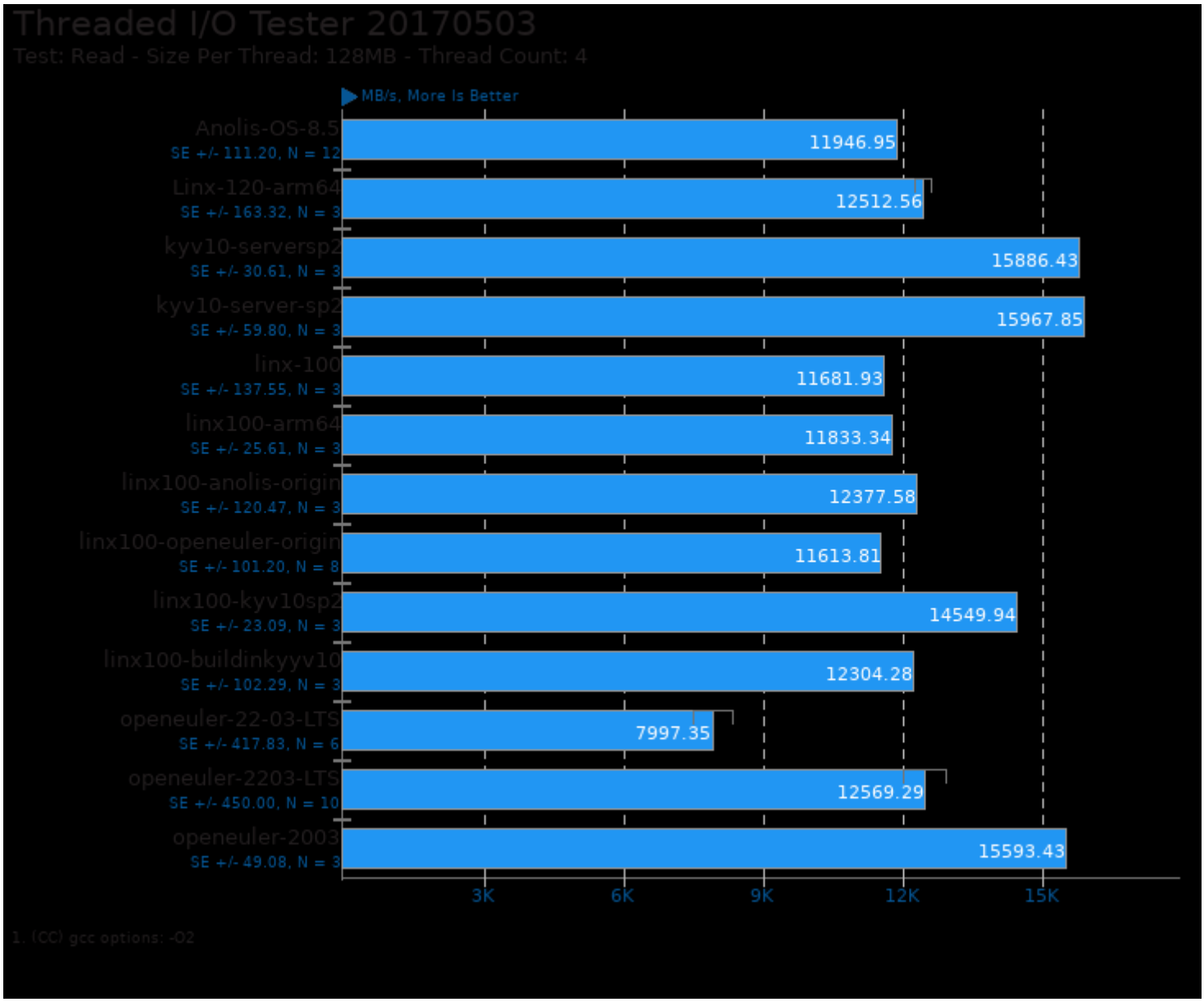

FS-Mark 3.3
Test: 1000 Files, 1MB Size, No Sync/FSync
Files/s, More Is Better
Anolis-OS-8.5
SE +/- 4.65, N = 3
1356.1
Linx-120-arm64
SE +/- 2.12, N = 3
1347.0
4 x 16384 MB DDR4-2933MT
SE +/- 1.74, N = 3
2841.7
kyv10-serversp2
SE +/- 1.93, N = 3
2872.3
kyv10-server-sp2
SE +/- 5.88, N = 3
2852.8
linx-100
SE +/- 1.96, N = 3
1325.5
linx100-arm64
SE +/- 1.38, N = 3
1308.8
linx100-anolis-origin
SE +/- 2.42, N = 3
1379.0
linx100-openeuler-origin
SE +/- 1.46, N = 3
1355.4
linx100-kyv10sp2
SE +/- 12.81, N = 3
2375.1
linx100-buildinkyyv10
SE +/- 2.49, N = 3
1302.2
openeuler-22-03-LTS
SE +/- 14.80, N = 15
1107.9
openeuler-2203-LTS
SE +/- 4.14, N = 3
1225.3
openeuler-2003
SE +/- 2.10, N = 3
2408.5
600
1200
1800
2400
3000

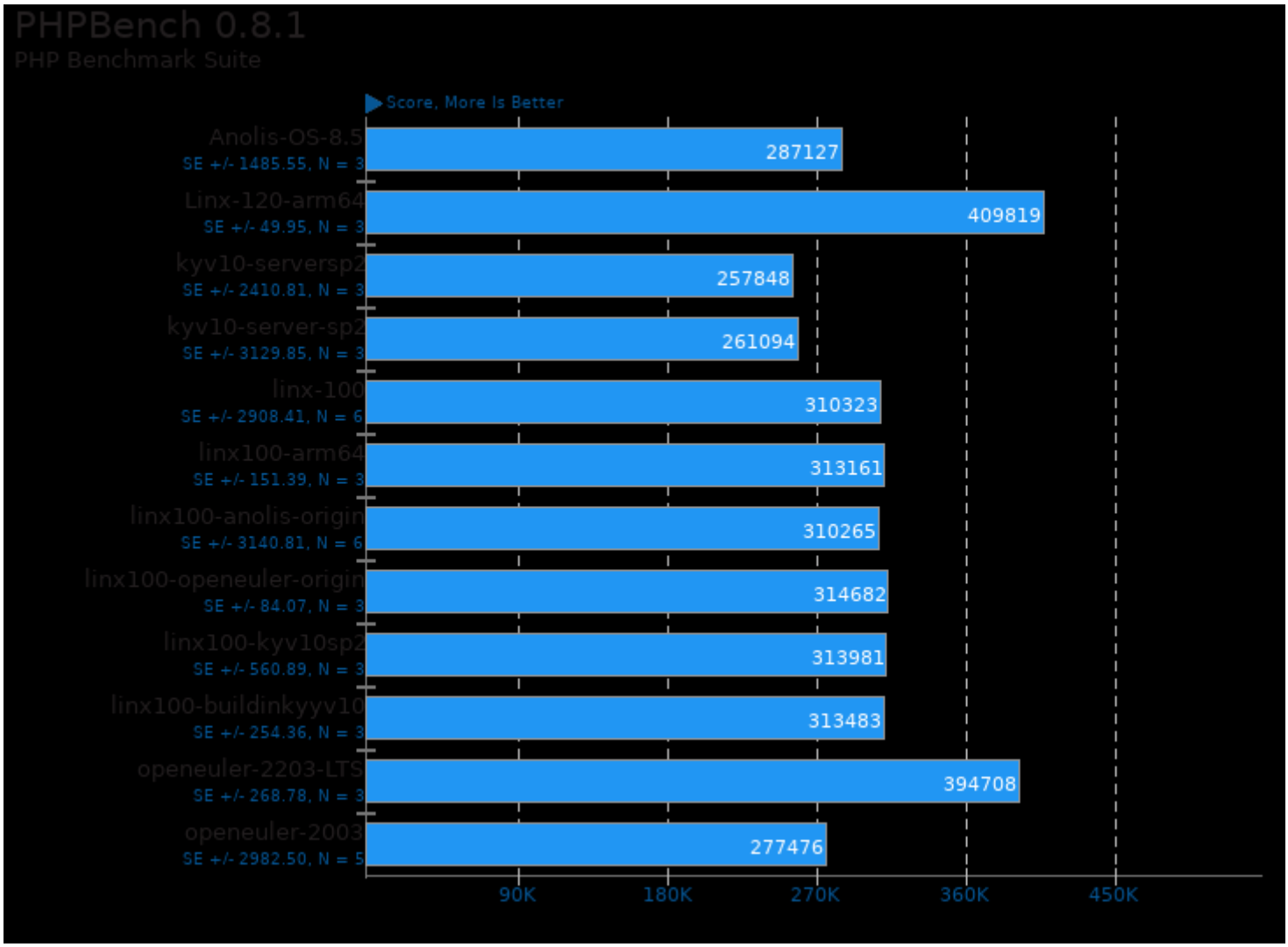

Threaded I/O Tester 20170503
Test: Read - Size Per Thread: 64MB - Thread Count: 4
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 82.33, N = 3
11732.26
Linx-120-arm64
SE +/- 102.55, N = 8
11913.63
kyv10-serversp2
SE +/- 28.98, N = 3
15192.69
kyv10-server-sp2
SE +/- 146.00, N = 3
14727.13
linx-100
SE +/- 77.90, N = 12
10848.32
linx100-arm64
SE +/- 45.01, N = 3
10527.13
linx100-anolis-origin
SE +/- 111.04, N = 6
11358.33
linx100-openeuler-origin
SE +/- 45.53, N = 3
11322.46
linx100-kyv10sp2
SE +/- 110.50, N = 3
13926.14
linx100-buildinkyyv10
SE +/- 56.42, N = 3
11277.77
openeuler-22-03-LTS
SE +/- 6.93, N = 3
6149.92
openeuler-2203-LTS
SE +/- 98.64, N = 9
12139.34
openeuler-2003
SE +/- 9.02, N = 3
14551.53
3K
6K
9K
12K
15K
1. (CC) gcc options: -O2

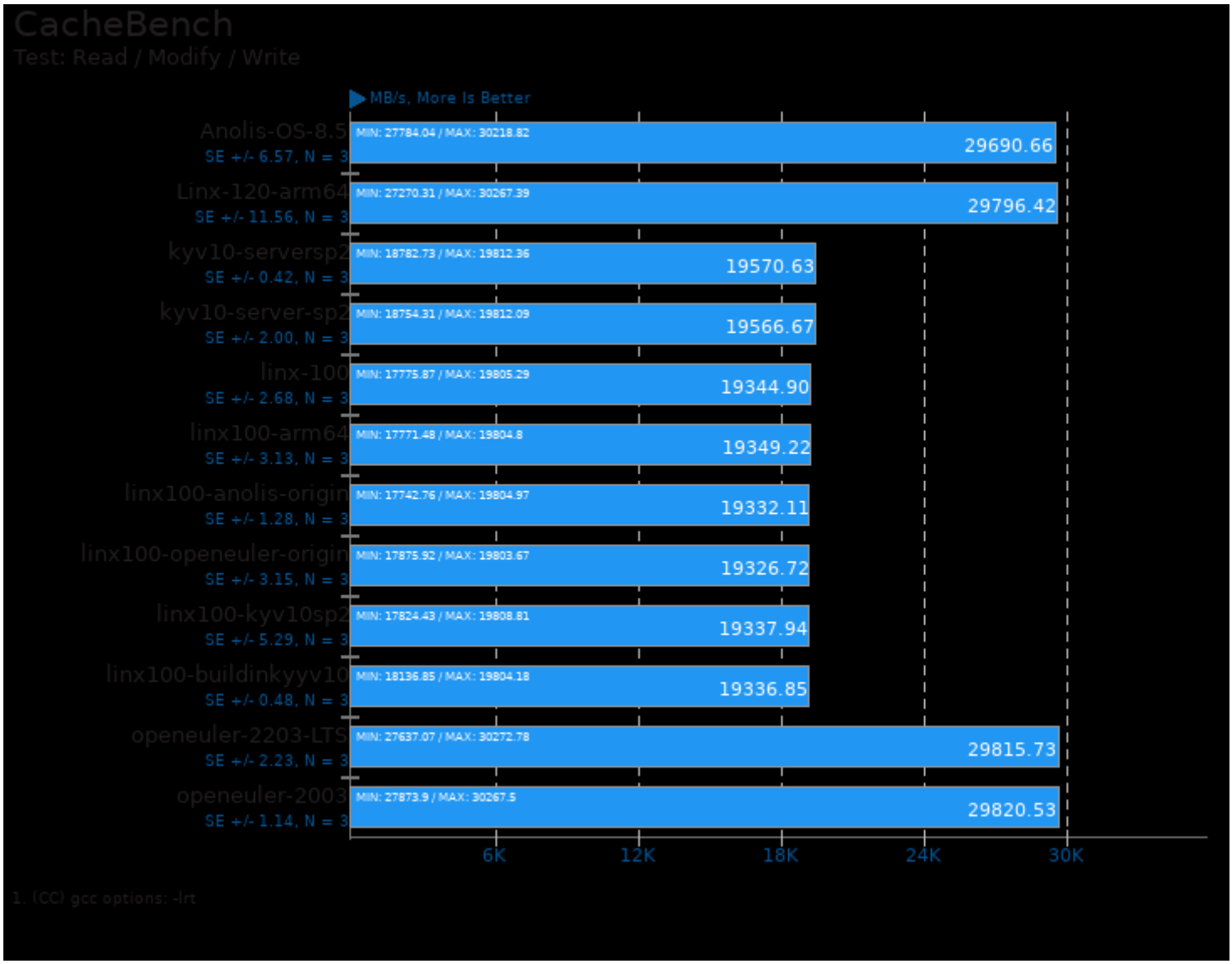

RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Integer
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 4.74, N = 3
17098.81
Linx-120-arm64
SE +/- 159.19, N = 3
26159.30
kyv10-serversp2
SE +/- 5.09, N = 3
15533.56
kyv10-server-sp2
SE +/- 2.93, N = 3
15515.38
linx-100
SE +/- 100.42, N = 3
16890.48
linx100-arm64
SE +/- 164.69, N = 3
16971.38
linx100-anolis-origin
SE +/- 15.61, N = 3
16527.46
linx100-openeuler-origin
SE +/- 12.04, N = 3
16733.84
linx100-kyv10sp2
SE +/- 2.70, N = 3
17160.78
linx100-buildinkyyv10
SE +/- 9.54, N = 3
16936.81
openeuler-2203-LTS
SE +/- 473.17, N = 15
12271.56
openeuler-2003
SE +/- 3.28, N = 3
15691.89
6K
12K
18K
24K
30K
1. (CC) gcc options: -O3 -march=native

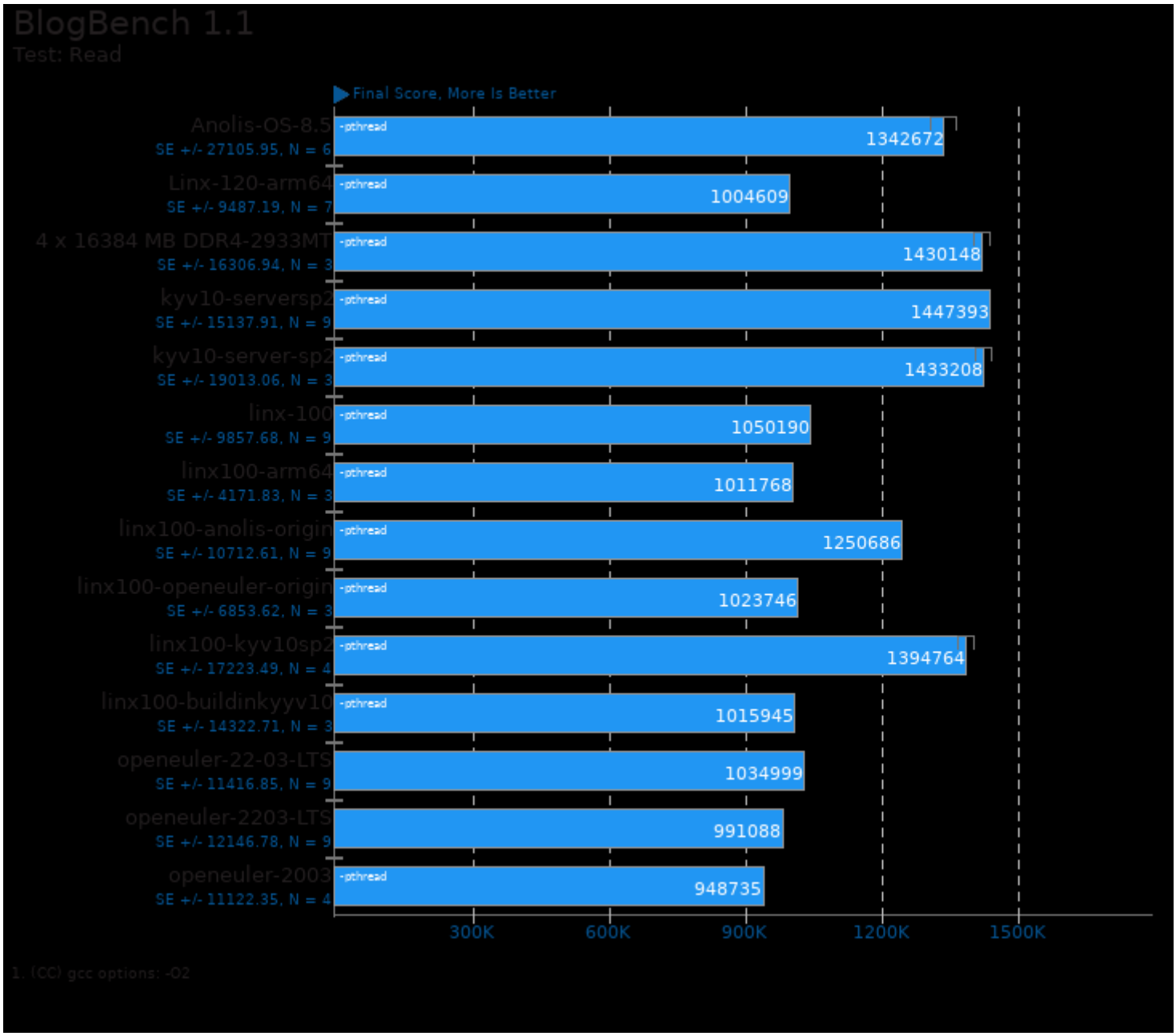

Compile Bench 0.6
Test: Initial Create
MB/s, More Is Better
Linx-120-arm64
SE +/- 0.78, N = 3
280.18
kyv10-serversp2
SE +/- 1.03, N = 3
272.61
kyv10-server-sp2
SE +/- 2.64, N = 3
279.26
linx-100
SE +/- 1.53, N = 10
198.76
linx100-arm64
SE +/- 1.20, N = 3
199.71
linx100-anolis-origin
SE +/- 1.20, N = 3
229.52
linx100-openeuler-origin
SE +/- 1.16, N = 3
226.49
linx100-kyv10sp2
SE +/- 1.16, N = 3
189.97
linx100-buildinkyyv10
SE +/- 1.04, N = 3
227.82
openeuler-2003
SE +/- 0.82, N = 3
132.40
60
120
180
240
300

