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deb-xcp-ng-truenas

r10

Automated Executive Summary

TrueNAS Core iSCSCI had the most wins, coming in first place for 83% of the tests.

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

Flexible IO Tester (Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory) at 14.474x
Flexible IO Tester (Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory) at 14.462x
Flexible IO Tester (Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory) at 9.773x
Flexible IO Tester (Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory) at 9.769x
Flexible IO Tester (Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory) at 8.475x
Flexible IO Tester (Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory) at 8.468x
Flexible IO Tester (Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk

Target: Default Test Directory) at 7.927x
Flexible IO Tester (Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory) at 7.869x
Flexible IO Tester (Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory) at 4.965x
Flexible IO Tester (Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory) at 4.959x.

Test Systems:

TrueNAS Core NFS

TrueNAS Core iSCSCI

TrueNAS Scale iSCSI

TrueNAS Scale NFS

Processor: 8 x Intel Core i7-4790 (15 Cores), Motherboard: Xen HVM domU v4.13, Chipset: Intel 440FX 82441FX PMC, Memory: 1 x 4088 MB RAM, Disk: 57GB, Graphics: bochs-drmdrmfb

OS: Debian 11, Kernel: 5.10.0-8-amd64 (x86_64), Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1024x768, System Layer: Xen HVM domU 4.13

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-gcn/usr, hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: CPU Microcode: 0x28
Security Notes: itlb_multihit: KVM: Mitigation of VMX unsupported + l1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: disabled RSB filling + srbds: Unknown: Dependent on hypervisor status + tsx_async_abort: Not affected

truenascore

Processor: Intel Xeon E5-2620 v3 @ 2.40GHz (24 Cores), Motherboard: Supermicro Super Server 0123456789, Memory: 32GB, Disk: 64863GB

OS: FreeBSD, Kernel: 12.2-RELEASE-p10 (x86_64), Compiler: Clang 10.0.1, File-System: zfs

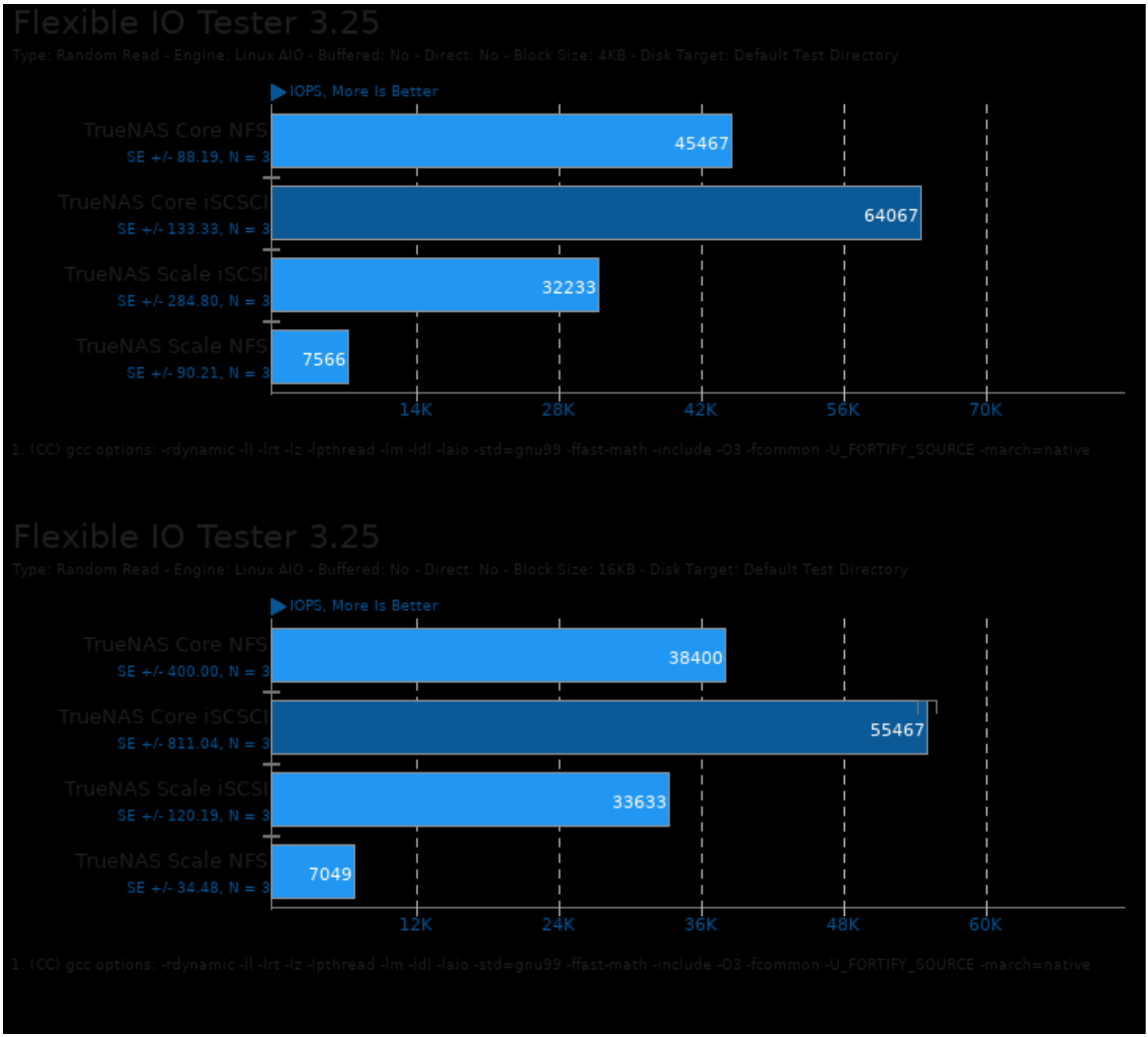
Security Notes: KPTI

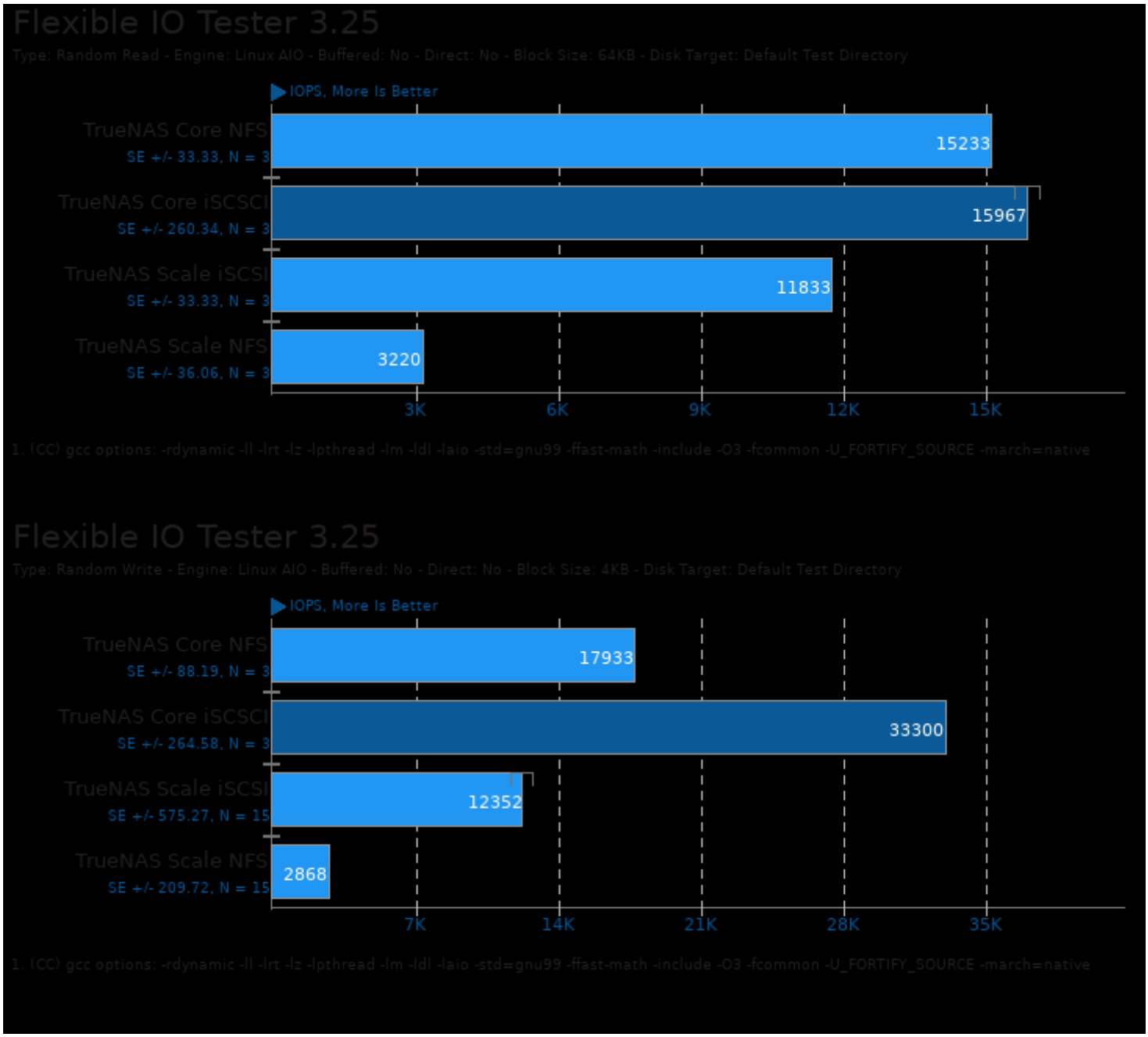
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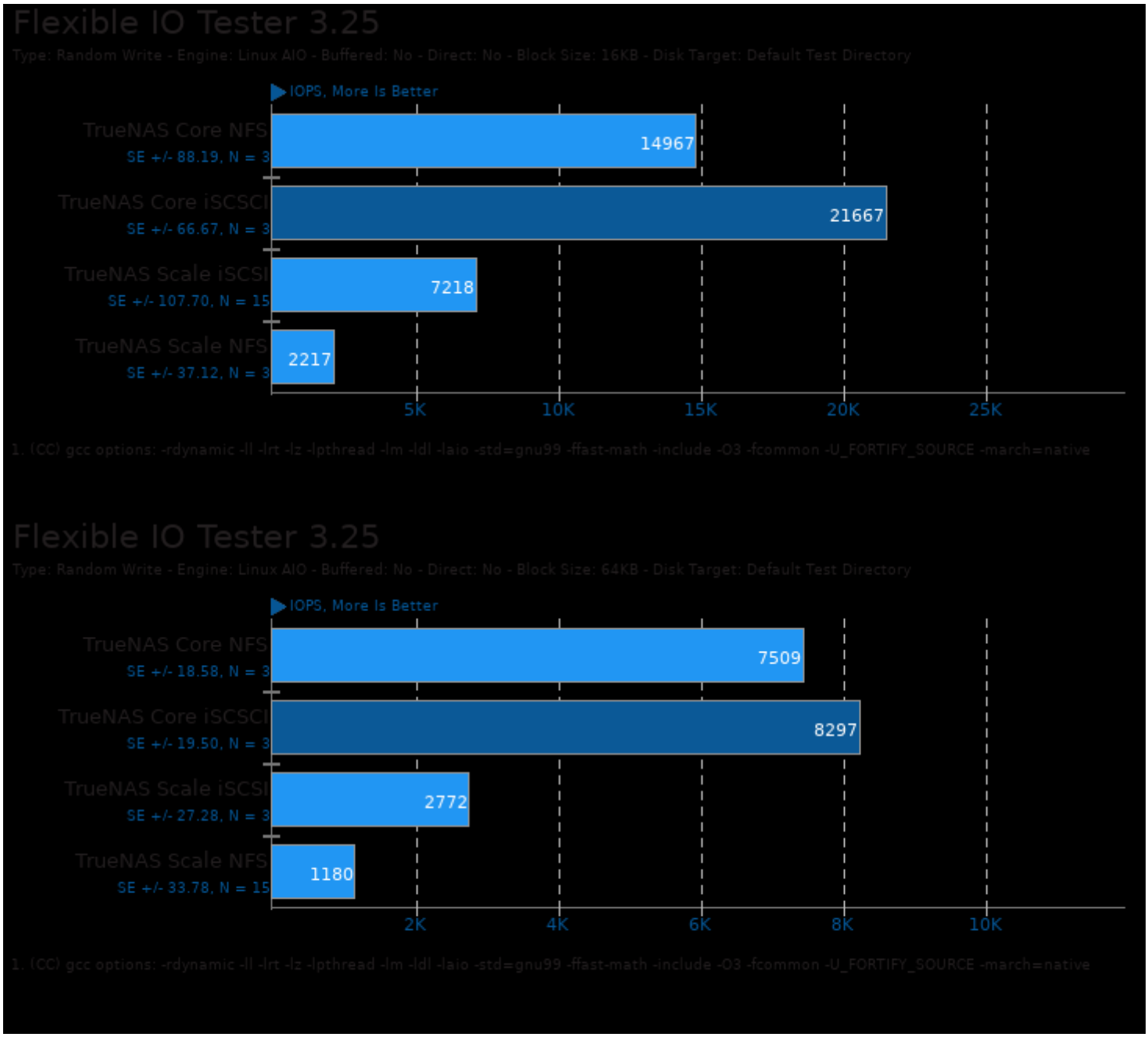
	TrueNAS Core NFS	TrueNAS Core iSCSCI	TrueNAS Scale iSCSI	TrueNAS Scale NFS	truenascore
Flexible IO Tester - Rand Read - Linux AIO - No - No - 4KB (IOPS)	45467	**64067**	32233	**7566**	
Normalized	70.97%	100%	50.31%	11.81%	
Standard Deviation	0.3%	0.4%	1.5%	2.1%	
Flexible IO Tester - Rand Read - Linux AIO - No - No - 16KB	38400	**55467**	33633	**7049**	
Normalized	69.23%	100%	60.64%	12.71%	
Standard Deviation	1.8%	2.5%	0.6%	0.8%	
Flexible IO Tester - Rand Read - Linux AIO - No - No - 64KB	15233	**15967**	11833	**3220**	
Normalized	95.4%	100%	74.11%	20.17%	
Standard Deviation	0.4%	2.8%	0.5%	1.9%	
Flexible IO Tester - Rand Write - Linux AIO - No - No - 4KB (IOPS)	17933	**33300**	12352	**2868**	
Normalized	53.85%	100%	37.09%	8.61%	
Standard Deviation	0.9%	1.4%	18%	28.3%	
Flexible IO Tester - Rand Write - Linux AIO - No - No - 16KB	14967	**21667**	7218	**2217**	
Normalized	69.08%	100%	33.31%	10.23%	
Standard Deviation	1%	0.5%	5.8%	2.9%	
Flexible IO Tester - Rand Write - Linux AIO - No - No - 64KB	7509	**8297**	2772	**1180**	
Normalized	90.5%	100%	33.41%	14.22%	
Standard Deviation	0.4%	0.4%	1.7%	11.1%	
Flexible IO Tester - Seq Read - Linux AIO - No - No - 4KB (IOPS)	70033	**93067**	52067	**6430**	
Normalized	75.25%	100%	55.95%	6.91%	
Standard Deviation	1.2%	1.8%	1%	2.8%	
Flexible IO Tester - Seq Read - Linux AIO - No - No - 16KB	53900	**63167**	44967	**15907**	
Normalized	85.33%	100%	71.19%	25.18%	
Standard Deviation	1.5%	1%	1.1%	7.7%	
Flexible IO Tester - Seq Read - Linux AIO - No - No - 64KB	15600	**16433**	11700	**4611**	
Normalized	94.93%	100%	71.2%	28.06%	
Standard Deviation		0.4%		6.6%	
Flexible IO Tester - Seq Write - Linux AIO - No - No - 4KB (IOPS)	64600	**73567**	25967	**8282**	
Normalized	87.81%	100%	35.3%	11.26%	
Standard Deviation	0.6%	0.2%	27.8%	1.2%	
Flexible IO Tester - Seq Write - Linux AIO - No - No - 16KB	**35500**	30767	12733	**7998**	
Normalized	100%	86.67%	35.87%	22.53%	
Standard Deviation		0.4%	2.3%	2%	
Flexible IO Tester - Seq Write - Linux AIO - No - No - 64KB	**8735**	6880	2761	**2078**	
Normalized	100%	78.76%	31.61%	23.79%	
Standard Deviation	0.9%	1.2%	6.6%	2.8%	