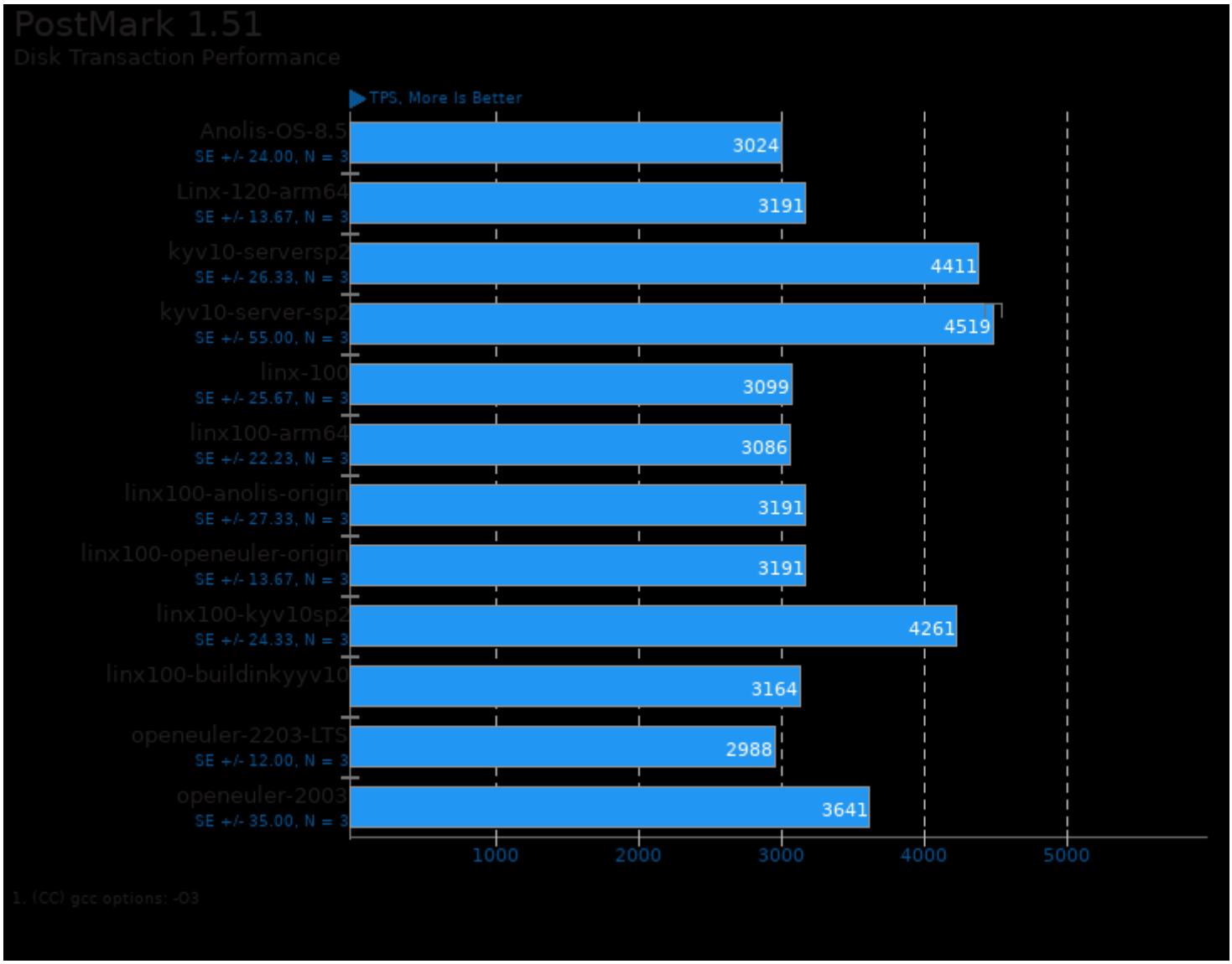

IOzone 3.465
Record Size: 64Kb - File Size: 512MB - Disk Test: Write Performance
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 0.1190196, N = 3
37.7000000
Linx-120-arm64
SE +/- 0.1915908, N = 3
37.1600000
kyv10-serversp2
SE +/- 0.1240482, N = 3
38.2400000
kyv10-server-sp2
SE +/- 0.1082238, N = 3
37.6400000
linx-100
SE +/- 0.1047646, N = 3
36.9400000
linx100-arm64
SE +/- 0.1397785, N = 3
37.3958333
linx100-anolis-origin
SE +/- 0.0157701, N = 3
36.9900000
linx100-openeuler-origin
SE +/- 0.0613639, N = 3
37.0000000
linx100-kyv10sp2
SE +/- 0.1631438, N = 3
37.5700000
linx100-buildinkyyv10
SE +/- 0.1072486, N = 3
36.9800000
openeuler-22-03-LTS
SE +/- 0.0029834, N = 3
2.5200000
openeuler-2203-LTS
SE +/- 0.3059530, N = 3
37.0900000
openeuler-2003
SE +/- 0.1810419, N = 12
6.0100000
9
18
27
36
45
1. (CC) gcc options: -O3

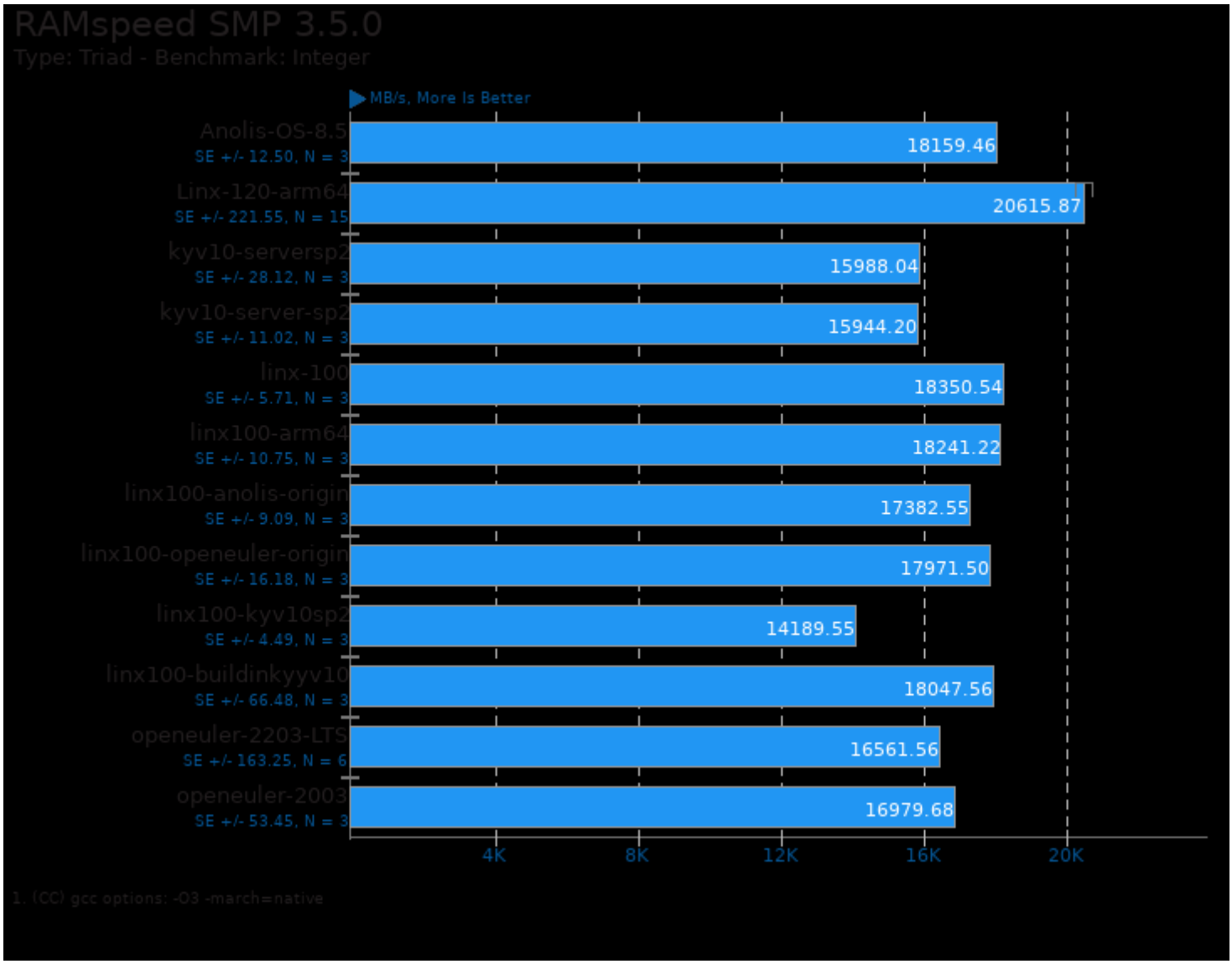

Threaded I/O Tester 20170503
Test: Read - Size Per Thread: 128MB - Thread Count: 4
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 111.20, N = 12
11946.95
Linx-120-arm64
SE +/- 163.32, N = 3
12512.56
kyv10-serversp2
SE +/- 30.61, N = 3
15886.43
kyv10-server-sp2
SE +/- 59.80, N = 3
15967.85
linx-100
SE +/- 137.55, N = 3
11681.93
linx100-arm64
SE +/- 25.61, N = 3
11833.34
linx100-anolis-origin
SE +/- 120.47, N = 3
12377.58
linx100-openeuler-origin
SE +/- 101.20, N = 8
11613.81
linx100-kyv10sp2
SE +/- 23.09, N = 3
14549.94
linx100-buildinkyyv10
SE +/- 102.29, N = 3
12304.28
openeuler-22-03-LTS
SE +/- 417.83, N = 6
7997.35
openeuler-2203-LTS
SE +/- 450.00, N = 10
12569.29
openeuler-2003
SE +/- 49.08, N = 3
15593.43
3K
6K
9K
12K
15K
1. (CC) gcc options: -O2

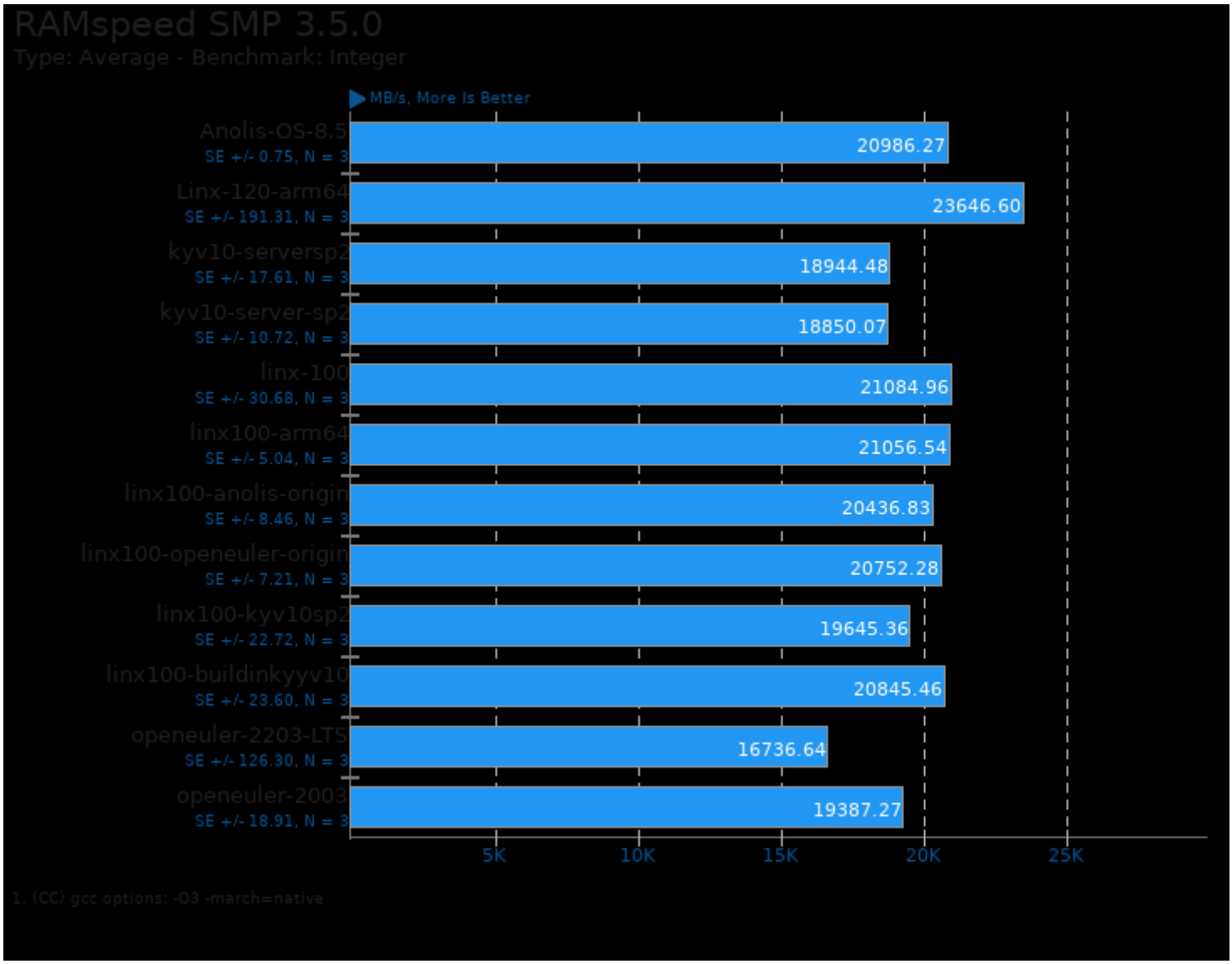

PHPBench 0.8.1
PHP Benchmark Suite
Score, More Is Better
Anolis-OS-8.5
SE +/- 1485.55, N = 3
287127
Linx-120-arm64
SE +/- 49.95, N = 3
409819
kyv10-serversp2
SE +/- 2410.81, N = 3
257848
kyv10-server-sp2
SE +/- 3129.85, N = 3
261094
linx-100
SE +/- 2908.41, N = 6
310323
linx100-arm64
SE +/- 151.39, N = 3
313161
linx100-anolis-origin
SE +/- 3140.81, N = 6
310265
linx100-openeuler-origin
SE +/- 84.07, N = 3
314682
linx100-kyv10sp2
SE +/- 560.89, N = 3
313981
linx100-buildinkyyv10
SE +/- 254.36, N = 3
313483
openeuler-2203-LTS
SE +/- 268.78, N = 3
394708
openeuler-2003
SE +/- 2982.50, N = 5
277476
90K
180K
270K
360K
450K

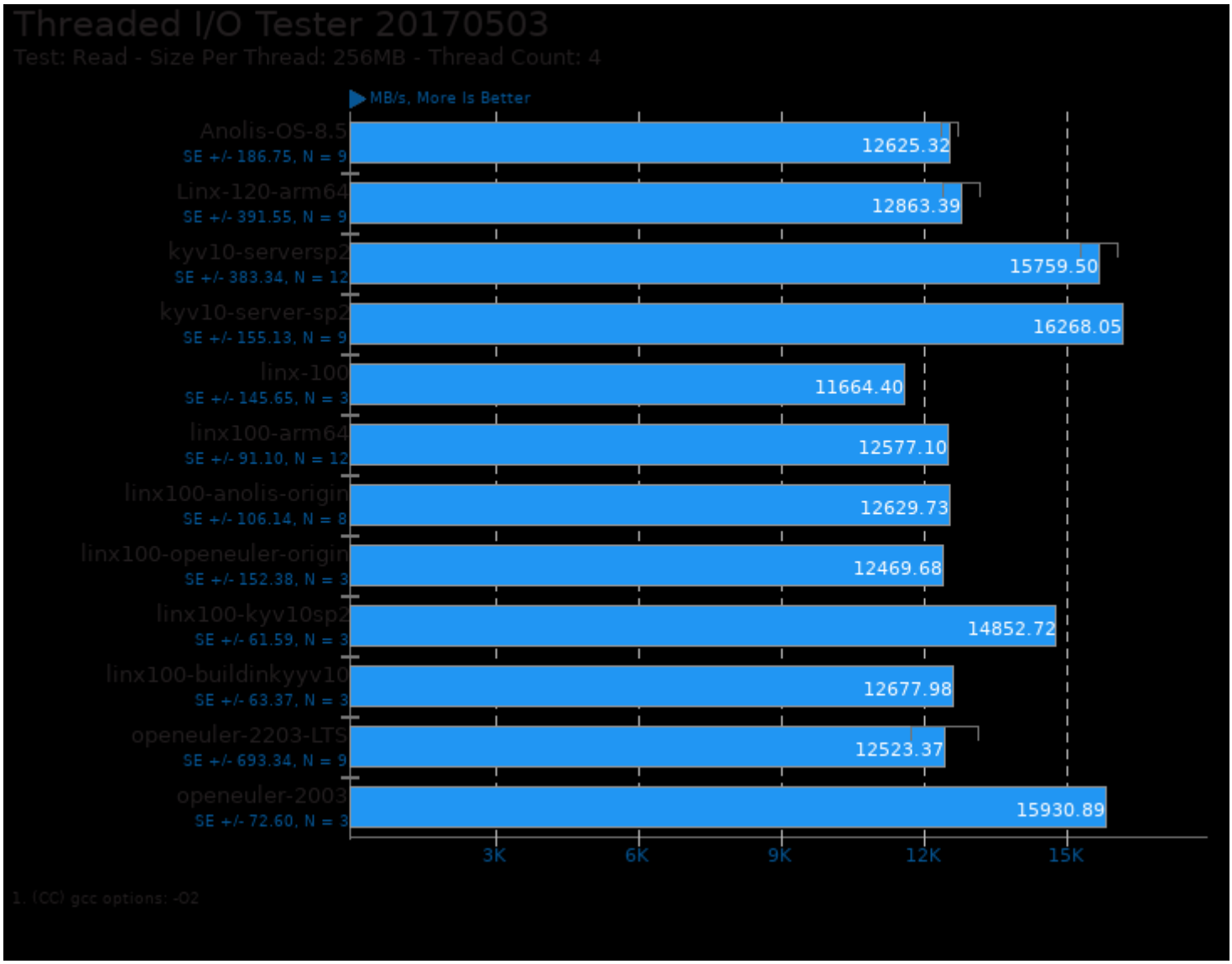

CacheBench
Test: Read / Modify / Write
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 6.57, N = 3
MIN: 27784.04 / MAX: 30218.82
29690.66
Linx-120-arm64
SE +/- 11.56, N = 3
MIN: 27270.31 / MAX: 30267.39
29796.42
kyv10-serversp2
SE +/- 0.42, N = 3
MIN: 18782.73 / MAX: 19812.36
19570.63
kyv10-server-sp2
SE +/- 2.00, N = 3
MIN: 18754.31 / MAX: 19812.09
19566.67
linx-100
SE +/- 2.68, N = 3
MIN: 17775.87 / MAX: 19805.29
19344.90
linx100-arm64
SE +/- 3.13, N = 3
MIN: 17771.48 / MAX: 19804.8
19349.22
linx100-anolis-origin
SE +/- 1.28, N = 3
MIN: 17742.76 / MAX: 19804.97
19332.11
linx100-openeuler-origin
SE +/- 3.15, N = 3
MIN: 17875.92 / MAX: 19803.67
19326.72
linx100-kyv10sp2
SE +/- 5.29, N = 3
MIN: 17824.43 / MAX: 19808.81
19337.94
linx100-buildinkyyv10
SE +/- 0.48, N = 3
MIN: 18136.85 / MAX: 19804.18
19336.85
openeuler-2203-LTS
SE +/- 2.23, N = 3
MIN: 27637.07 / MAX: 30272.78
29815.73
openeuler-2003
SE +/- 1.14, N = 3
MIN: 27873.9 / MAX: 30267.5
29820.53
6K
12K
18K
24K
30K
1. (CC) gcc options: -lrt