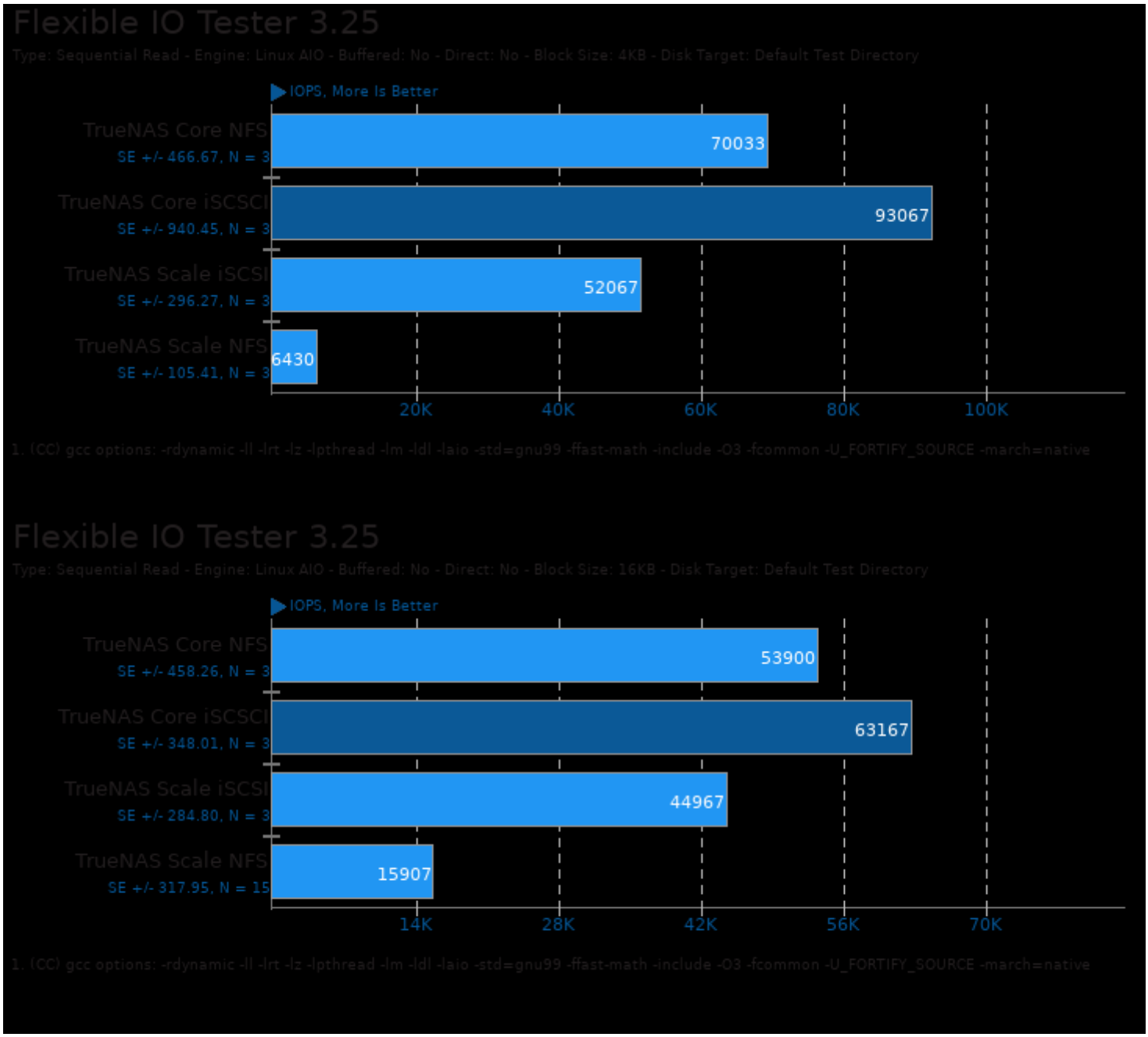
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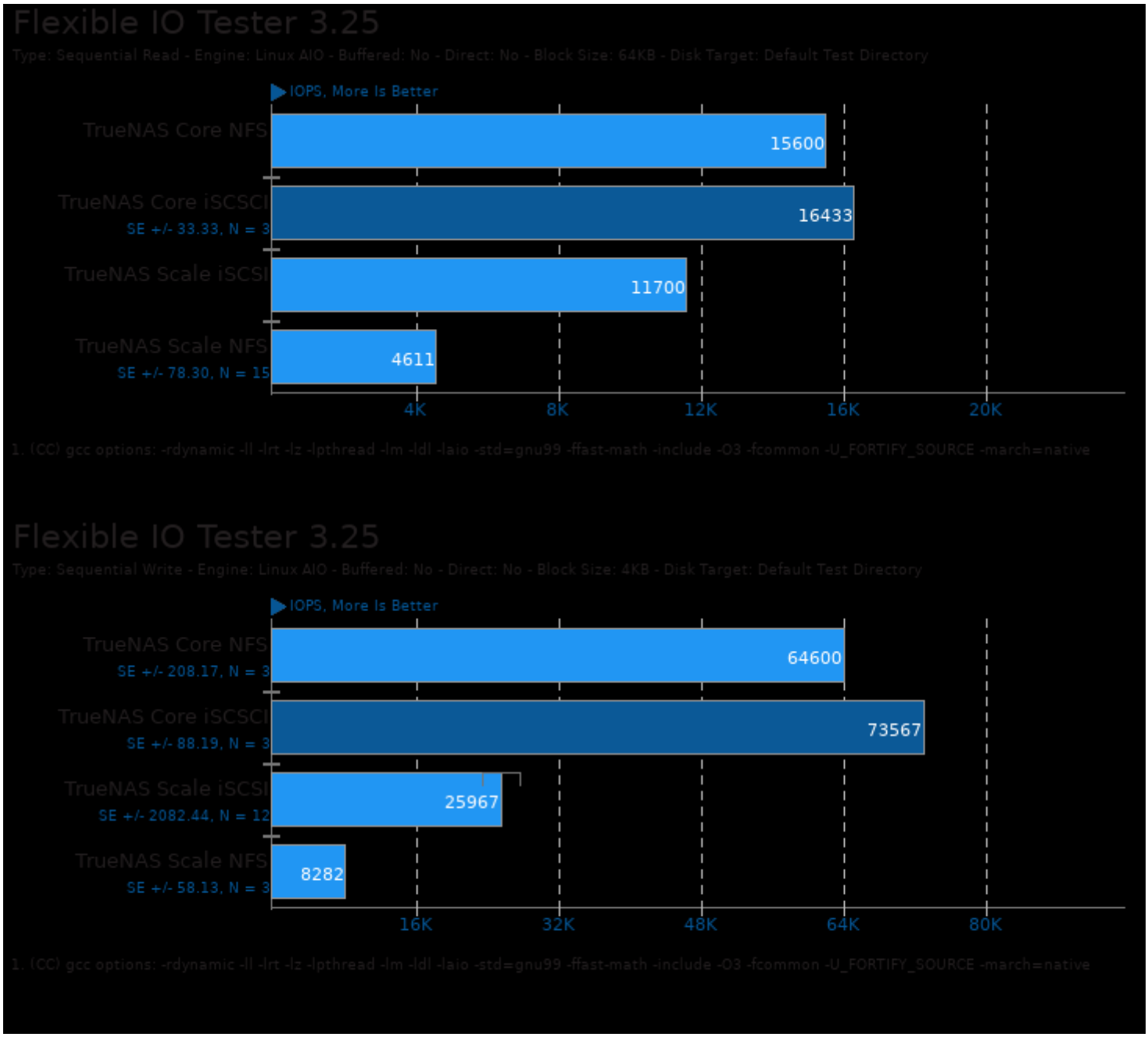
Flexible IO Tester - Rand Read - Linux AIO - No - No - 4KB (MB/s)	178	**250**	126	**29.5**
Normalized	71.2%	100%	50.4%	11.8%
Standard Deviation	0.3%	0.5%	1.4%	2%
Flexible IO Tester - Rand Read - Linux AIO - No - No - 16KB	610	**872**	526	**110**
Normalized	69.95%	100%	60.32%	12.61%
Standard Deviation	0.3%	1.7%	0.6%	
Flexible IO Tester - Rand Read - Linux AIO - No - No - 64KB	951	**998**	739	**201**
Normalized	95.29%	100%	74.05%	20.14%
Standard Deviation		2.6%	0.5%	2%
Flexible IO Tester - Rand Write - Linux AIO - No - No - 4KB (MB/s)	70.1	**130**	48.8	**11.304**
Normalized	53.92%	100%	37.54%	8.7%
Standard Deviation	0.9%	1.6%	17.9%	27.3%
Flexible IO Tester - Rand Write - Linux AIO - No - No - 16KB	234	**339**	113	**34.7**
Normalized	69.03%	100%	33.33%	10.24%
Standard Deviation	1%	0.3%	5.7%	2.8%
Flexible IO Tester - Rand Write - Linux AIO - No - No - 64KB	469	**519**	173	**74.0**
Normalized	90.37%	100%	33.33%	14.26%
Standard Deviation	0.4%	0.4%	1.8%	11%
Flexible IO Tester - Seq Read - Linux AIO - No - No - 4KB (MB/s)	274	**363**	203	**25.1**
Normalized	75.48%	100%	55.92%	6.91%
Standard Deviation	1.1%	1.8%	1%	2.9%
Flexible IO Tester - Seq Read - Linux AIO - No - No - 16KB	848	**987**	703	**248**
Normalized	85.92%	100%	71.23%	25.13%
Standard Deviation	0.5%	1%	1.1%	7.8%
Flexible IO Tester - Seq Read - Linux AIO - No - No - 64KB	974	**1026**	730	**288**
Normalized	94.95%	100%	71.15%	28.07%
Standard Deviation		0.3%		6.6%
Flexible IO Tester - Seq Write - Linux AIO - No - No - 4KB (MB/s)	253	**287**	102.1	**32.4**
Normalized	88.15%	100%	35.57%	11.29%
Standard Deviation	0.6%		27.4%	1.2%
Flexible IO Tester - Seq Write - Linux AIO - No - No - 16KB	**555**	481	199	**125**
Normalized	100%	86.67%	35.86%	22.52%
Standard Deviation		0.4%	2%	1.6%
Flexible IO Tester - Seq Write - Linux AIO - No - No - 64KB	**546**	430	173	**130**
Normalized	100%	78.75%	31.68%	23.81%
Standard Deviation	0.9%	1.3%	6.6%	