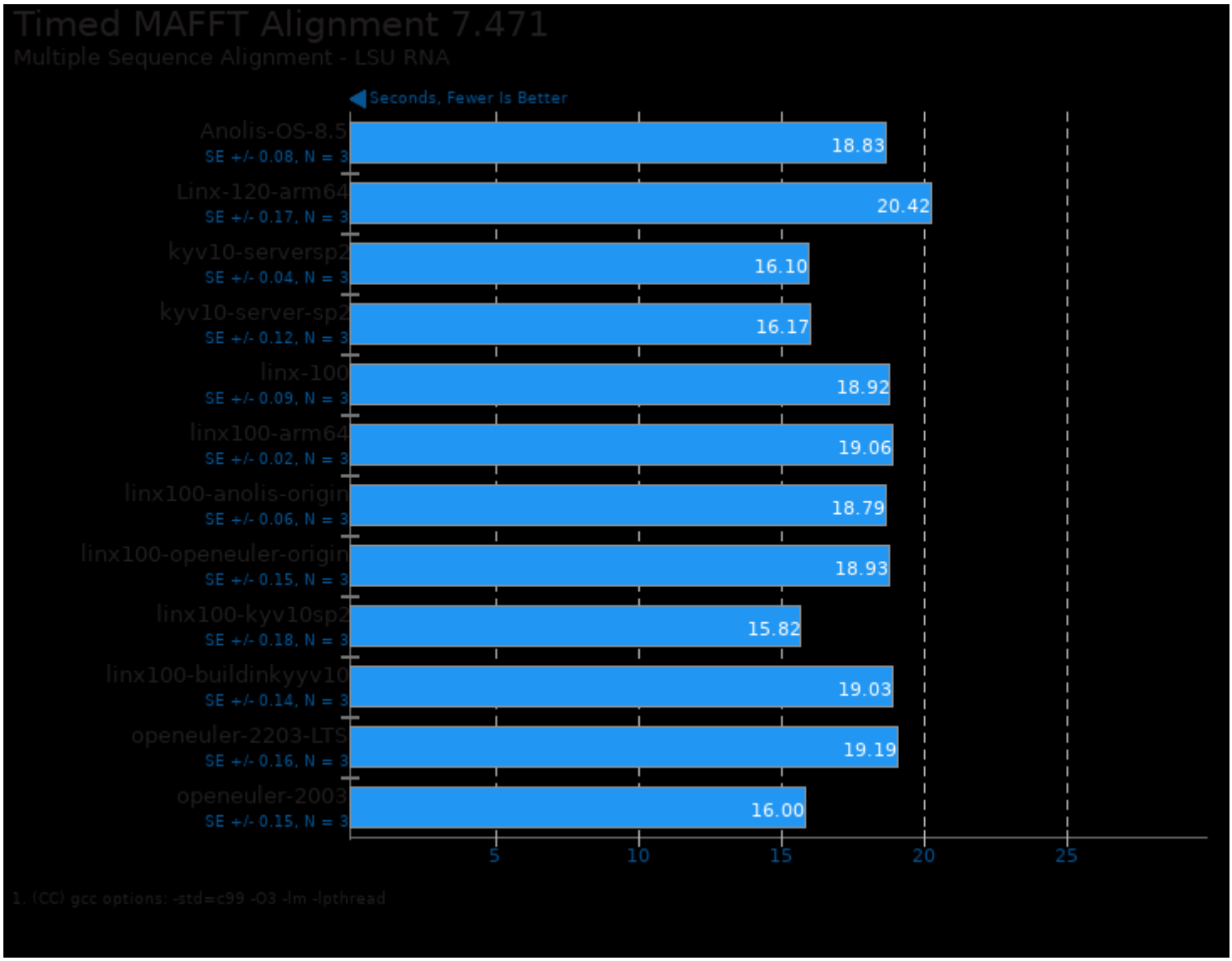

BlogBench 1.1
Test: Read
Final Score, More Is Better
Anolis-OS-8.5
SE +/- 27105.95, N = 6
Linx-120-arm64
SE +/- 9487.19, N = 7
4 x 16384 MB DDR4-2933MT
SE +/- 16306.94, N = 3
kyv10-serversp2
SE +/- 15137.91, N = 9
kyv10-server-sp2
SE +/- 19013.06, N = 3
linx-100
SE +/- 9857.68, N = 9
linx100-arm64
SE +/- 4171.83, N = 3
linx100-anolis-origin
SE +/- 10712.61, N = 9
linx100-openeuler-origin
SE +/- 6853.62, N = 3
linx100-kyv10sp2
SE +/- 17223.49, N = 4
linx100-buildinkyyv10
SE +/- 14322.71, N = 3
openeuler-22-03-LTS
SE +/- 11416.85, N = 9
openeuler-2203-LTS
SE +/- 12146.78, N = 9
openeuler-2003
SE +/- 11122.35, N = 4
-pthread
1342672
1004609
1430148
1447393
1433208
1050190
1011768
1250686
1023746
1394764
1015945
1034999
991088
948735
300K
600K
900K
1200K
1500K
1. (CC) gcc options: -O2

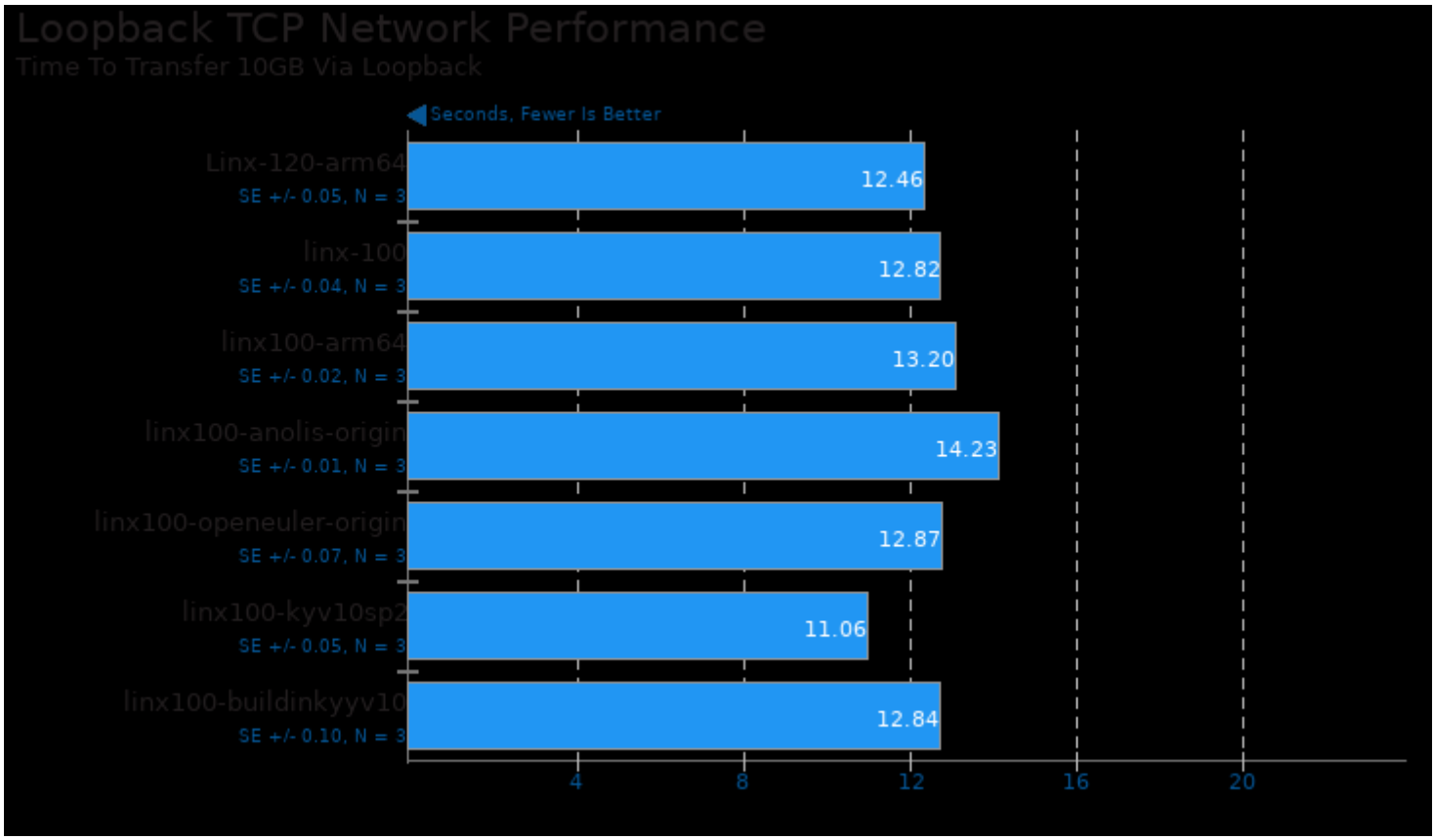

PostMark 1.51
Disk Transaction Performance
TPS, More Is Better
Anolis-OS-8.5
SE +/- 24.00, N = 3
3024
Linx-120-arm64
SE +/- 13.67, N = 3
3191
kyv10-serversp2
SE +/- 26.33, N = 3
4411
kyv10-server-sp2
SE +/- 55.00, N = 3
4519
linx-100
SE +/- 25.67, N = 3
3099
linx100-arm64
SE +/- 22.23, N = 3
3086
linx100-anolis-origin
SE +/- 27.33, N = 3
3191
linx100-openeuler-origin
SE +/- 13.67, N = 3
3191
linx100-kyv10sp2
SE +/- 24.33, N = 3
4261
linx100-buildinkyyv10
3164
openeuler-2203-LTS
SE +/- 12.00, N = 3
2988
openeuler-2003
SE +/- 35.00, N = 3
3641
1000
2000
3000
4000
5000
1. (CC) gcc options: -O3

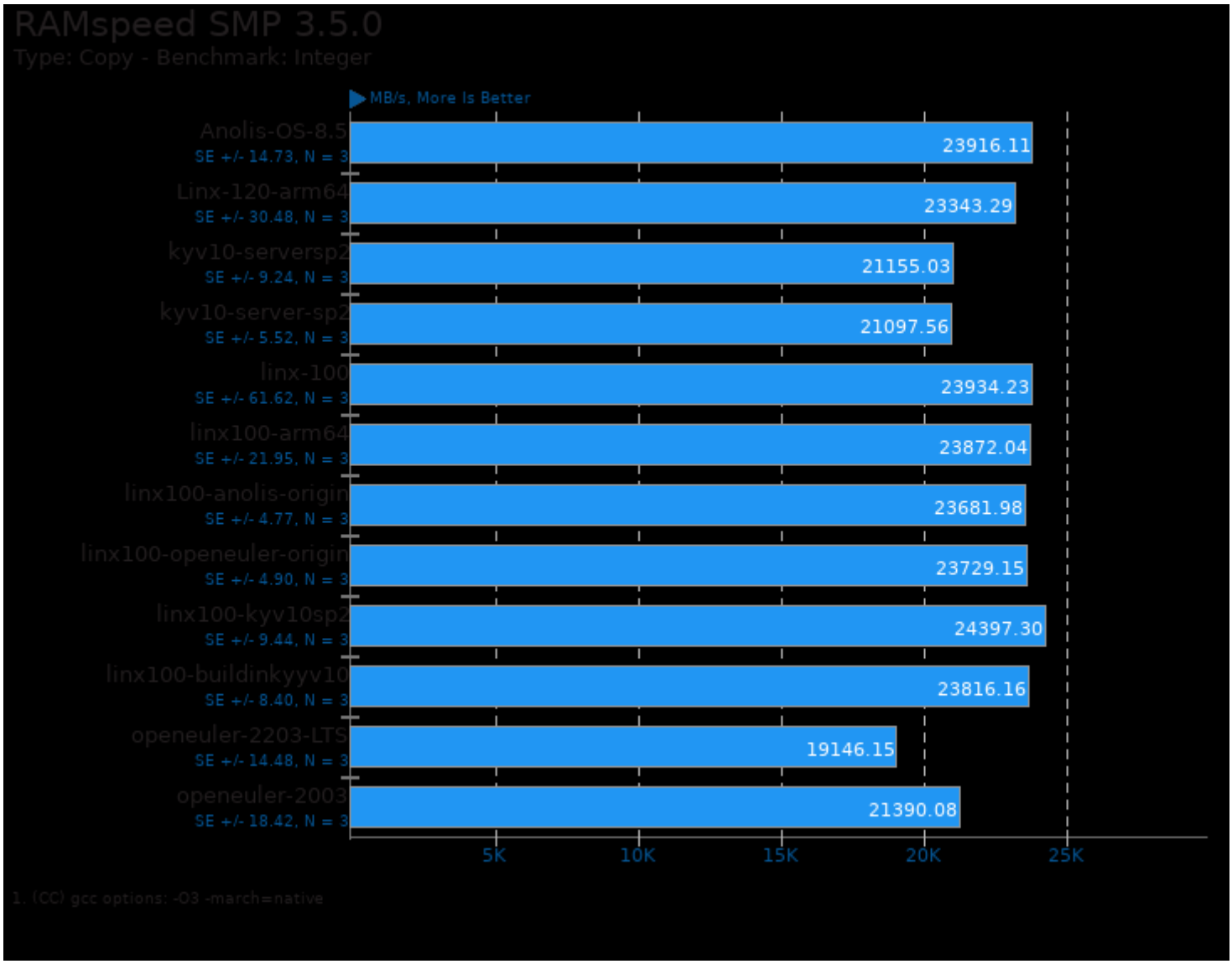

RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Integer
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 12.50, N = 3
18159.46
Linx-120-arm64
SE +/- 221.55, N = 15
20615.87
kyv10-serversp2
SE +/- 28.12, N = 3
15988.04
kyv10-server-sp2
SE +/- 11.02, N = 3
15944.20
linx-100
SE +/- 5.71, N = 3
18350.54
linx100-arm64
SE +/- 10.75, N = 3
18241.22
linx100-anolis-origin
SE +/- 9.09, N = 3
17382.55
linx100-openeuler-origin
SE +/- 16.18, N = 3
17971.50
linx100-kyv10sp2
SE +/- 4.49, N = 3
14189.55
linx100-buildinkyyv10
SE +/- 66.48, N = 3
18047.56
openeuler-2203-LTS
SE +/- 163.25, N = 6
16561.56
openeuler-2003
SE +/- 53.45, N = 3
16979.68
4K
8K
12K
16K
20K
1. (CC) gcc options: -O3 -march=native

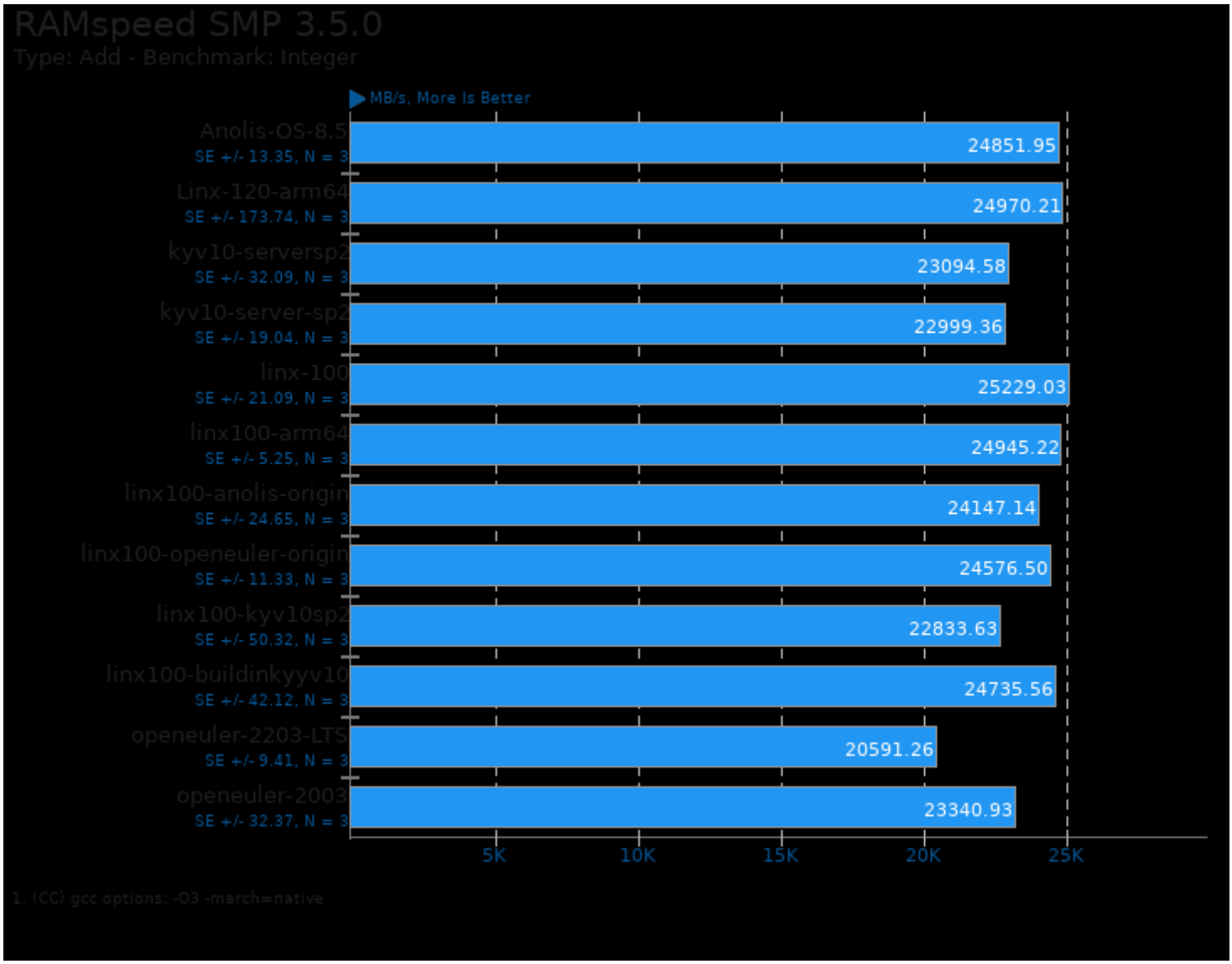

RAMspeed SMP 3.5.0
Type: Average - Benchmark: Integer
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 0.75, N = 3
20986.27
Linx-120-arm64
SE +/- 191.31, N = 3
23646.60
kyv10-serversp2
SE +/- 17.61, N = 3
18944.48
kyv10-server-sp2
SE +/- 10.72, N = 3
18850.07
linx-100
SE +/- 30.68, N = 3
21084.96
linx100-arm64
SE +/- 5.04, N = 3
21056.54
linx100-anolis-origin
SE +/- 8.46, N = 3
20436.83
linx100-openeuler-origin
SE +/- 7.21, N = 3
20752.28
linx100-kyv10sp2
SE +/- 22.72, N = 3
19645.36
linx100-buildinkyyv10
SE +/- 23.60, N = 3
20845.46
openeuler-2203-LTS
SE +/- 126.30, N = 3
16736.64
openeuler-2003
SE +/- 18.91, N = 3
19387.27
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native