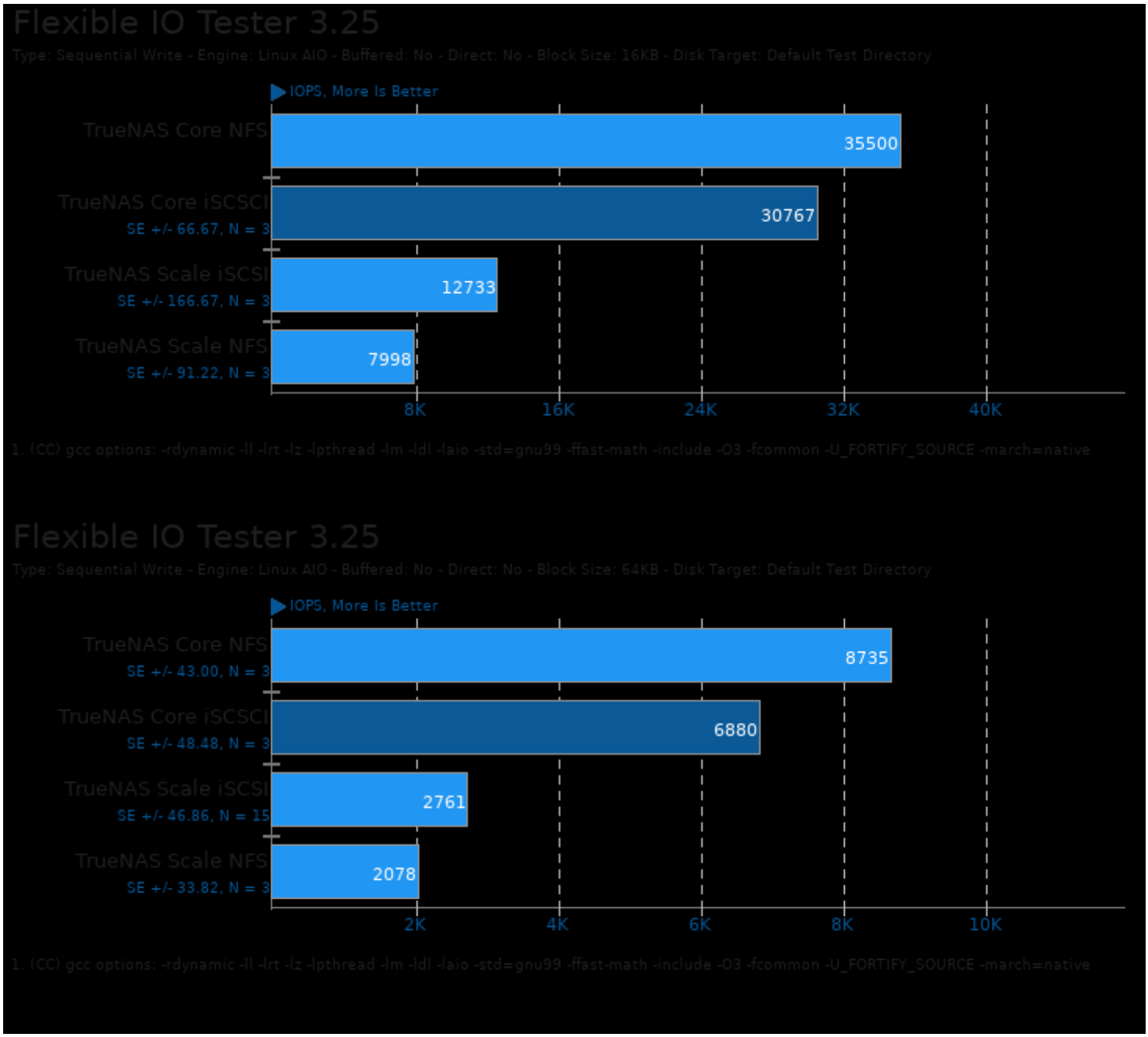

Flexible IO Tester 3.25
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
SE +/- 88.19, N = 3
45467
TrueNAS Core iSCSI
SE +/- 133.33, N = 3
64067
TrueNAS Scale iSCSI
SE +/- 284.80, N = 3
32233
TrueNAS Scale NFS
SE +/- 90.21, N = 3
7566
14K
28K
42K
56K
70K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
SE +/- 400.00, N = 3
38400
TrueNAS Core iSCSI
SE +/- 811.04, N = 3
55467
TrueNAS Scale iSCSI
SE +/- 120.19, N = 3
33633
TrueNAS Scale NFS
SE +/- 34.48, N = 3
7049
12K
24K
36K
48K
60K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

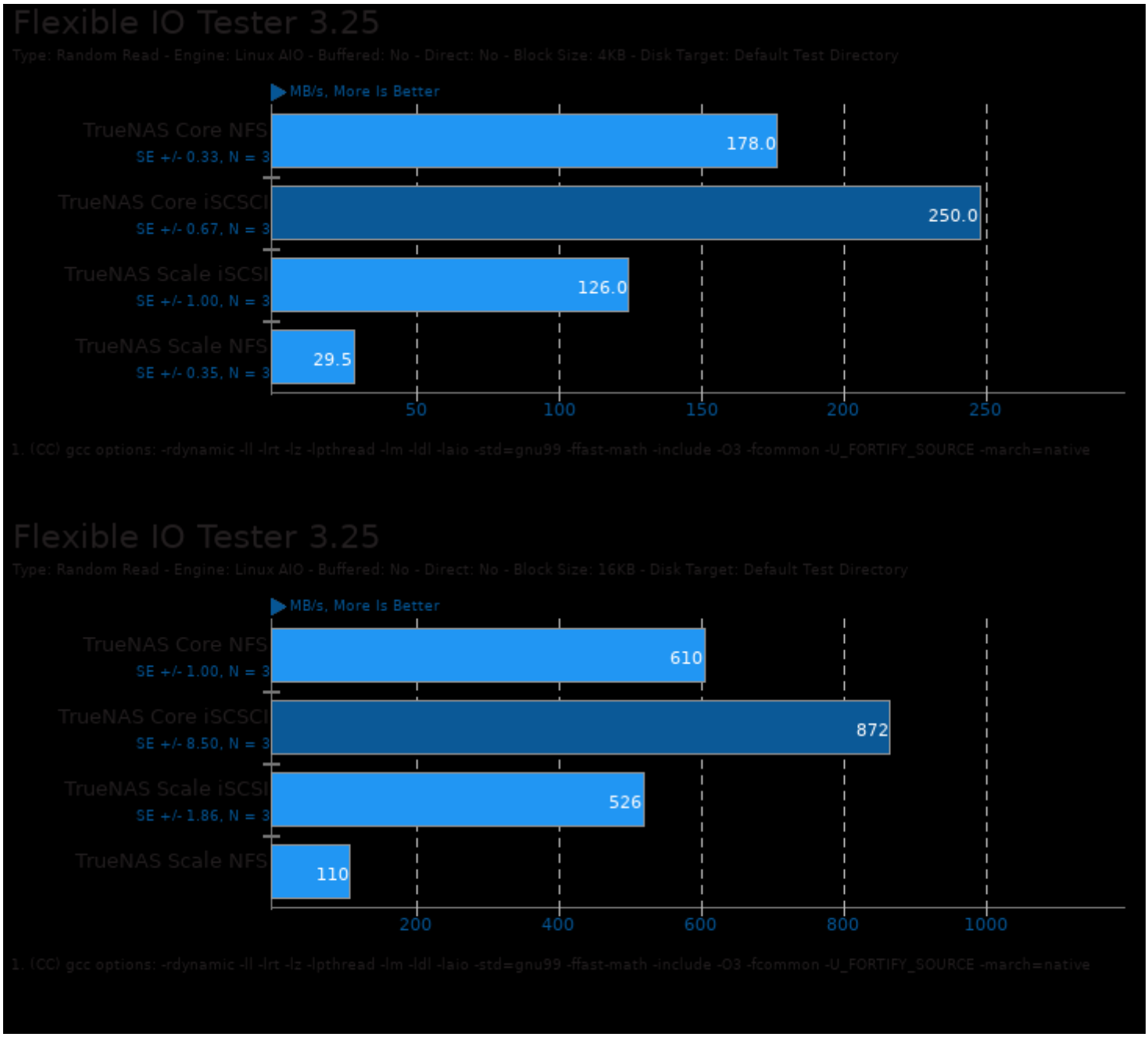

Flexible IO Tester 3.25
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
SE +/- 33.33, N = 3
15233
TrueNAS Core iSCSI
SE +/- 260.34, N = 3
15967
TrueNAS Scale iSCSI
SE +/- 33.33, N = 3
11833
TrueNAS Scale NFS
SE +/- 36.06, N = 3
3220
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
SE +/- 88.19, N = 3
17933
TrueNAS Core iSCSI
SE +/- 264.58, N = 3
33300
TrueNAS Scale iSCSI
SE +/- 575.27, N = 15
12352
TrueNAS Scale NFS
SE +/- 209.72, N = 15
2868
7K
14K
21K
28K
35K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