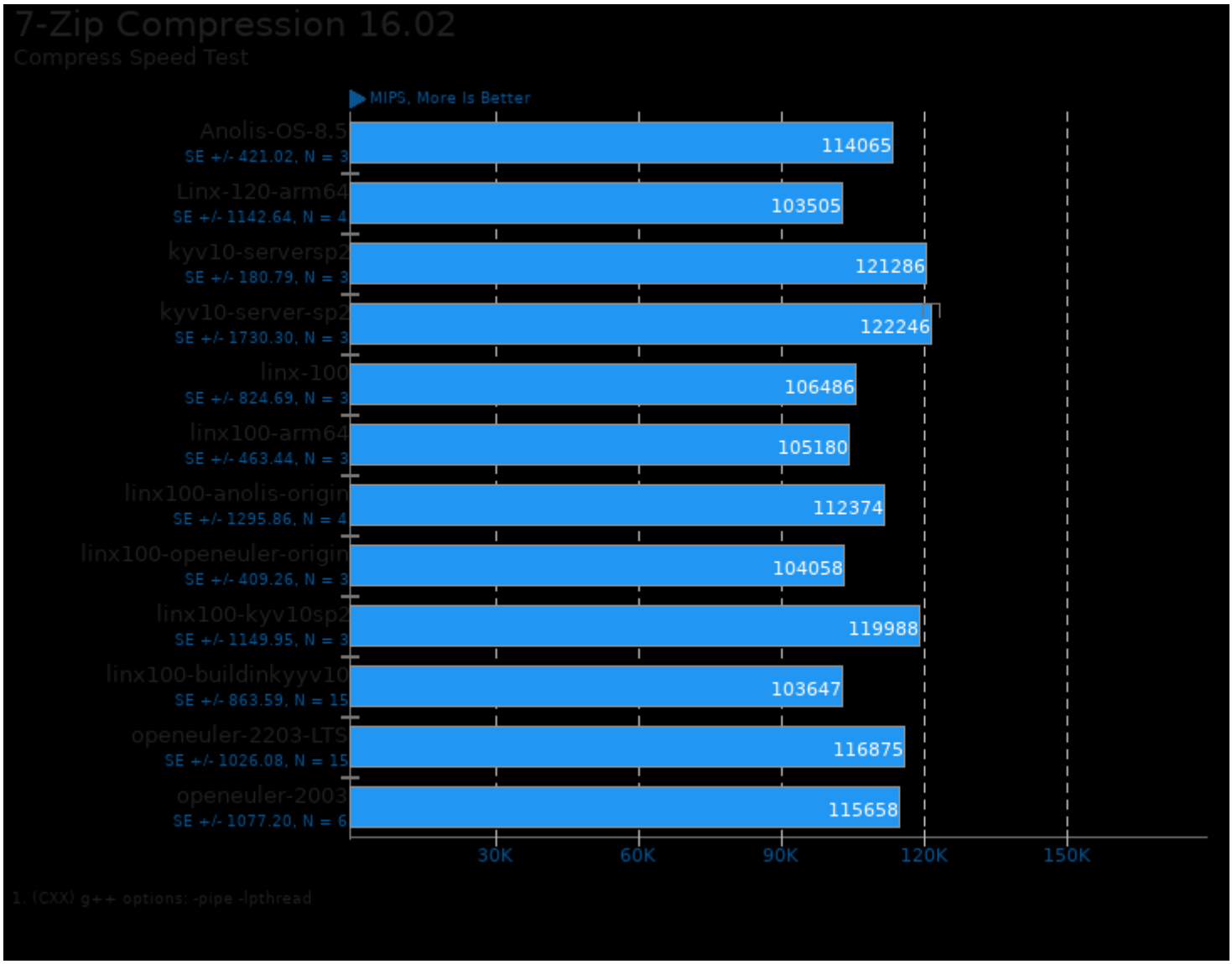

Threaded I/O Tester 20170503
Test: Read - Size Per Thread: 256MB - Thread Count: 4
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 186.75, N = 9
12625.32
Linx-120-arm64
SE +/- 391.55, N = 9
12863.39
kyv10-serversp2
SE +/- 383.34, N = 12
15759.50
kyv10-server-sp2
SE +/- 155.13, N = 9
16268.05
linx-100
SE +/- 145.65, N = 3
11664.40
linx100-arm64
SE +/- 91.10, N = 12
12577.10
linx100-anolis-origin
SE +/- 106.14, N = 8
12629.73
linx100-openeuler-origin
SE +/- 152.38, N = 3
12469.68
linx100-kyv10sp2
SE +/- 61.59, N = 3
14852.72
linx100-buildinkyyv10
SE +/- 63.37, N = 3
12677.98
openeuler-2203-LTS
SE +/- 693.34, N = 9
12523.37
openeuler-2003
SE +/- 72.60, N = 3
15930.89
3K
6K
9K
12K
15K
1. (CC) gcc options: -O2

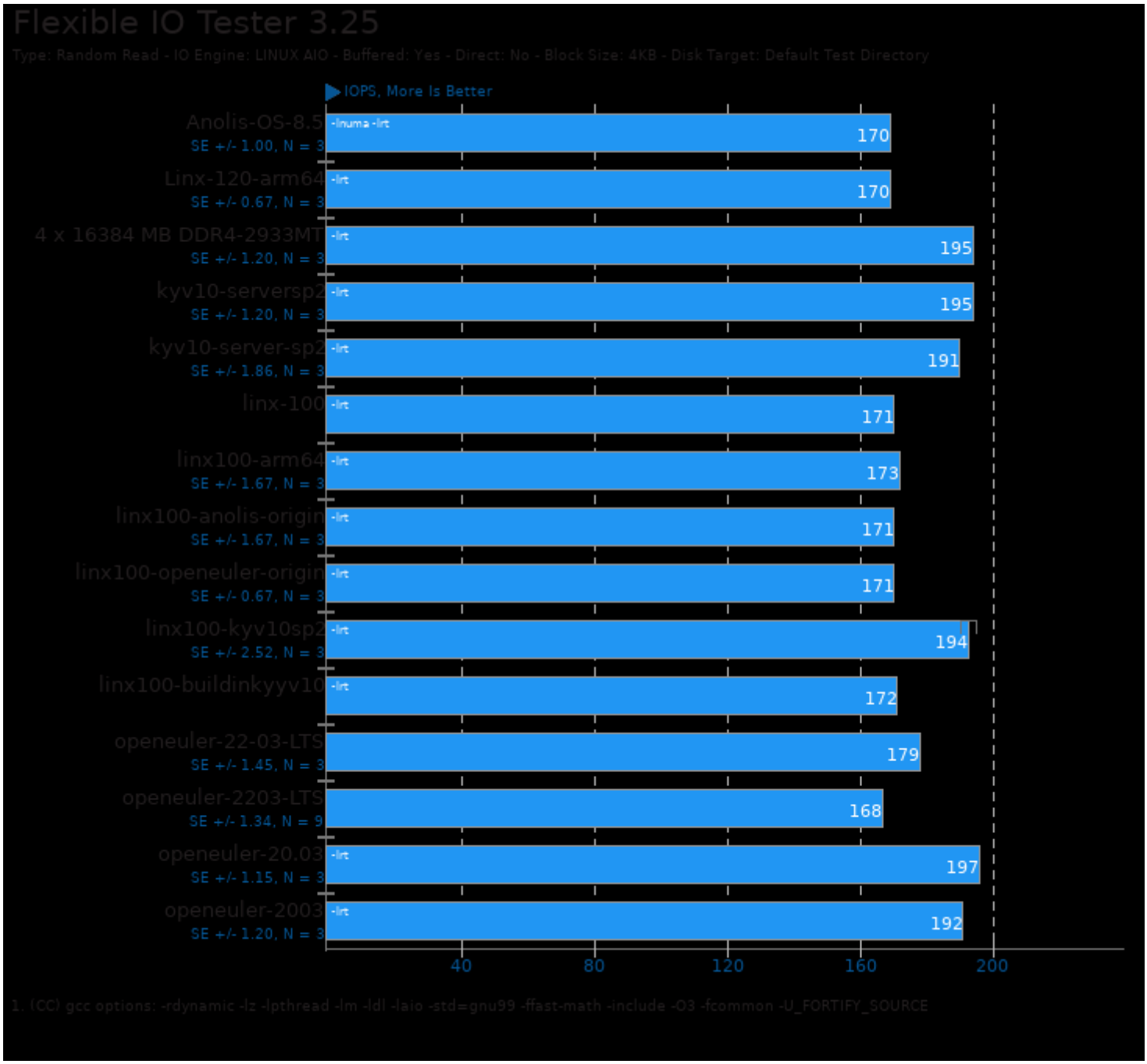

Timed MAFFT Alignment 7.471
Multiple Sequence Alignment - LSU RNA
Seconds, Fewer Is Better
Anolis-OS-8.5
SE +/- 0.08, N = 3
18.83
Linx-120-arm64
SE +/- 0.17, N = 3
20.42
kyv10-serversp2
SE +/- 0.04, N = 3
16.10
kyv10-server-sp2
SE +/- 0.12, N = 3
16.17
linx-100
SE +/- 0.09, N = 3
18.92
linx100-arm64
SE +/- 0.02, N = 3
19.06
linx100-anolis-origin
SE +/- 0.06, N = 3
18.79
linx100-openeuler-origin
SE +/- 0.15, N = 3
18.93
linx100-kyv10sp2
SE +/- 0.18, N = 3
15.82
linx100-buildinkyyv10
SE +/- 0.14, N = 3
19.03
openeuler-2203-LTS
SE +/- 0.16, N = 3
19.19
openeuler-2003
SE +/- 0.15, N = 3
16.00
5
10
15
20
25
1. (CC) gcc options: -std=c99 -O3 -lm -lpthread

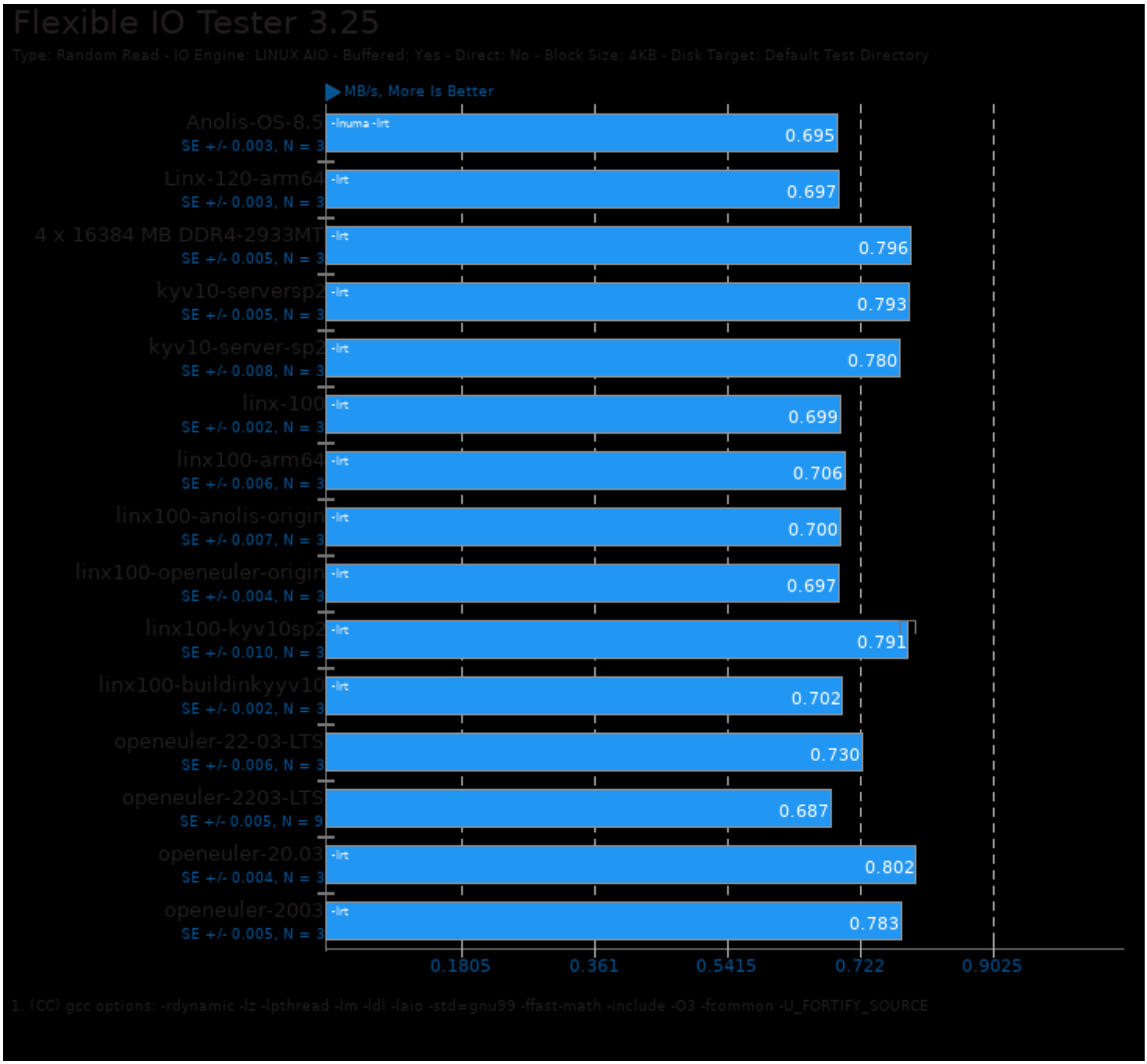

Loopback TCP Network Performance
Time To Transfer 10GB Via Loopback
Seconds, Fewer Is Better
Linx-120-arm64
SE +/- 0.05, N = 3
12.46
linx-100
SE +/- 0.04, N = 3
12.82
linx100-arm64
SE +/- 0.02, N = 3
13.20
linx100-anolis-origin
SE +/- 0.01, N = 3
14.23
linx100-openeuler-origin
SE +/- 0.07, N = 3
12.87
linx100-kyv10sp2
SE +/- 0.05, N = 3
11.06
linx100-buildinkyyv10
SE +/- 0.10, N = 3
12.84
4
8
12
16
20

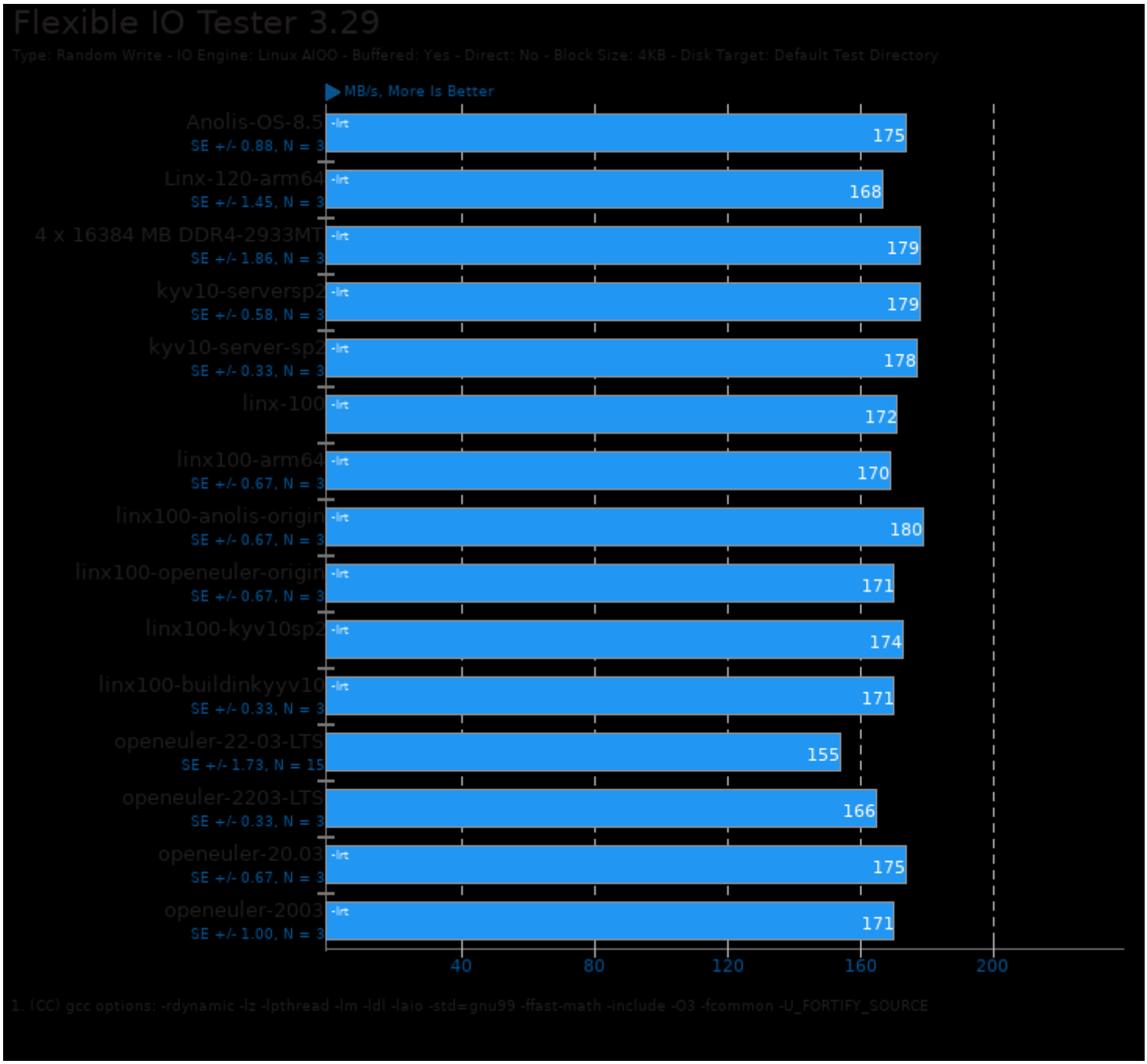

RAMspeed SMP 3.5.0
Type: Copy - Benchmark: Integer
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 14.73, N = 3
23916.11
Linx-120-arm64
SE +/- 30.48, N = 3
23343.29
kyv10-serversp2
SE +/- 9.24, N = 3
21155.03
kyv10-server-sp2
SE +/- 5.52, N = 3
21097.56
linx-100
SE +/- 61.62, N = 3
23934.23
linx100-arm64
SE +/- 21.95, N = 3
23872.04
linx100-anolis-origin
SE +/- 4.77, N = 3
23681.98
linx100-openeuler-origin
SE +/- 4.90, N = 3
23729.15
linx100-kyv10sp2
SE +/- 9.44, N = 3
24397.30
linx100-buildinkyyv10
SE +/- 8.40, N = 3
23816.16
openeuler-2203-LTS
SE +/- 14.48, N = 3
19146.15
openeuler-2003
SE +/- 18.42, N = 3
21390.08
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native

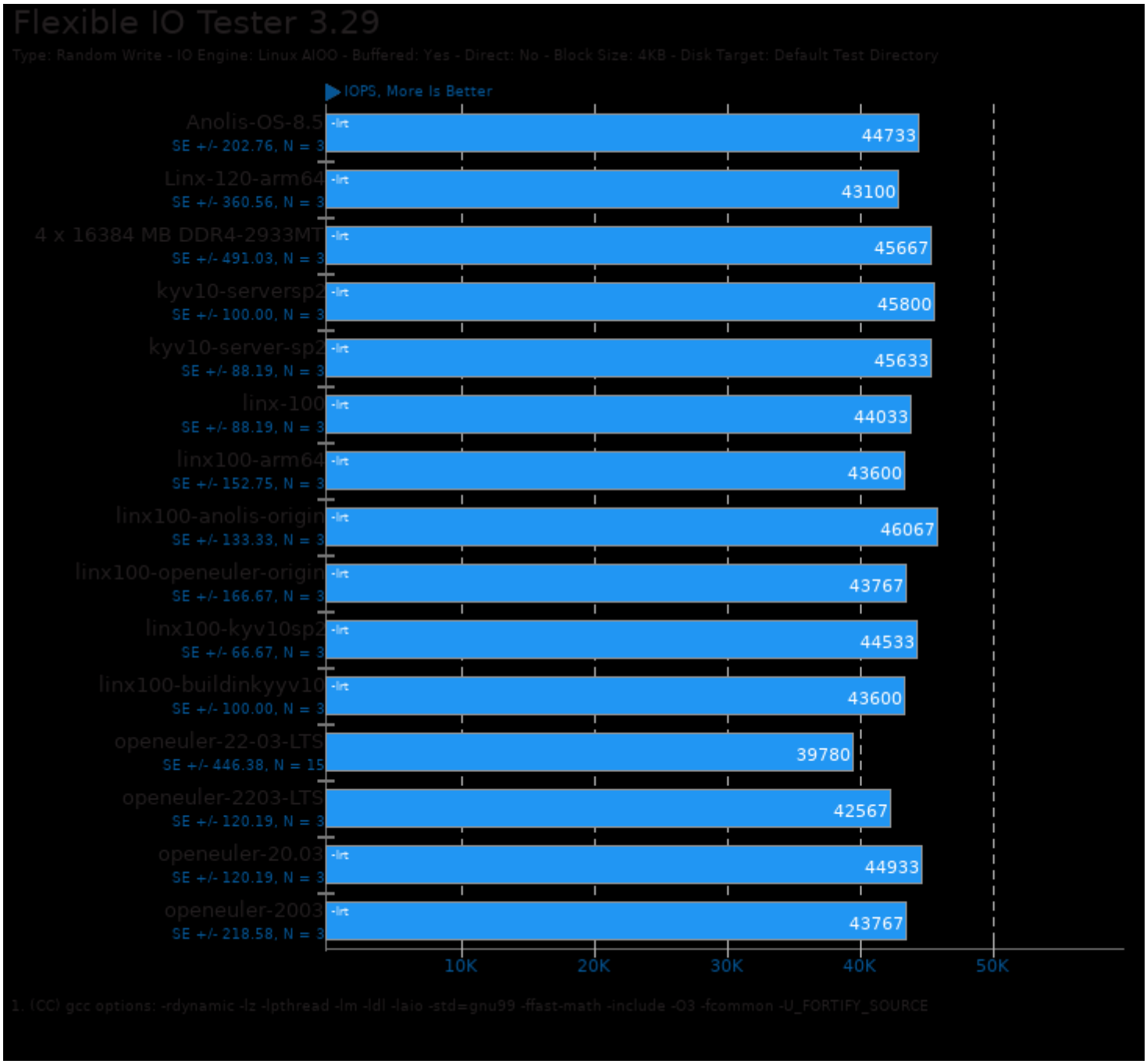

RAMspeed SMP 3.5.0
Type: Add - Benchmark: Integer
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 13.35, N = 3
24851.95
Linx-120-arm64
SE +/- 173.74, N = 3
24970.21
kyv10-serversp2
SE +/- 32.09, N = 3
23094.58
kyv10-server-sp2
SE +/- 19.04, N = 3
22999.36
linx-100
SE +/- 21.09, N = 3
25229.03
linx100-arm64
SE +/- 5.25, N = 3
24945.22
linx100-anolis-origin
SE +/- 24.65, N = 3
24147.14
linx100-openeuler-origin
SE +/- 11.33, N = 3
24576.50
linx100-kyv10sp2
SE +/- 50.32, N = 3
22833.63
linx100-buildinkyyv10
SE +/- 42.12, N = 3
24735.56
openeuler-2203-LTS
SE +/- 9.41, N = 3
20591.26
openeuler-2003
SE +/- 32.37, N = 3
23340.93
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native