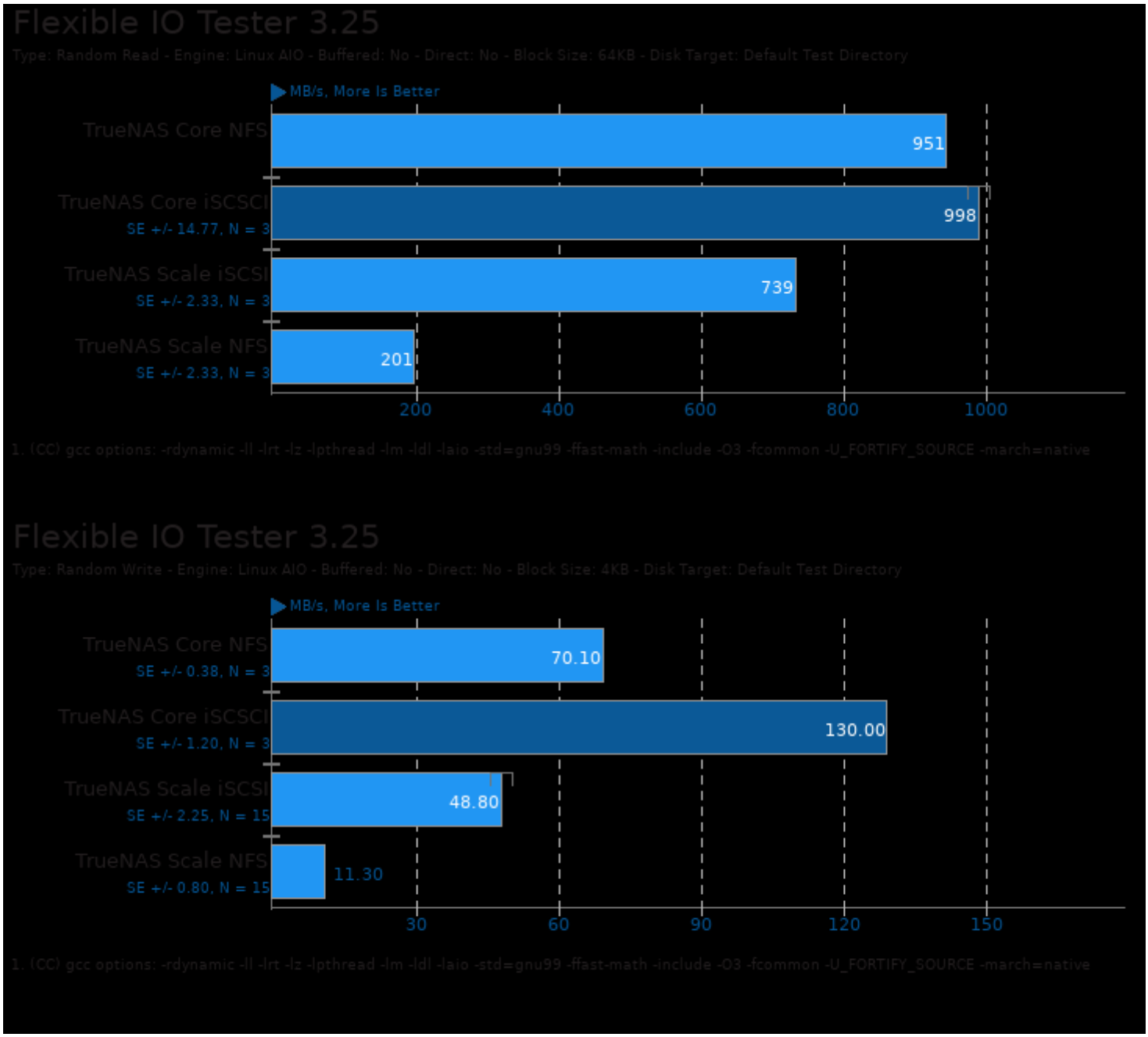

Flexible IO Tester 3.25
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
SE +/- 88.19, N = 3
14967
TrueNAS Core iSCSI
SE +/- 66.67, N = 3
21667
TrueNAS Scale iSCSI
SE +/- 107.70, N = 15
7218
TrueNAS Scale NFS
SE +/- 37.12, N = 3
2217
5K
10K
15K
20K
25K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
SE +/- 18.58, N = 3
7509
TrueNAS Core iSCSI
SE +/- 19.50, N = 3
8297
TrueNAS Scale iSCSI
SE +/- 27.28, N = 3
2772
TrueNAS Scale NFS
SE +/- 33.78, N = 15
1180
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

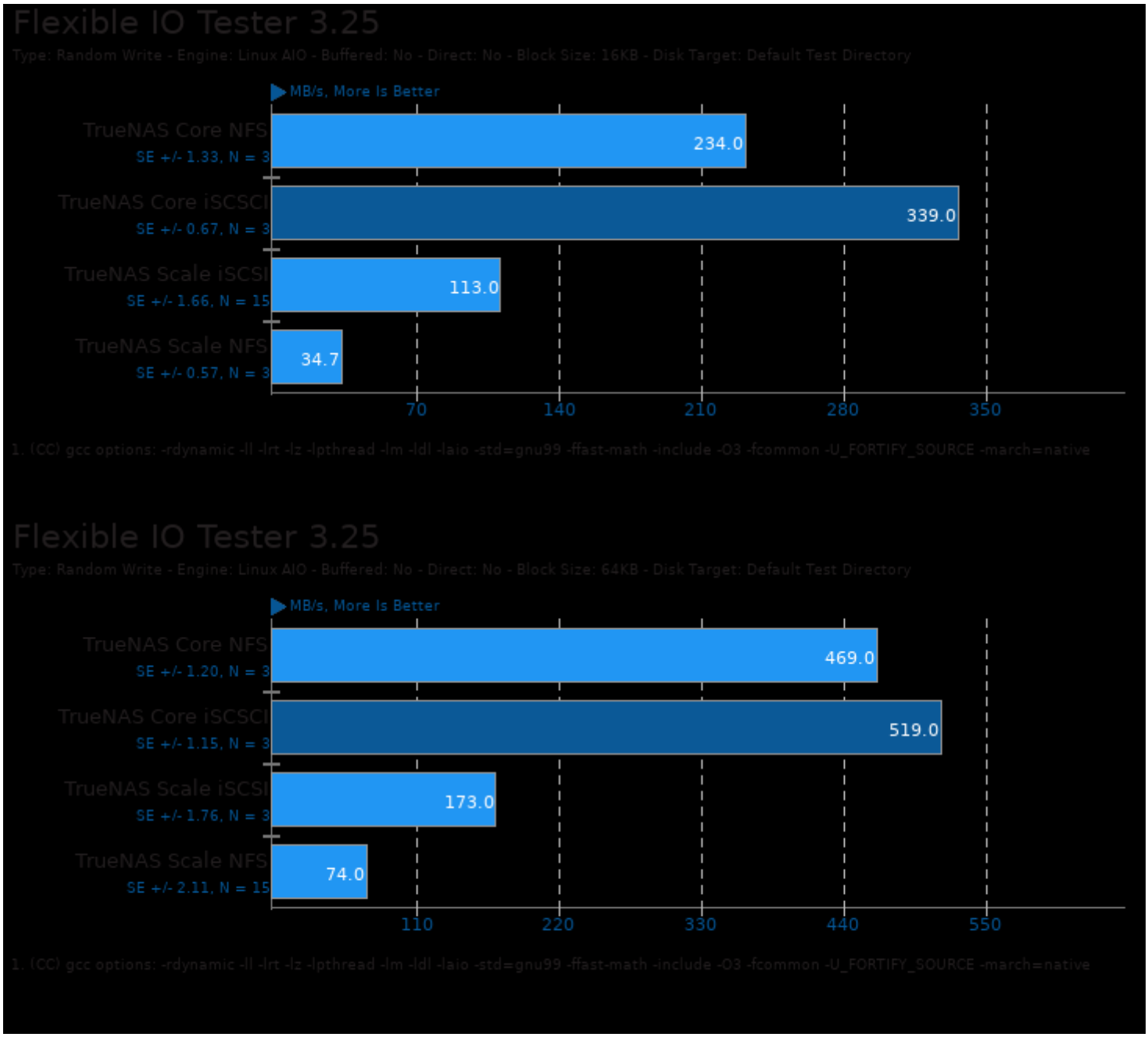

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
SE +/- 466.67, N = 3
70033
TrueNAS Core iSCSI
SE +/- 940.45, N = 3
93067
TrueNAS Scale iSCSI
SE +/- 296.27, N = 3
52067
TrueNAS Scale NFS
SE +/- 105.41, N = 3
6430
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
SE +/- 458.26, N = 3
53900
TrueNAS Core iSCSI
SE +/- 348.01, N = 3
63167
TrueNAS Scale iSCSI
SE +/- 284.80, N = 3
44967
TrueNAS Scale NFS
SE +/- 317.95, N = 15
15907
14K
28K
42K
56K
70K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

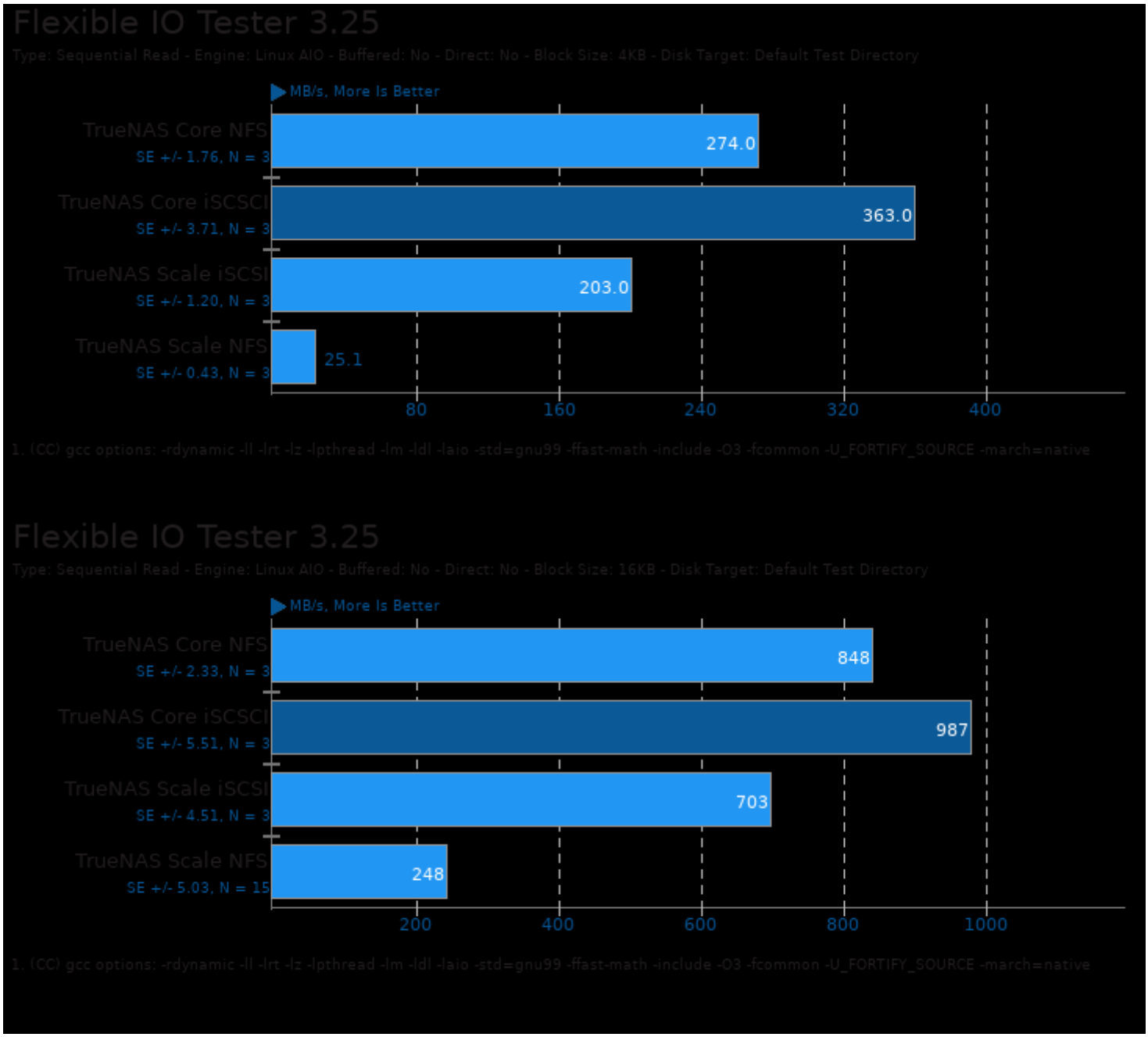

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
15600
TrueNAS Core iSCSI
SE +/- 33.33, N = 3
16433
TrueNAS Scale iSCSI
11700
TrueNAS Scale NFS
SE +/- 78.30, N = 15
4611
4K
8K
12K
16K
20K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
SE +/- 208.17, N = 3
64600
TrueNAS Core iSCSI
SE +/- 88.19, N = 3
73567
TrueNAS Scale iSCSI
SE +/- 2082.44, N = 12
25967
TrueNAS Scale NFS
SE +/- 58.13, N = 3
8282
16K
32K
48K
64K
80K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

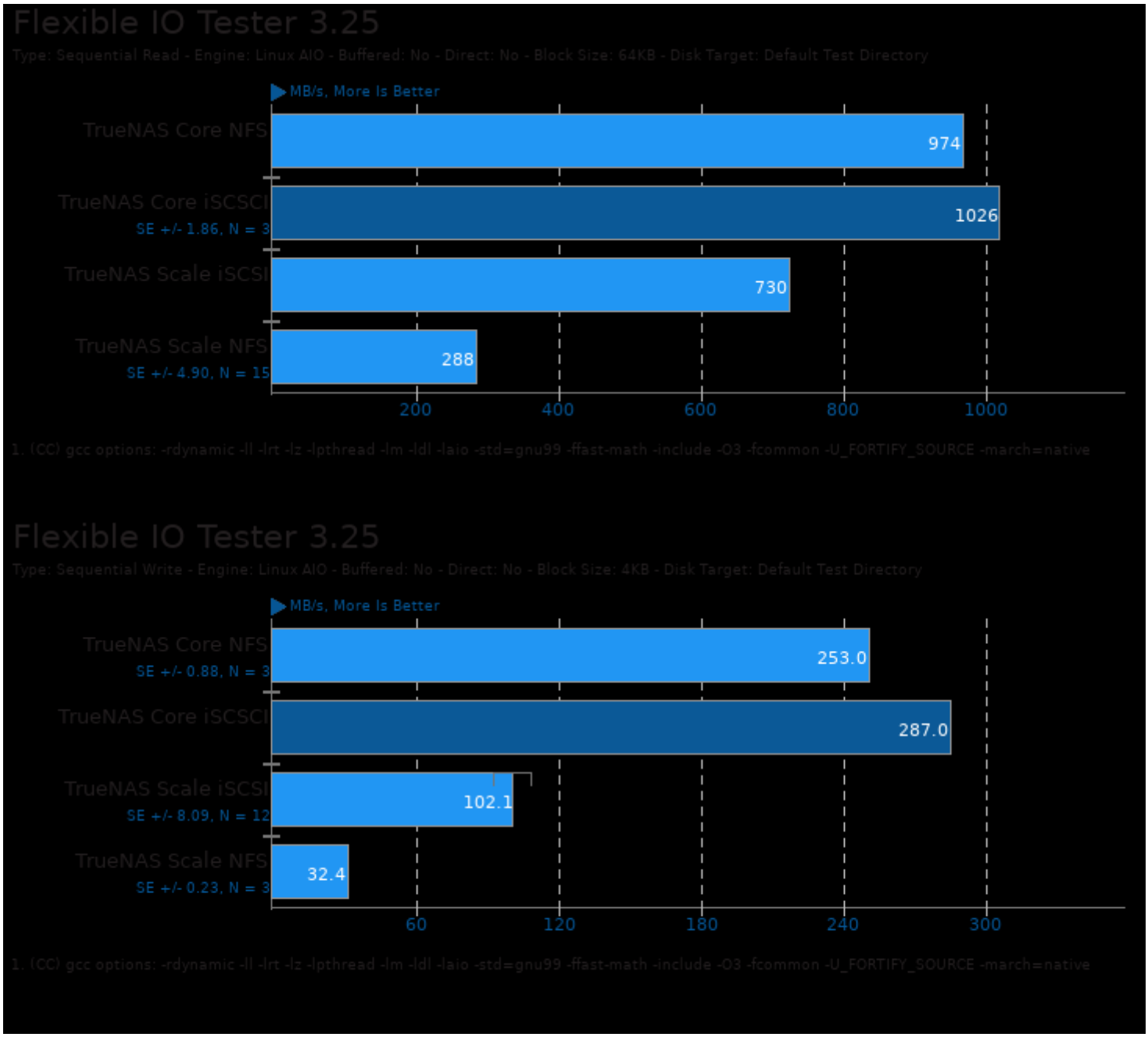

Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
35500
TrueNAS Core iSCSI
SE +/- 66.67, N = 3
30767
TrueNAS Scale iSCSI
SE +/- 166.67, N = 3
12733
TrueNAS Scale NFS
SE +/- 91.22, N = 3
7998
8K
16K
24K
32K
40K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
TrueNAS Core NFS
SE +/- 43.00, N = 3
8735
TrueNAS Core iSCSI
SE +/- 48.48, N = 3
6880
TrueNAS Scale iSCSI
SE +/- 46.86, N = 15
2761
TrueNAS Scale NFS
SE +/- 33.82, N = 3
2078
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