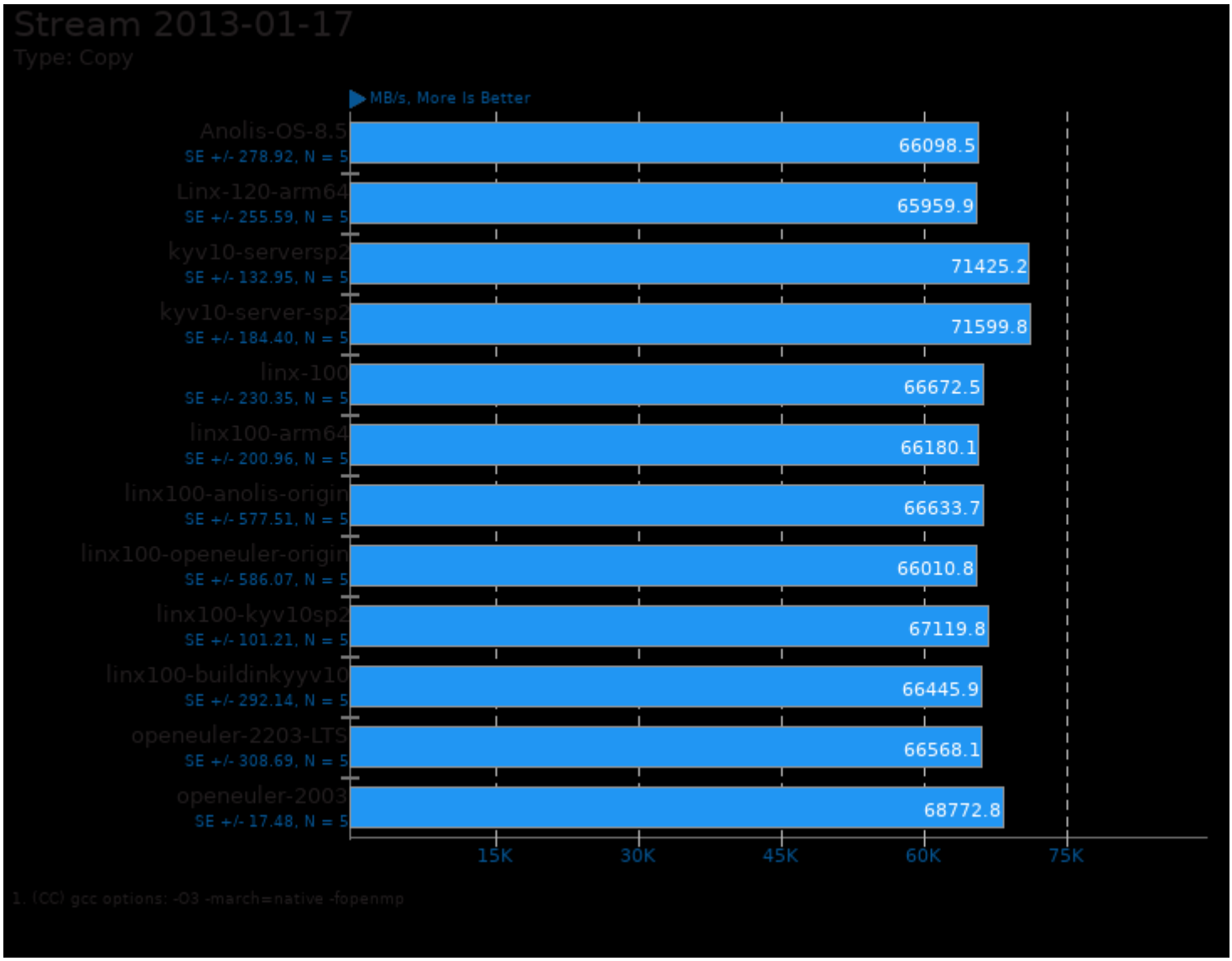

7-Zip Compression 16.02
Compress Speed Test
MIPS, More Is Better
Anolis-OS-8.5
SE +/- 421.02, N = 3
114065
Linx-120-arm64
SE +/- 1142.64, N = 4
103505
kyv10-serversp2
SE +/- 180.79, N = 3
121286
kyv10-server-sp2
SE +/- 1730.30, N = 3
122246
linx-100
SE +/- 824.69, N = 3
106486
linx100-arm64
SE +/- 463.44, N = 3
105180
linx100-anolis-origin
SE +/- 1295.86, N = 4
112374
linx100-openeuler-origin
SE +/- 409.26, N = 3
104058
linx100-kyv10sp2
SE +/- 1149.95, N = 3
119988
linx100-buildinkyyv10
SE +/- 863.59, N = 15
103647
openeuler-2203-LTS
SE +/- 1026.08, N = 15
116875
openeuler-2003
SE +/- 1077.20, N = 6
115658
30K
60K
90K
120K
150K
1. (CXX) g++ options: -pipe -lpthread

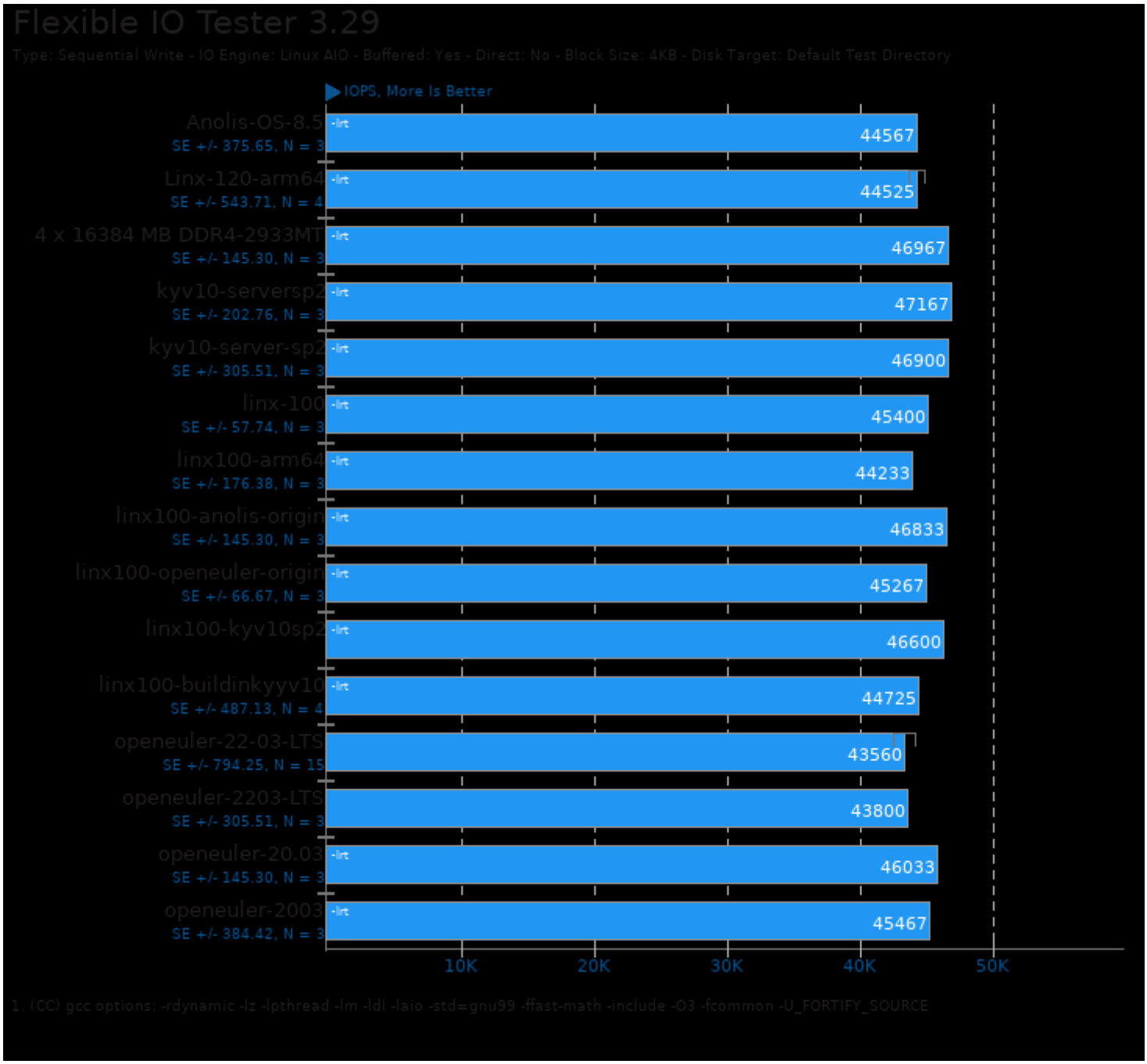

Flexible IO Tester 3.25
Type: Random Read - IO Engine: LINUX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
Anolis-OS-8.5
SE +/- 1.00, N = 3
-lnuma -lrt
170
Linx-120-arm64
SE +/- 0.67, N = 3
-lrt
170
4 x 16384 MB DDR4-2933MT
SE +/- 1.20, N = 3
-lrt
195
kyv10-serversp2
SE +/- 1.20, N = 3
-lrt
195
kyv10-server-sp2
SE +/- 1.86, N = 3
-lrt
191
linx-100
-lrt
171
linx100-arm64
SE +/- 1.67, N = 3
-lrt
173
linx100-anolis-origin
SE +/- 1.67, N = 3
-lrt
171
linx100-openeuler-origin
SE +/- 0.67, N = 3
-lrt
171
linx100-kyv10sp2
SE +/- 2.52, N = 3
-lrt
194
linx100-buildinkyyv10
-lrt
172
openeuler-22-03-LTS
SE +/- 1.45, N = 3
179
openeuler-2203-LTS
SE +/- 1.34, N = 9
168
openeuler-20.03
SE +/- 1.15, N = 3
-lrt
197
openeuler-2003
SE +/- 1.20, N = 3
-lrt
192
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

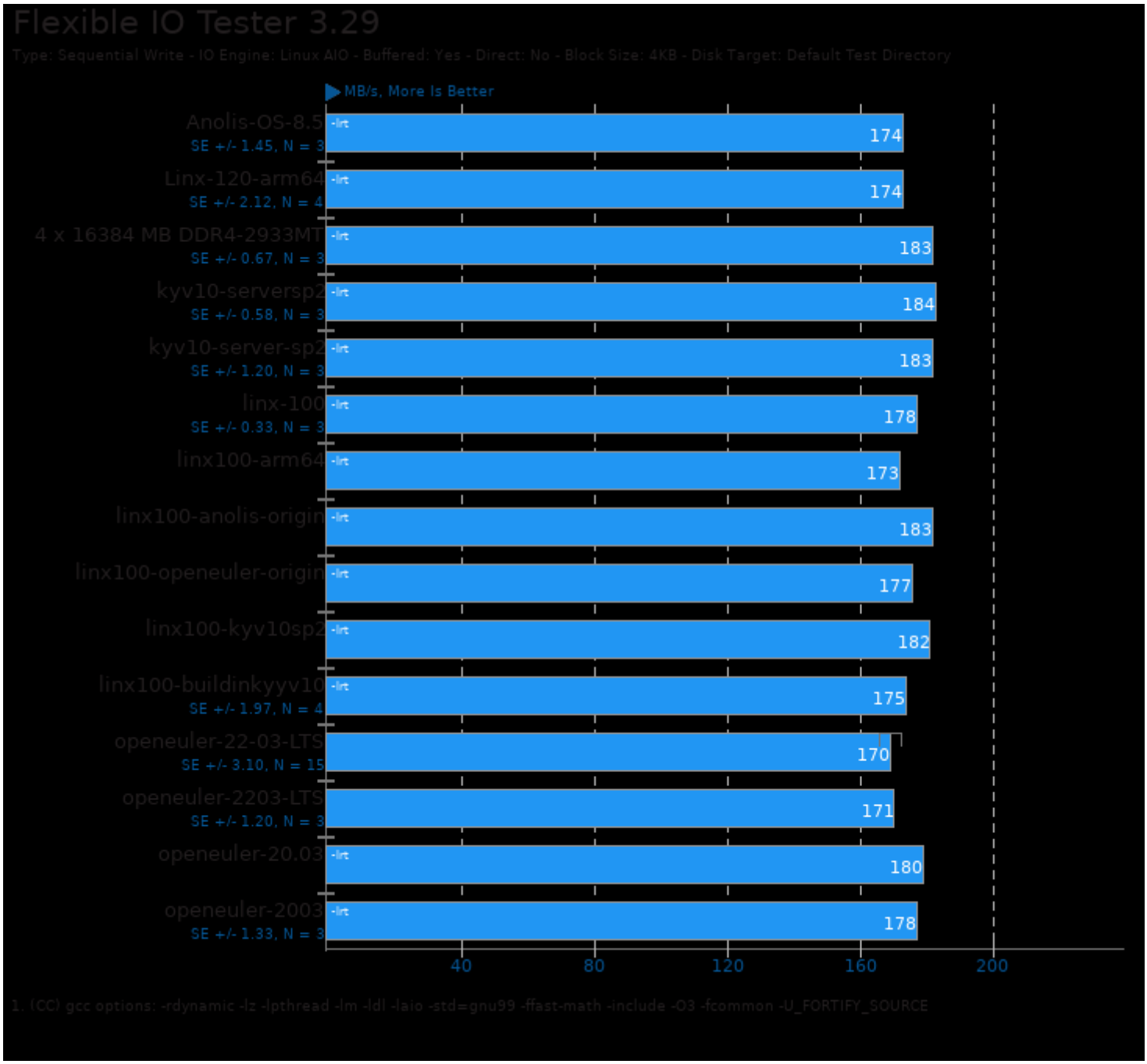

Flexible IO Tester 3.25
Type: Random Read - IO Engine: LINUX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 0.003, N = 3
-lnuma -lrt
0.695
Linx-120-arm64
SE +/- 0.003, N = 3
-lrt
0.697
4 x 16384 MB DDR4-2933MT
SE +/- 0.005, N = 3
-lrt
0.796
kyv10-serversp2
SE +/- 0.005, N = 3
-lrt
0.793
kyv10-server-sp2
SE +/- 0.008, N = 3
-lrt
0.780
linx-100
SE +/- 0.002, N = 3
-lrt
0.699
linx100-arm64
SE +/- 0.006, N = 3
-lrt
0.706
linx100-anolis-origin
SE +/- 0.007, N = 3
-lrt
0.700
linx100-openeuler-origin
SE +/- 0.004, N = 3
-lrt
0.697
linx100-kyv10sp2
SE +/- 0.010, N = 3
-lrt
0.791
linx100-buildinkyyv10
SE +/- 0.002, N = 3
-lrt
0.702
openeuler-22-03-LTS
SE +/- 0.006, N = 3
0.730
openeuler-2203-LTS
SE +/- 0.005, N = 9
0.687
openeuler-20.03
SE +/- 0.004, N = 3
-lrt
0.802
openeuler-2003
SE +/- 0.005, N = 3
-lrt
0.783
0.1805
0.361
0.5415
0.722
0.9025
1. (CC) gcc options: -rdynamic -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

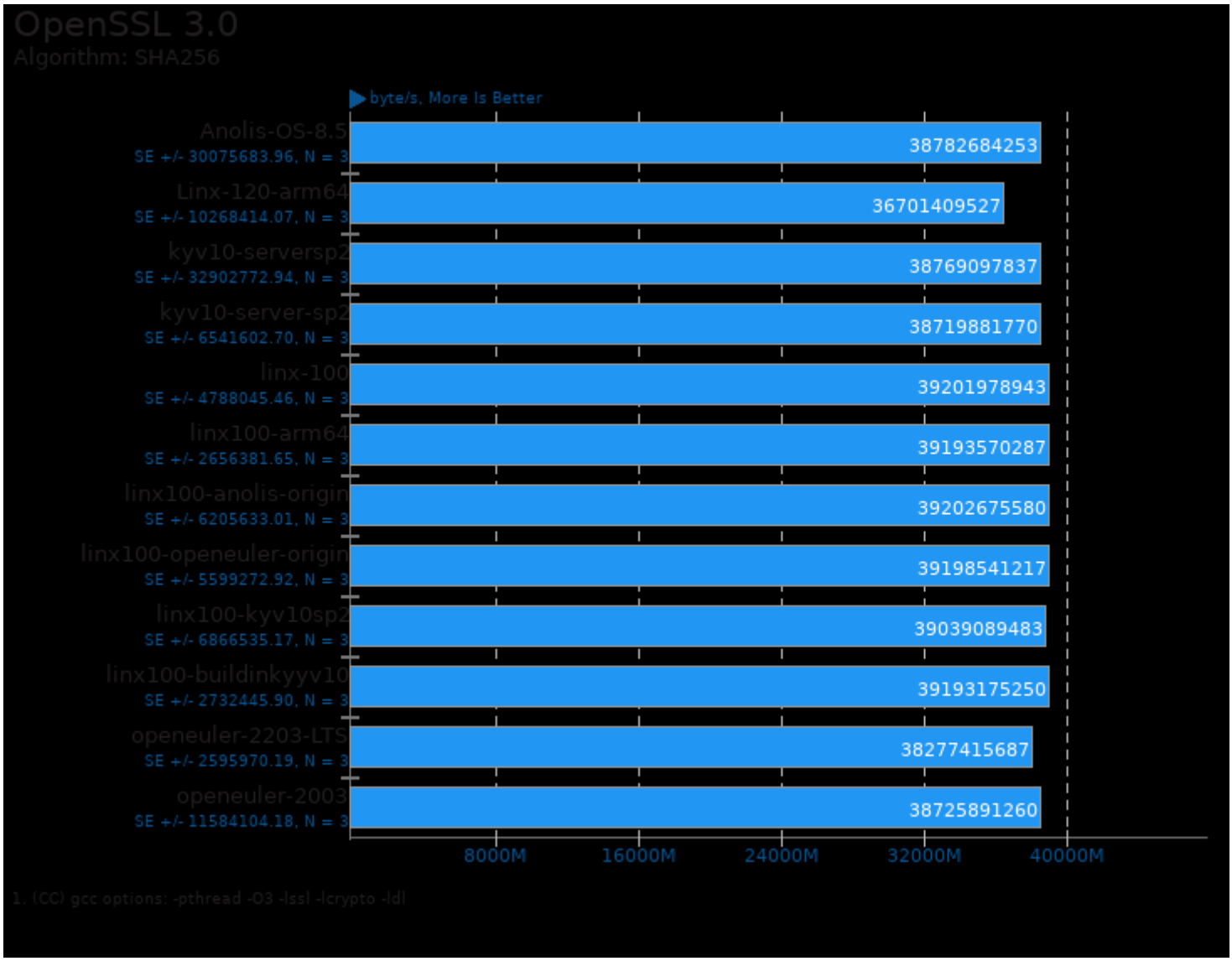

Flexible IO Tester 3.29
Type: Random Write - IO Engine: Linux AIOO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 0.88, N = 3
Linx-120-arm64
SE +/- 1.45, N = 3
4 x 16384 MB DDR4-2933MT
SE +/- 1.86, N = 3
kyv10-serversp2
SE +/- 0.58, N = 3
kyv10-server-sp2
SE +/- 0.33, N = 3
linx-100
linx100-arm64
SE +/- 0.67, N = 3
linx100-anolis-origin
SE +/- 0.67, N = 3
linx100-openeuler-origin
SE +/- 0.67, N = 3
linx100-kyv10sp2
linx100-buildinkyyv10
SE +/- 0.33, N = 3
openeuler-22-03-LTS
SE +/- 1.73, N = 15
openeuler-2203-LTS
SE +/- 0.33, N = 3
openeuler-20.03
SE +/- 0.67, N = 3
openeuler-2003
SE +/- 1.00, N = 3
-lrt
175
168
179
179
178
172
170
180
171
174
171
155
166
175
171
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