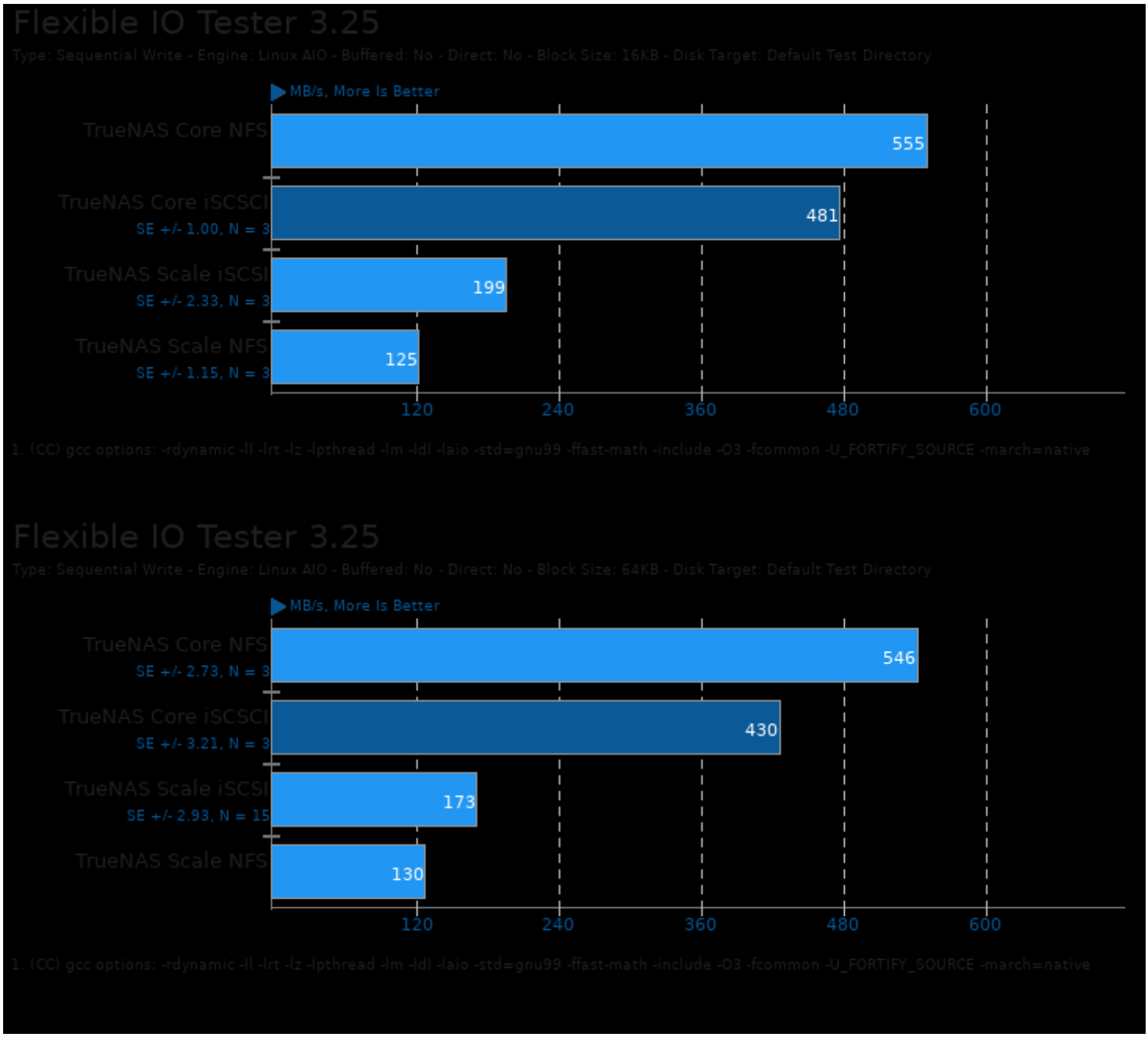

Flexible IO Tester 3.25
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
TrueNAS Core NFS
SE +/- 0.33, N = 3
178.0
TrueNAS Core iSCSI
SE +/- 0.67, N = 3
250.0
TrueNAS Scale iSCSI
SE +/- 1.00, N = 3
126.0
TrueNAS Scale NFS
SE +/- 0.35, N = 3
29.5
50
100
150
200
250
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
TrueNAS Core NFS
SE +/- 1.00, N = 3
610
TrueNAS Core iSCSI
SE +/- 8.50, N = 3
872
TrueNAS Scale iSCSI
SE +/- 1.86, N = 3
526
TrueNAS Scale NFS
110
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
TrueNAS Core NFS
951
TrueNAS Core iSCSI
SE +/- 14.77, N = 3
998
TrueNAS Scale iSCSI
SE +/- 2.33, N = 3
739
TrueNAS Scale NFS
SE +/- 2.33, N = 3
201
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
TrueNAS Core NFS
SE +/- 0.38, N = 3
70.10
TrueNAS Core iSCSI
SE +/- 1.20, N = 3
130.00
TrueNAS Scale iSCSI
SE +/- 2.25, N = 15
48.80
TrueNAS Scale NFS
SE +/- 0.80, N = 15
11.30
30
60
90
120
150
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
TrueNAS Core NFS
SE +/- 1.33, N = 3
234.0
TrueNAS Core iSCSI
SE +/- 0.67, N = 3
339.0
TrueNAS Scale iSCSI
SE +/- 1.66, N = 15
113.0
TrueNAS Scale NFS
SE +/- 0.57, N = 3
34.7
70
140
210
280
350
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
TrueNAS Core NFS
SE +/- 1.20, N = 3
469.0
TrueNAS Core iSCSI
SE +/- 1.15, N = 3
519.0
TrueNAS Scale iSCSI
SE +/- 1.76, N = 3
173.0
TrueNAS Scale NFS
SE +/- 2.11, N = 15
74.0
110
220
330
440
550
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
TrueNAS Core NFS
SE +/- 1.76, N = 3
274.0
TrueNAS Core iSCSI
SE +/- 3.71, N = 3
363.0
TrueNAS Scale iSCSI
SE +/- 1.20, N = 3
203.0
TrueNAS Scale NFS
SE +/- 0.43, N = 3
25.1
80
160
240
320
400
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
TrueNAS Core NFS
SE +/- 2.33, N = 3
848
TrueNAS Core iSCSI
SE +/- 5.51, N = 3
987
TrueNAS Scale iSCSI
SE +/- 4.51, N = 3
703
TrueNAS Scale NFS
SE +/- 5.03, N = 15
248
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
TrueNAS Core NFS
974
TrueNAS Core iSCSCI
SE +/- 1.86, N = 3
1026
TrueNAS Scale iSCSI
730
TrueNAS Scale NFS
SE +/- 4.90, N = 15
288
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
TrueNAS Core NFS
SE +/- 0.88, N = 3
253.0
TrueNAS Core iSCSCI
287.0
TrueNAS Scale iSCSI
SE +/- 8.09, N = 12
102.1
TrueNAS Scale NFS
SE +/- 0.23, N = 3
32.4
60
120
180
240
300
1. (CC) gcc options: -rdynamic -ll -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:31.