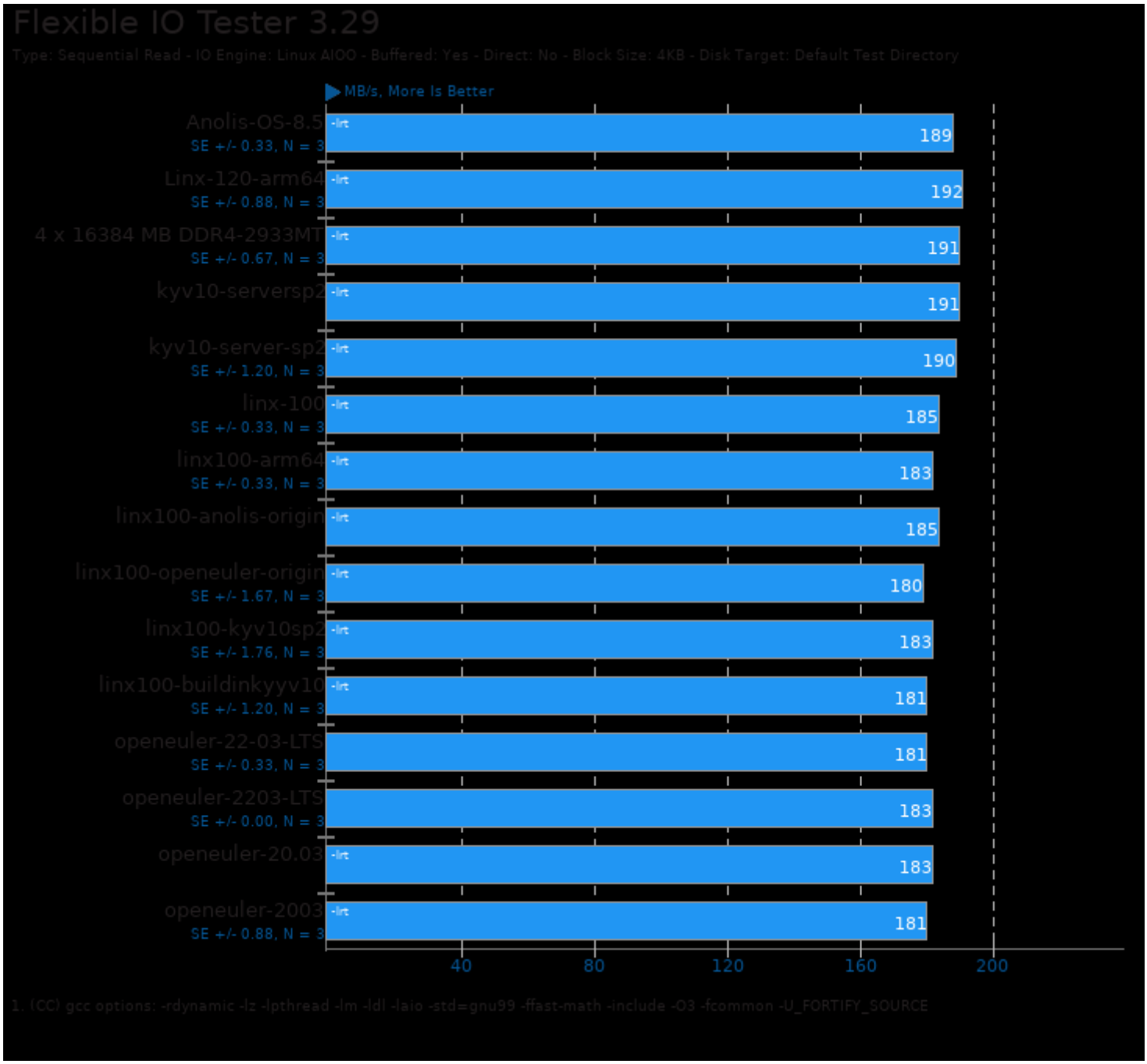

Flexible IO Tester 3.29
Type: Random Write - IO Engine: Linux AIOO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
Anolis-OS-8.5
SE +/- 202.76, N = 3
44733
Linx-120-arm64
SE +/- 360.56, N = 3
43100
4 x 16384 MB DDR4-2933MT
SE +/- 491.03, N = 3
45667
kyv10-serversp2
SE +/- 100.00, N = 3
45800
kyv10-server-sp2
SE +/- 88.19, N = 3
45633
linx-100
SE +/- 88.19, N = 3
44033
linx100-arm64
SE +/- 152.75, N = 3
43600
linx100-anolis-origin
SE +/- 133.33, N = 3
46067
linx100-openeuler-origin
SE +/- 166.67, N = 3
43767
linx100-kyv10sp2
SE +/- 66.67, N = 3
44533
linx100-buildinkyyv10
SE +/- 100.00, N = 3
43600
openeuler-22-03-LTS
SE +/- 446.38, N = 15
39780
openeuler-2203-LTS
SE +/- 120.19, N = 3
42567
openeuler-20.03
SE +/- 120.19, N = 3
44933
openeuler-2003
SE +/- 218.58, N = 3
43767
10K
20K
30K
40K
50K
1. (CC) gcc options: -rdynamic -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

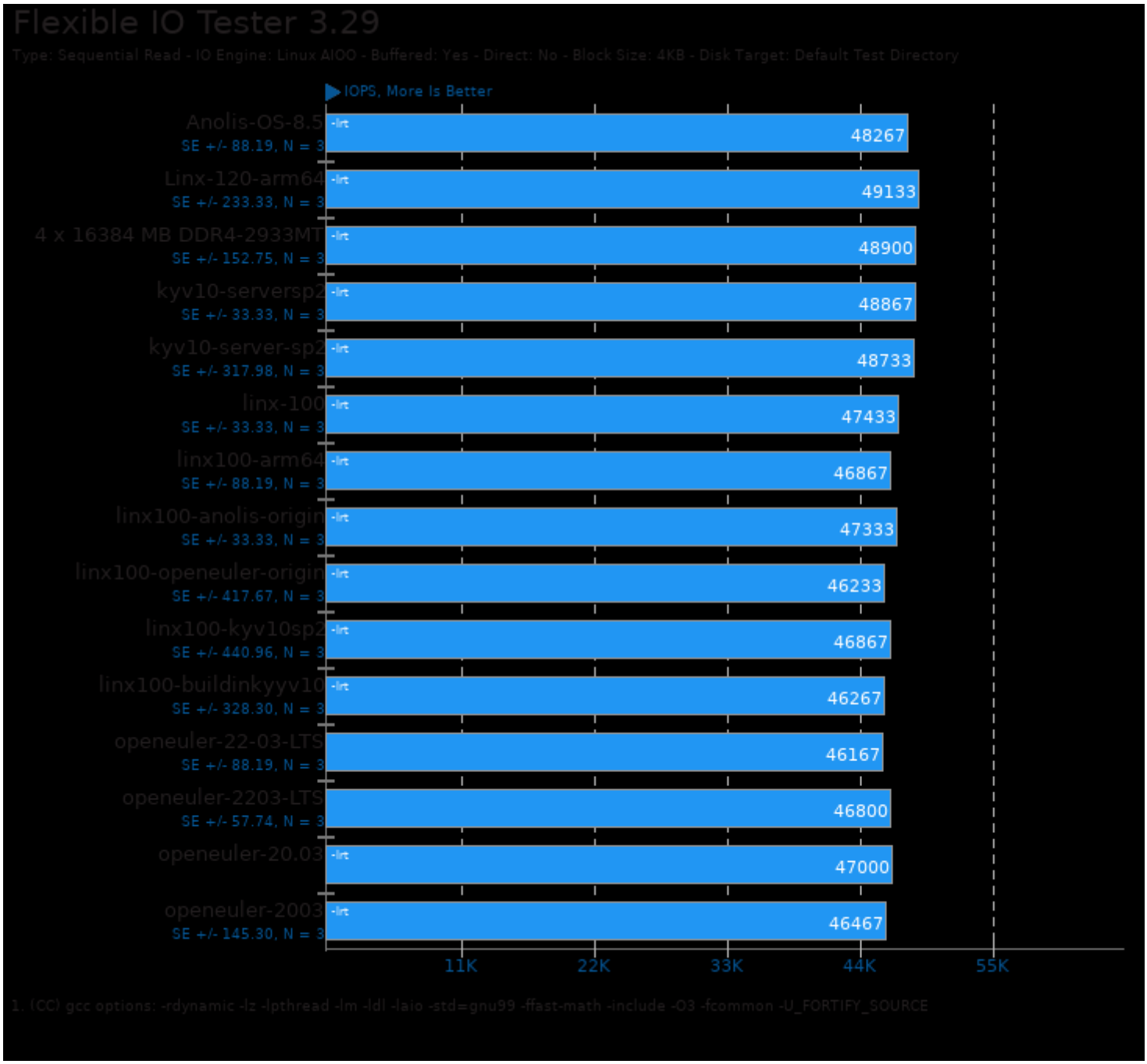

Stream 2013-01-17
Type: Copy
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 278.92, N = 5
66098.5
Linx-120-arm64
SE +/- 255.59, N = 5
65959.9
kyv10-serversp2
SE +/- 132.95, N = 5
71425.2
kyv10-server-sp2
SE +/- 184.40, N = 5
71599.8
linx-100
SE +/- 230.35, N = 5
66672.5
linx100-arm64
SE +/- 200.96, N = 5
66180.1
linx100-anolis-origin
SE +/- 577.51, N = 5
66633.7
linx100-openeuler-origin
SE +/- 586.07, N = 5
66010.8
linx100-kyv10sp2
SE +/- 101.21, N = 5
67119.8
linx100-buildinkyyv10
SE +/- 292.14, N = 5
66445.9
openeuler-2203-LTS
SE +/- 308.69, N = 5
66568.1
openeuler-2003
SE +/- 17.48, N = 5
68772.8
15K
30K
45K
60K
75K
1. (CC) gcc options: -O3 -march=native -fopenmp

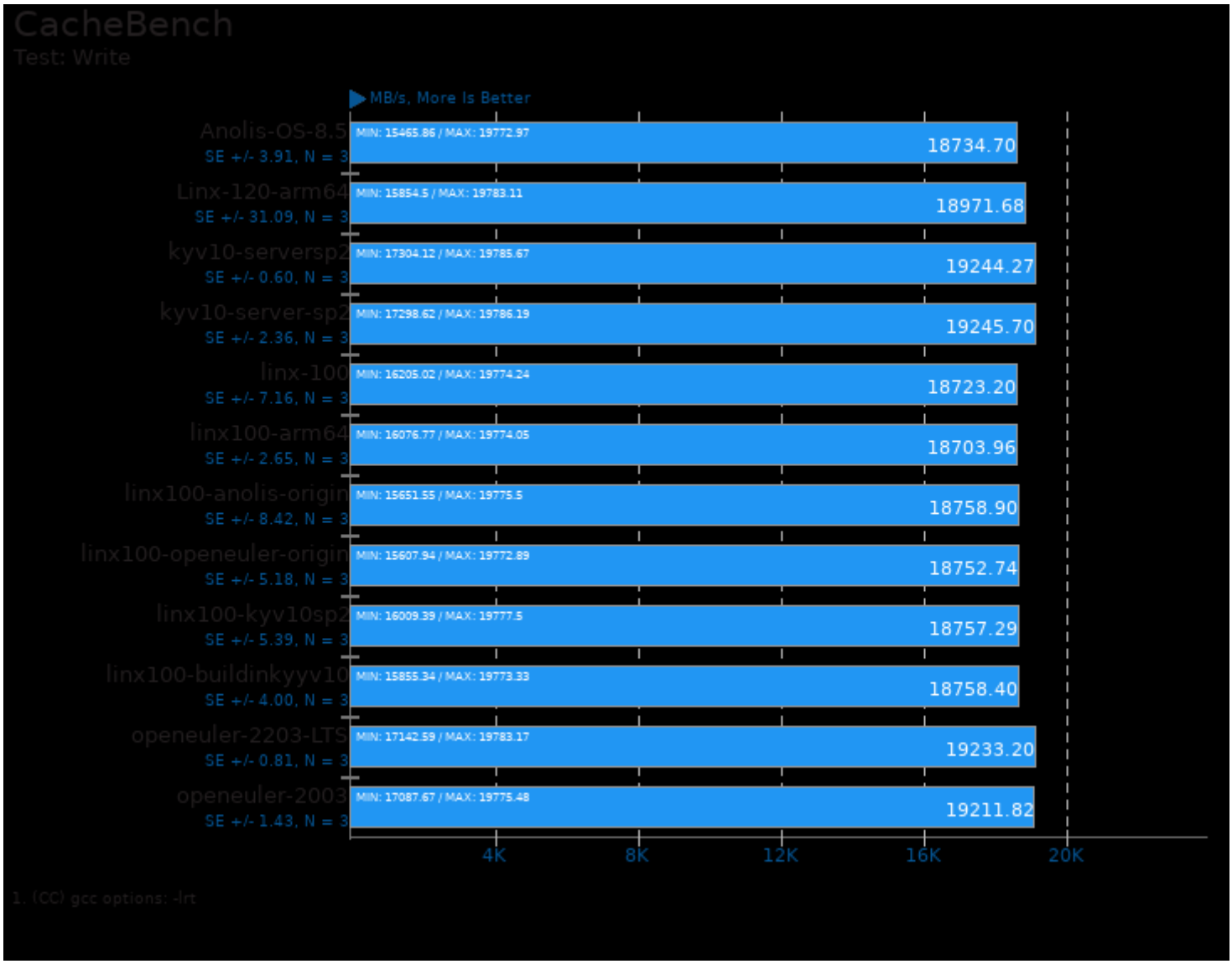

Flexible IO Tester 3.29
Type: Sequential Write - IO Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
Anolis-OS-8.5
SE +/- 375.65, N = 3
44567
Linx-120-arm64
SE +/- 543.71, N = 4
44525
4 x 16384 MB DDR4-2933MT
SE +/- 145.30, N = 3
46967
kyv10-serversp2
SE +/- 202.76, N = 3
47167
kyv10-server-sp2
SE +/- 305.51, N = 3
46900
linx-100
SE +/- 57.74, N = 3
45400
linx100-arm64
SE +/- 176.38, N = 3
44233
linx100-anolis-origin
SE +/- 145.30, N = 3
46833
linx100-openeuler-origin
SE +/- 66.67, N = 3
45267
linx100-kyv10sp2
46600
linx100-buildinkyyv10
SE +/- 487.13, N = 4
44725
openeuler-22-03-LTS
SE +/- 794.25, N = 15
43560
openeuler-2203-LTS
SE +/- 305.51, N = 3
43800
openeuler-20.03
SE +/- 145.30, N = 3
46033
openeuler-2003
SE +/- 384.42, N = 3
45467
10K
20K
30K
40K
50K
1. (CC) gcc options: -rdynamic -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

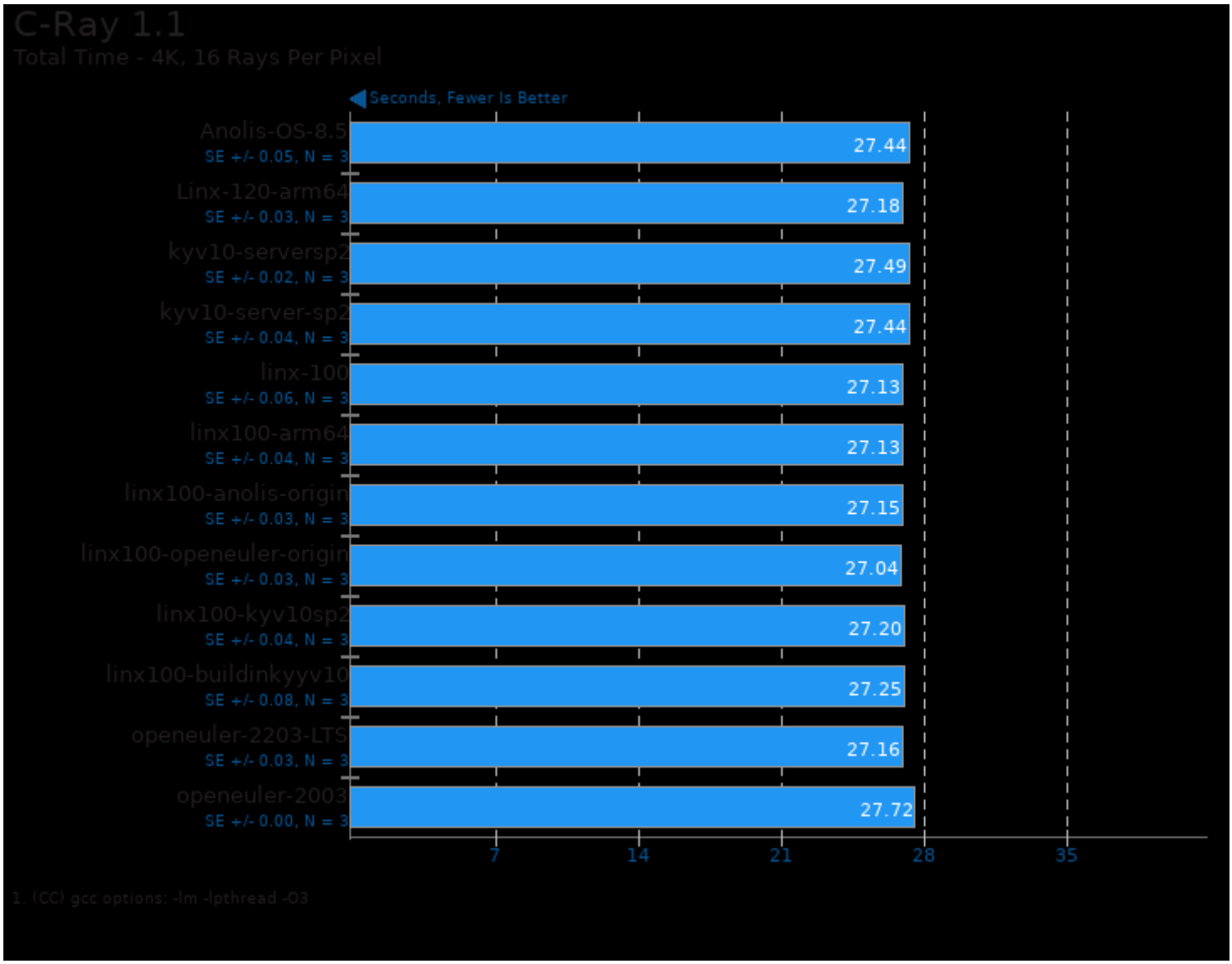

Flexible IO Tester 3.29
Type: Sequential Write - IO Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 1.45, N = 3
174
Linx-120-arm64
SE +/- 2.12, N = 4
174
4 x 16384 MB DDR4-2933MT
SE +/- 0.67, N = 3
183
kyv10-serversp2
SE +/- 0.58, N = 3
184
kyv10-server-sp2
SE +/- 1.20, N = 3
183
linx-100
SE +/- 0.33, N = 3
178
linx100-arm64
173
linx100-anolis-origin
183
linx100-openeuler-origin
177
linx100-kyv10sp2
182
linx100-buildinkyyv10
SE +/- 1.97, N = 4
175
openeuler-22-03-LTS
SE +/- 3.10, N = 15
170
openeuler-2203-LTS
SE +/- 1.20, N = 3
171
openeuler-20.03
180
openeuler-2003
SE +/- 1.33, N = 3
178
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

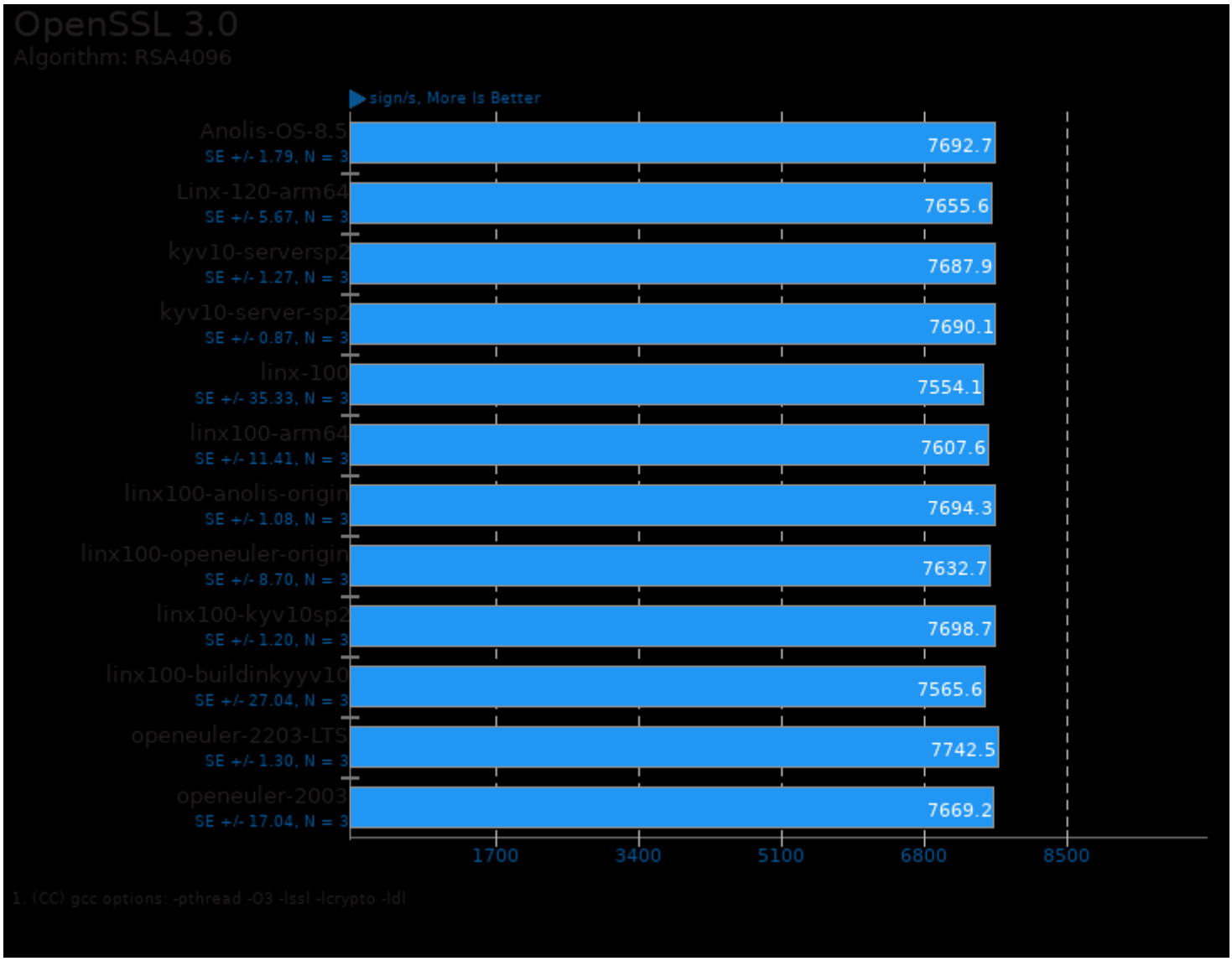

OpenSSL 3.0
Algorithm: SHA256
byte/s, More Is Better
Anolis-OS-8.5
SE +/- 30075683.96, N = 3
38782684253
Linx-120-arm64
SE +/- 10268414.07, N = 3
36701409527
kyv10-serversp2
SE +/- 32902772.94, N = 3
38769097837
kyv10-server-sp2
SE +/- 6541602.70, N = 3
38719881770
linx-100
SE +/- 4788045.46, N = 3
39201978943
linx100-arm64
SE +/- 2656381.65, N = 3
39193570287
linx100-anolis-origin
SE +/- 6205633.01, N = 3
39202675580
linx100-openeuler-origin
SE +/- 5599272.92, N = 3
39198541217
linx100-kyv10sp2
SE +/- 6866535.17, N = 3
39039089483
linx100-buildinkyyv10
SE +/- 2732445.90, N = 3
39193175250
openeuler-2203-LTS
SE +/- 2595970.19, N = 3
38277415687
openeuler-2003
SE +/- 11584104.18, N = 3
38725891260
8000M
16000M
24000M
32000M
40000M
1. (CC) gcc options: -pthread -O3 -lssl -lcrypto -ldl

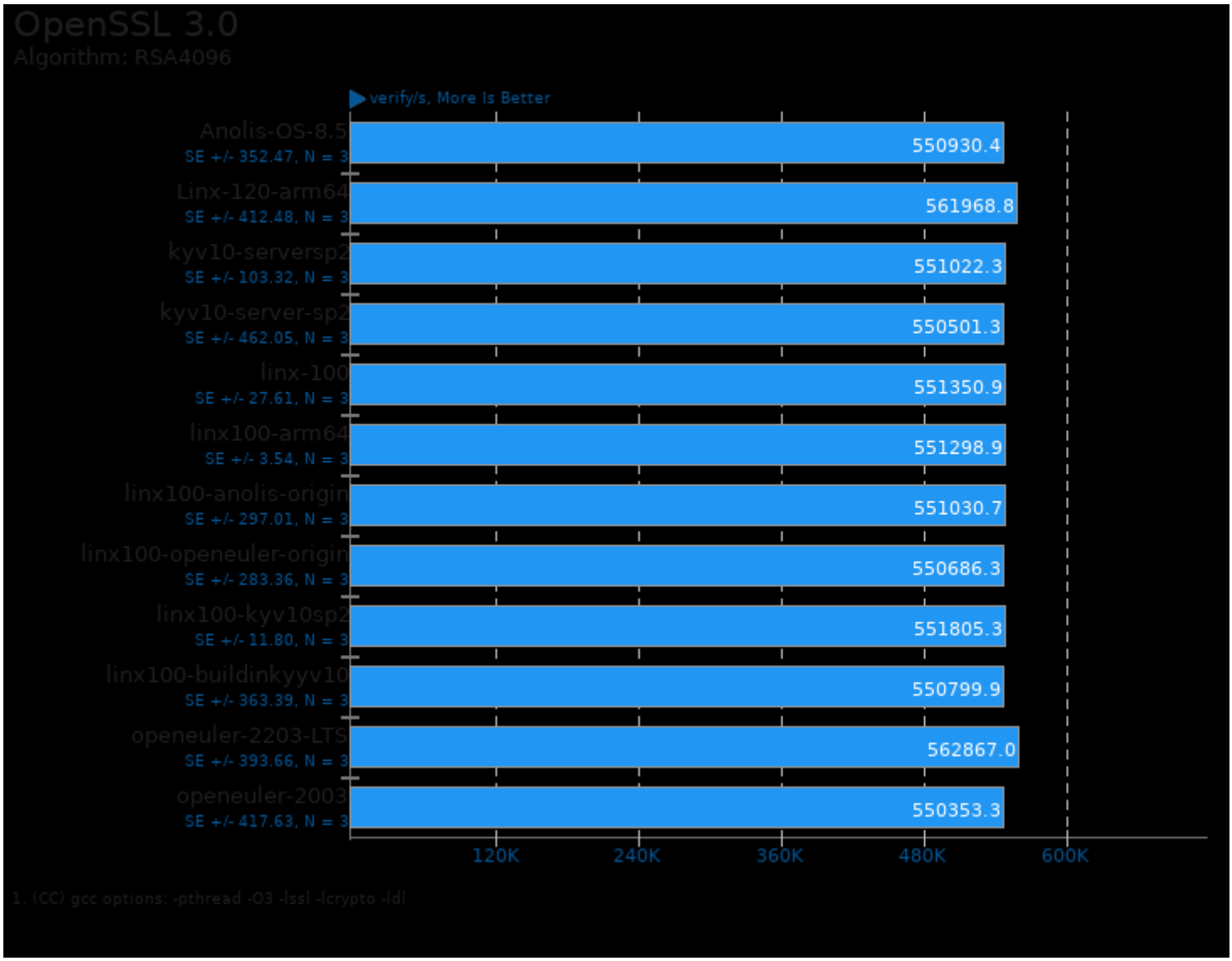

Flexible IO Tester 3.29
Type: Sequential Read - IO Engine: Linux AIOO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 0.33, N = 3
189
Linx-120-arm64
SE +/- 0.88, N = 3
192
4 x 16384 MB DDR4-2933MT
SE +/- 0.67, N = 3
191
kyv10-serversp2
191
kyv10-server-sp2
SE +/- 1.20, N = 3
190
linx-100
SE +/- 0.33, N = 3
185
linx100-arm64
SE +/- 0.33, N = 3
183
linx100-anolis-origin
185
linx100-openeuler-origin
SE +/- 1.67, N = 3
180
linx100-kyv10sp2
SE +/- 1.76, N = 3
183
linx100-buildinkyyv10
SE +/- 1.20, N = 3
181
openeuler-22-03-LTS
SE +/- 0.33, N = 3
181
openeuler-2203-LTS
SE +/- 0.00, N = 3
183
openeuler-20.03
183
openeuler-2003
SE +/- 0.88, N = 3
181
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

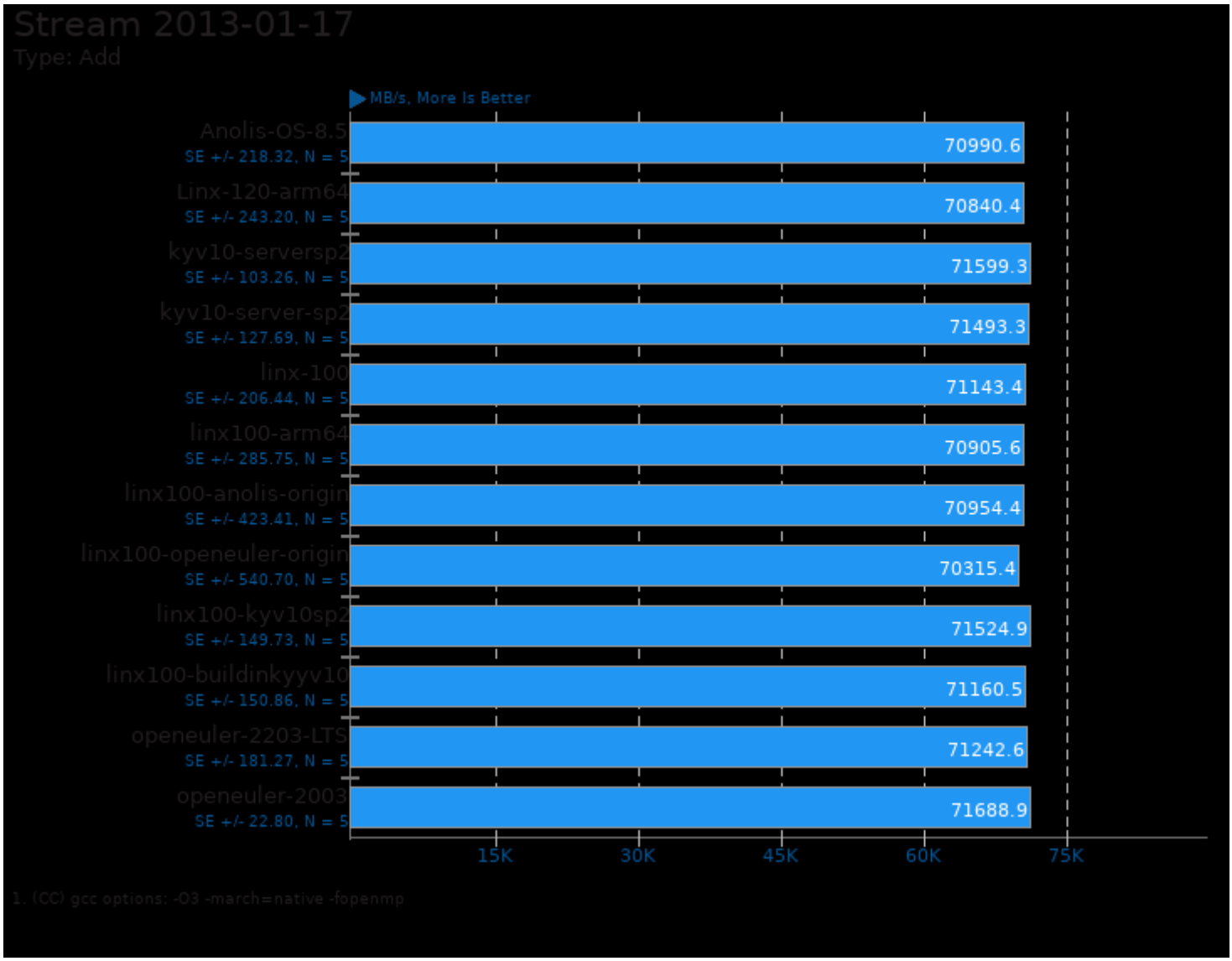

Flexible IO Tester 3.29
Type: Sequential Read - IO Engine: Linux AIO0 - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
Anolis-OS-8.5
SE +/- 88.19, N = 3
48267
Linx-120-arm64
SE +/- 233.33, N = 3
49133
4 x 16384 MB DDR4-2933MT
SE +/- 152.75, N = 3
48900
kyv10-serversp2
SE +/- 33.33, N = 3
48867
kyv10-server-sp2
SE +/- 317.98, N = 3
48733
linx-100
SE +/- 33.33, N = 3
47433
linx100-arm64
SE +/- 88.19, N = 3
46867
linx100-anolis-origin
SE +/- 33.33, N = 3
47333
linx100-openeuler-origin
SE +/- 417.67, N = 3
46233
linx100-kyv10sp2
SE +/- 440.96, N = 3
46867
linx100-buildinkyyv10
SE +/- 328.30, N = 3
46267
openeuler-22-03-LTS
SE +/- 88.19, N = 3
46167
openeuler-2203-LTS
SE +/- 57.74, N = 3
46800
openeuler-20.03
47000
openeuler-2003
SE +/- 145.30, N = 3
46467
11K
22K
33K
44K
55K
1. (CC) gcc options: -rdynamic -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

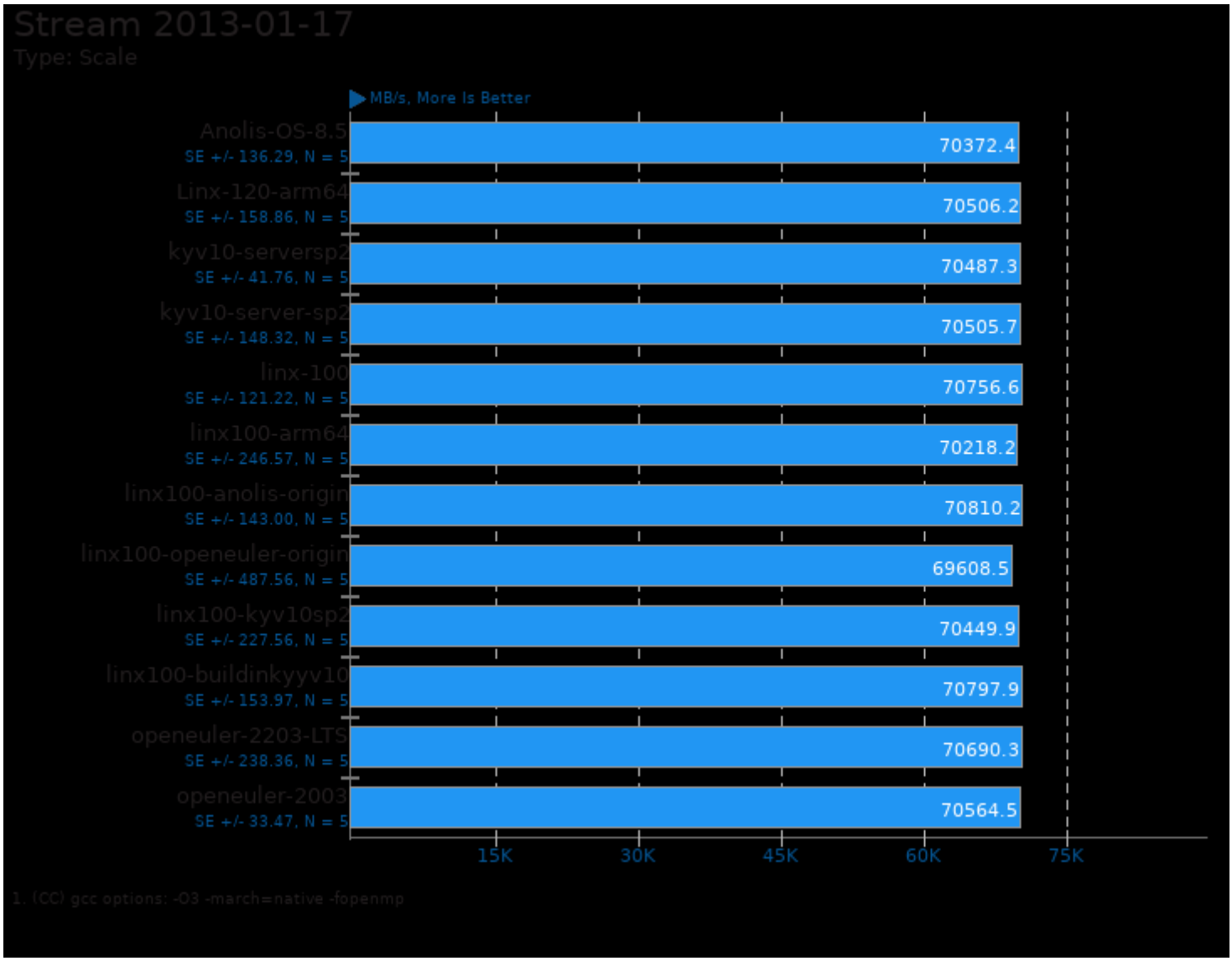

CacheBench
Test: Write
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 3.91, N = 3
MIN: 15465.86 / MAX: 19772.97
18734.70
Linx-120-arm64
SE +/- 31.09, N = 3
MIN: 15854.5 / MAX: 19783.11
18971.68
kyv10-serversp2
SE +/- 0.60, N = 3
MIN: 17304.12 / MAX: 19785.67
19244.27
kyv10-server-sp2
SE +/- 2.36, N = 3
MIN: 17298.62 / MAX: 19786.19
19245.70
linx-100
SE +/- 7.16, N = 3
MIN: 16205.02 / MAX: 19774.24
18723.20
linx100-arm64
SE +/- 2.65, N = 3
MIN: 16076.77 / MAX: 19774.05
18703.96
linx100-anolis-origin
SE +/- 8.42, N = 3
MIN: 15651.55 / MAX: 19775.5
18758.90
linx100-openeuler-origin
SE +/- 5.18, N = 3
MIN: 15607.94 / MAX: 19772.89
18752.74
linx100-kyv10sp2
SE +/- 5.39, N = 3
MIN: 16009.39 / MAX: 19777.5
18757.29
linx100-buildinkyyv10
SE +/- 4.00, N = 3
MIN: 15855.34 / MAX: 19773.33
18758.40
openeuler-2203-LTS
SE +/- 0.81, N = 3
MIN: 17142.59 / MAX: 19783.17
19233.20
openeuler-2003
SE +/- 1.43, N = 3
MIN: 17087.67 / MAX: 19775.48
19211.82
4K
8K
12K
16K
20K
1. (CC) gcc options: -lrt

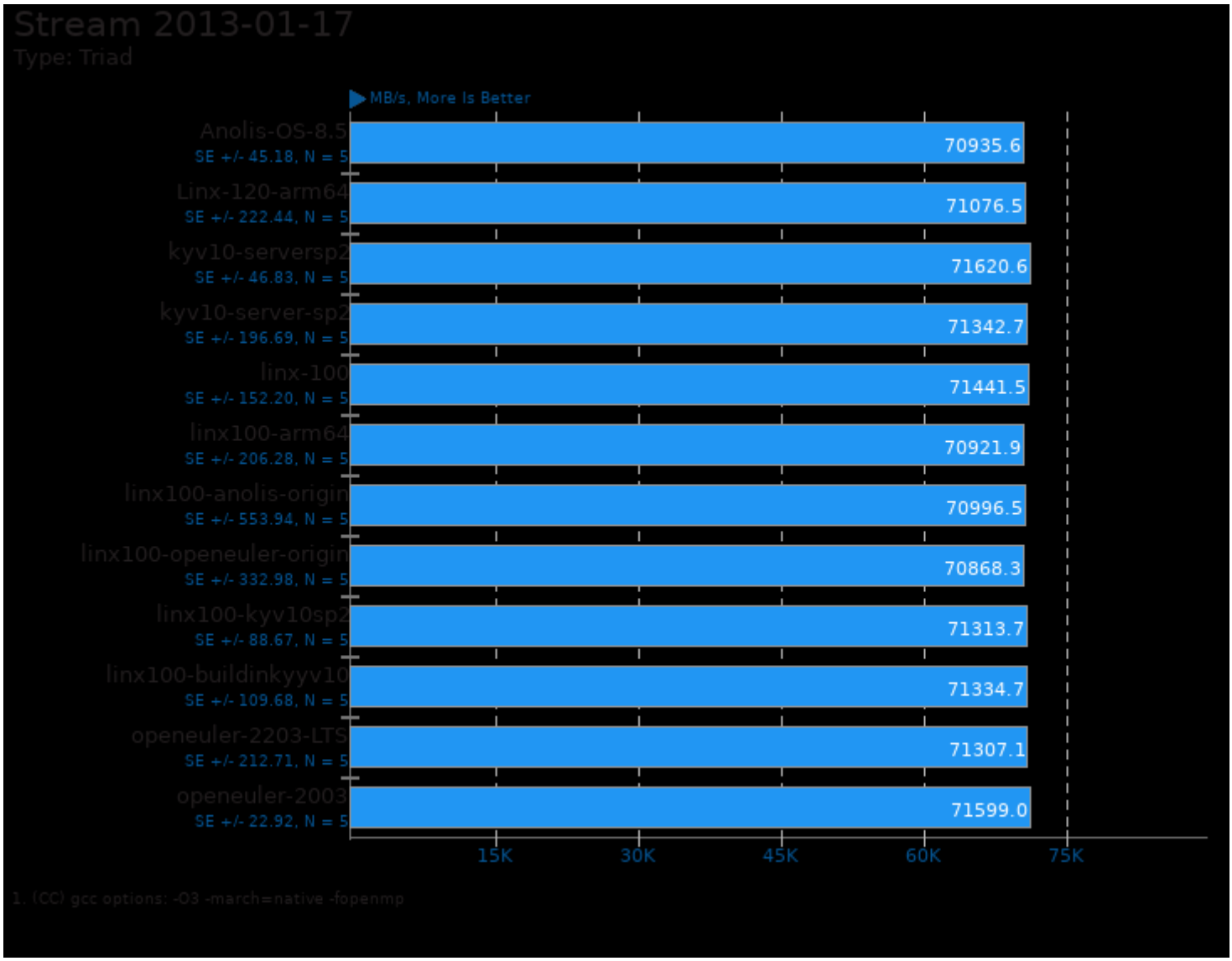

C-Ray 1.1
Total Time - 4K, 16 Rays Per Pixel
Seconds, Fewer Is Better
Anolis-OS-8.5
SE +/- 0.05, N = 3
27.44
Linx-120-arm64
SE +/- 0.03, N = 3
27.18
kyv10-serversp2
SE +/- 0.02, N = 3
27.49
kyv10-server-sp2
SE +/- 0.04, N = 3
27.44
linx-100
SE +/- 0.06, N = 3
27.13
linx100-arm64
SE +/- 0.04, N = 3
27.13
linx100-anolis-origin
SE +/- 0.03, N = 3
27.15
linx100-openeuler-origin
SE +/- 0.03, N = 3
27.04
linx100-kyv10sp2
SE +/- 0.04, N = 3
27.20
linx100-buildinkyyv10
SE +/- 0.08, N = 3
27.25
openeuler-2203-LTS
SE +/- 0.03, N = 3
27.16
openeuler-2003
SE +/- 0.00, N = 3
27.72
7
14
21
28
35
1. (CC) gcc options: -lm -lpthread -O3

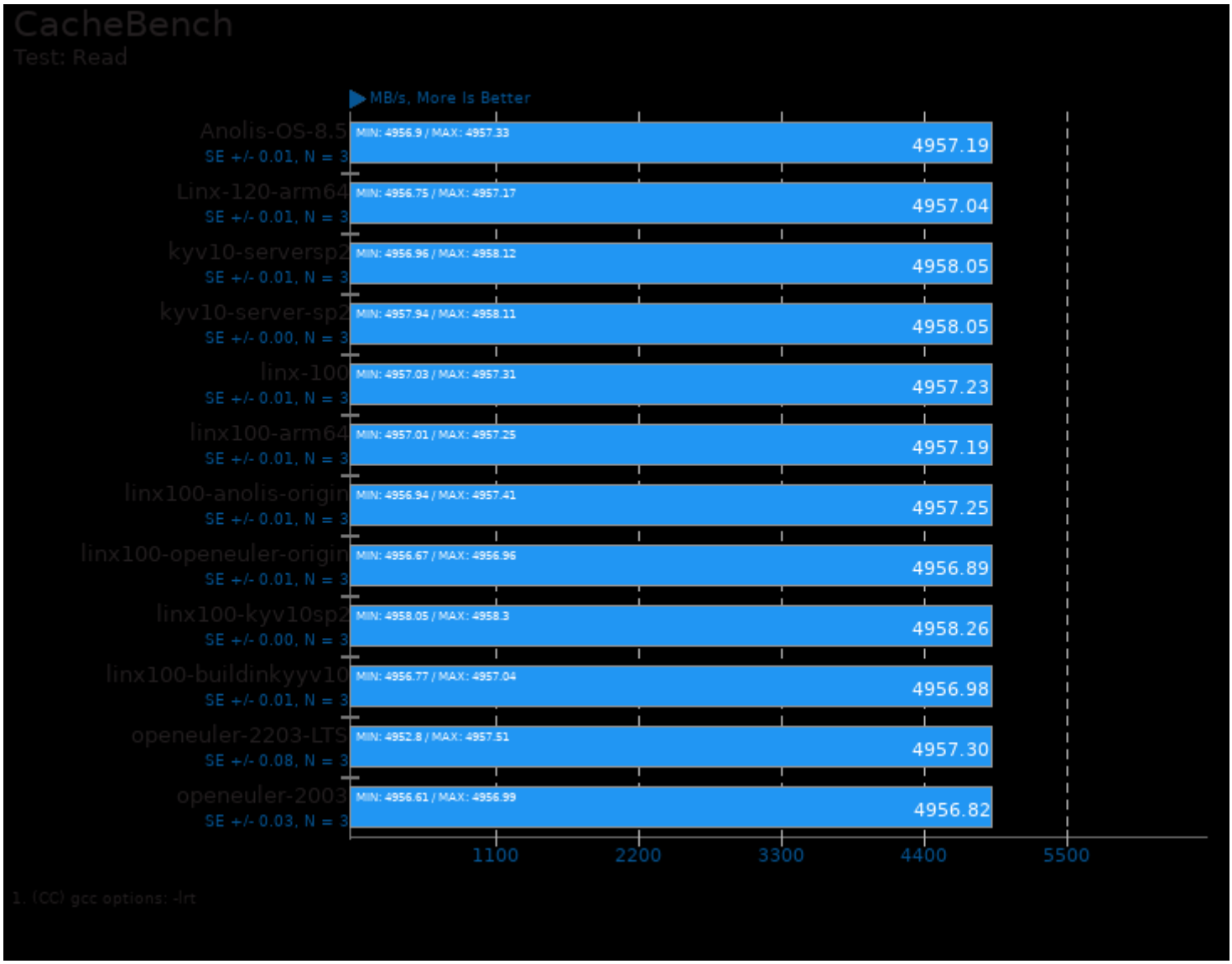

OpenSSL 3.0
Algorithm: RSA4096
sign/s, More Is Better
Anolis-OS-8.5
SE +/- 1.79, N = 3
7692.7
Linx-120-arm64
SE +/- 5.67, N = 3
7655.6
kyv10-serversp2
SE +/- 1.27, N = 3
7687.9
kyv10-server-sp2
SE +/- 0.87, N = 3
7690.1
linx-100
SE +/- 35.33, N = 3
7554.1
linx100-arm64
SE +/- 11.41, N = 3
7607.6
linx100-anolis-origin
SE +/- 1.08, N = 3
7694.3
linx100-openeuler-origin
SE +/- 8.70, N = 3
7632.7
linx100-kyv10sp2
SE +/- 1.20, N = 3
7698.7
linx100-buildinkyyv10
SE +/- 27.04, N = 3
7565.6
openeuler-2203-LTS
SE +/- 1.30, N = 3
7742.5
openeuler-2003
SE +/- 17.04, N = 3
7669.2
1700
3400
5100
6800
8500
1. (CC) gcc options: -pthread -O3 -lssl -lcrypto -ldl


OpenSSL 3.0
Algorithm: RSA4096
verify/s, More Is Better
Anolis-OS-8.5
SE +/- 352.47, N = 3
550930.4
Linx-120-arm64
SE +/- 412.48, N = 3
561968.8
kyv10-serversp2
SE +/- 103.32, N = 3
551022.3
kyv10-server-sp2
SE +/- 462.05, N = 3
550501.3
linx-100
SE +/- 27.61, N = 3
551350.9
linx100-arm64
SE +/- 3.54, N = 3
551298.9
linx100-anolis-origin
SE +/- 297.01, N = 3
551030.7
linx100-openeuler-origin
SE +/- 283.36, N = 3
550686.3
linx100-kyv10sp2
SE +/- 11.80, N = 3
551805.3
linx100-buildinkyyv10
SE +/- 363.39, N = 3
550799.9
openeuler-2203-LTS
SE +/- 393.66, N = 3
562867.0
openeuler-2003
SE +/- 417.63, N = 3
550353.3
120K
240K
360K
480K
600K
1. (CC) gcc options: -pthread -O3 -lssl -lcrypto -ldl

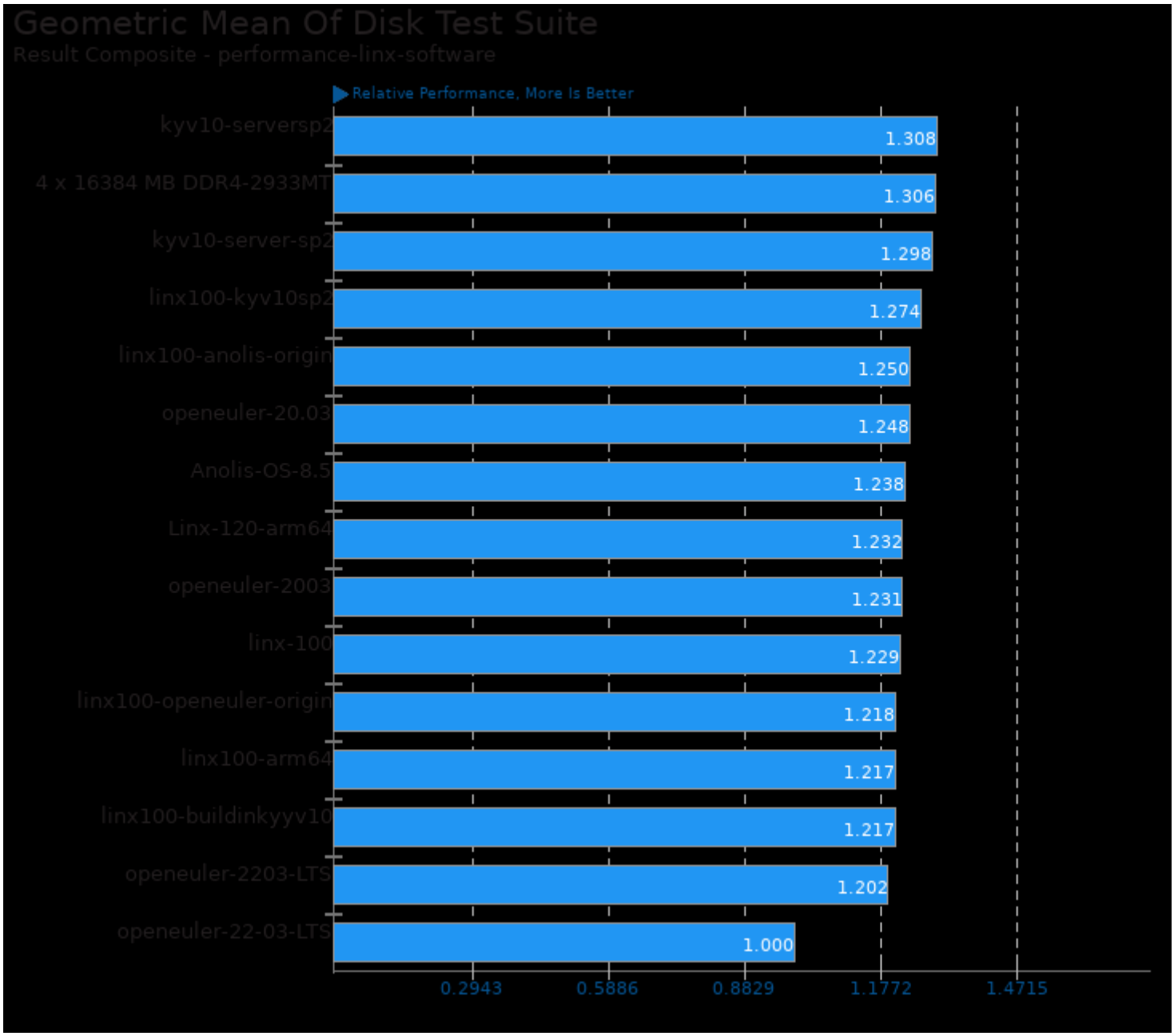

Stream 2013-01-17
Type: Add
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 218.32, N = 5
70990.6
Linx-120-arm64
SE +/- 243.20, N = 5
70840.4
kyv10-serversp2
SE +/- 103.26, N = 5
71599.3
kyv10-server-sp2
SE +/- 127.69, N = 5
71493.3
linx-100
SE +/- 206.44, N = 5
71143.4
linx100-arm64
SE +/- 285.75, N = 5
70905.6
linx100-anolis-origin
SE +/- 423.41, N = 5
70954.4
linx100-openeuler-origin
SE +/- 540.70, N = 5
70315.4
linx100-kyv10sp2
SE +/- 149.73, N = 5
71524.9
linx100-buildinkyyv10
SE +/- 150.86, N = 5
71160.5
openeuler-2203-LTS
SE +/- 181.27, N = 5
71242.6
openeuler-2003
SE +/- 22.80, N = 5
71688.9
15K
30K
45K
60K
75K
1. (CC) gcc options: -O3 -march=native -fopenmp


Stream 2013-01-17
Type: Scale
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 136.29, N = 5
70372.4
Linx-120-arm64
SE +/- 158.86, N = 5
70506.2
kyv10-serversp2
SE +/- 41.76, N = 5
70487.3
kyv10-server-sp2
SE +/- 148.32, N = 5
70505.7
linx-100
SE +/- 121.22, N = 5
70756.6
linx100-arm64
SE +/- 246.57, N = 5
70218.2
linx100-anolis-origin
SE +/- 143.00, N = 5
70810.2
linx100-openeuler-origin
SE +/- 487.56, N = 5
69608.5
linx100-kyv10sp2
SE +/- 227.56, N = 5
70449.9
linx100-buildinkyyv10
SE +/- 153.97, N = 5
70797.9
openeuler-2203-LTS
SE +/- 238.36, N = 5
70690.3
openeuler-2003
SE +/- 33.47, N = 5
70564.5
15K
30K
45K
60K
75K
1. (CC) gcc options: -O3 -march=native -fopenmp


Stream 2013-01-17
Type: Triad
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 45.18, N = 5
70935.6
Linx-120-arm64
SE +/- 222.44, N = 5
71076.5
kyv10-serversp2
SE +/- 46.83, N = 5
71620.6
kyv10-server-sp2
SE +/- 196.69, N = 5
71342.7
linx-100
SE +/- 152.20, N = 5
71441.5
linx100-arm64
SE +/- 206.28, N = 5
70921.9
linx100-anolis-origin
SE +/- 553.94, N = 5
70996.5
linx100-openeuler-origin
SE +/- 332.98, N = 5
70868.3
linx100-kyv10sp2
SE +/- 88.67, N = 5
71313.7
linx100-buildinkyyv10
SE +/- 109.68, N = 5
71334.7
openeuler-2203-LTS
SE +/- 212.71, N = 5
71307.1
openeuler-2003
SE +/- 22.92, N = 5
71599.0
15K
30K
45K
60K
75K
1. (CC) gcc options: -O3 -march=native -fopenmp


CacheBench
Test: Read
MB/s, More Is Better
Anolis-OS-8.5
SE +/- 0.01, N = 3
MIN: 4956.9 / MAX: 4957.33
4957.19
Linx-120-arm64
SE +/- 0.01, N = 3
MIN: 4956.75 / MAX: 4957.17
4957.04
kyv10-serversp2
SE +/- 0.01, N = 3
MIN: 4956.96 / MAX: 4958.12
4958.05
kyv10-server-sp2
SE +/- 0.00, N = 3
MIN: 4957.94 / MAX: 4958.11
4958.05
linx-100
SE +/- 0.01, N = 3
MIN: 4957.03 / MAX: 4957.31
4957.23
linx100-arm64
SE +/- 0.01, N = 3
MIN: 4957.01 / MAX: 4957.25
4957.19
linx100-anolis-origin
SE +/- 0.01, N = 3
MIN: 4956.94 / MAX: 4957.41
4957.25
linx100-openeuler-origin
SE +/- 0.01, N = 3
MIN: 4956.67 / MAX: 4956.96
4956.89
linx100-kyv10sp2
SE +/- 0.00, N = 3
MIN: 4958.05 / MAX: 4958.3
4958.26
linx100-buildinkyyv10
SE +/- 0.01, N = 3
MIN: 4956.77 / MAX: 4957.04
4956.98
openeuler-2203-LTS
SE +/- 0.08, N = 3
MIN: 4952.8 / MAX: 4957.51
4957.30
openeuler-2003
SE +/- 0.03, N = 3
MIN: 4956.61 / MAX: 4956.99
4956.82
1100
2200
3300
4400
5500
1. (CC) gcc options: -lrt

These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/fs-mark, pts/compilebench, pts/iozone, pts/dbench, pts/postmark and pts/fio

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 08:12.