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nocinder02_2-2

SolusIO virtual server 4vCPU 10GB Disk 8GB RAM on AMD EPYC 7502P with 128GB RAM and NVMe drive running 50 virtual servers

Test Systems:

4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO

Processor: 4 x Intel Core (Skylake IBRS) (4 Cores), Motherboard: RDO OpenStack Compute (1.11.0-2.el7 BIOS), Memory: 1 x 8192 MB RAM, Disk: 80GB, Graphics: cirrusdrmfb

OS: CentOS Linux 7, Kernel: 3.10.0-693.el7.x86_64 (x86_64), Compiler: GCC 4.8.5 20150623, File-System: xfs, Screen Resolution: 1024x768, System Layer: KVM

Compiler Notes: --build=x86_64-redhat-linux --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,java,fortran,ada,go,lto --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-linker-hash-style=gnu --with-tune=generic
Disk Notes: none / attr2,inode64,noquota,relatime,rw,seclabel
Processor Notes: CPU Microcode: 0x1
Security Notes: SELinux

solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-2

Processor: 4 x AMD EPYC 7502P 32-Core (4 Cores), Motherboard: QEMU Standard PC (i440FX + PIIX 1996) (1.12.0-1 BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1 x 8192 MB RAM QEMU, Disk: 32GB QEMU HDD, Network: Red Hat Virtio device

OS: Ubuntu 20.04, Kernel: 5.4.0-62-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.9, Compiler: GCC 9.3.0, File-System: ext4, System Layer: KVM

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: MQ-DEADLINE / relatime,rw / Block Size: 4096
Processor Notes: CPU Microcode: 0x1000065
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + 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 AMD retpoline IBPB: conditional IBRS_FW STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3

Processor: 4 x AMD EPYC 7502P 32-Core (4 Cores), Motherboard: QEMU Standard PC (i440FX + PIIX 1996) (1.12.0-1 BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1 x 8192 MB RAM QEMU, Disk: 107GB QEMU HDD, Network: Red Hat Virtio device

OS: Ubuntu 20.04, Kernel: 5.4.0-62-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.9, Compiler: GCC 9.3.0, File-System: ext4, System Layer: KVM

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: MQ-DEADLINE / relatime,rw / Block Size: 4096
Processor Notes: CPU Microcode: 0x1000065
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + 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 AMD retpoline IBPB: conditional IBRS_FW STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO	solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-2	solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 8KB (IOPS)	**16613**		**52347**
Normalized	31.74%		100%
Standard Deviation	13.1%		27.1%
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 8KB (MB/s)	**130**		**410**
Normalized	31.71%		100%
Standard Deviation	13.1%		26.9%
Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 512KB (IOPS)	**246**		**768**
Normalized	32.03%		100%
Standard Deviation	12.2%		14%

Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 512KB (MB/s)	**125**	**386**
Normalized	32.38%	100%
Standard Deviation	12.1%	14%
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 8MB (IOPS)	**15**	**50**
Normalized	30%	100%
Standard Deviation	12%	46.4%
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 8MB (MB/s)	**146**	**431**
Normalized	33.87%	100%
Standard Deviation	12.1%	43.4%
Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 8MB (IOPS)	**15**	**64**
Normalized	23.44%	100%
Standard Deviation	15.1%	30.4%
Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 8MB (MB/s)	**148**	**543**
Normalized	27.26%	100%
Standard Deviation	14.9%	28.9%
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 4KB (IOPS)	**30293**	**150475**
Normalized	20.13%	100%
Standard Deviation	7.6%	35.9%
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 4KB (MB/s)	**118**	**587**
Normalized	20.1%	100%
Standard Deviation	7.7%	35.9%
Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 8KB (IOPS)	**14800**	**76080**
Normalized	19.45%	100%
Standard Deviation		10%
Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 8KB (MB/s)	**115**	**594**
Normalized	19.36%	100%
Standard Deviation		10%
Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 4KB (IOPS)	**28633**	**151867**
Normalized	18.85%	100%
Standard Deviation	1.9%	9.9%
Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 4KB (MB/s)	**113**	**593**
Normalized	19.06%	100%
Standard Deviation		9.9%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (IOPS)	**14**	**81**
Normalized	17.28%	100%
Standard Deviation		31.2%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8MB (MB/s)	**140**	**675**
Normalized	20.74%	100%
Standard Deviation		29.9%

Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 8MB (IOPS)	**14**	**94**
Normalized	14.89%	100%
Standard Deviation		35.8%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 8MB (MB/s)	**139**	**782**
Normalized	17.77%	100%
Standard Deviation	0.7%	34.5%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 8MB (IOPS)	**14**	**91**
Normalized	15.38%	100%
Standard Deviation		41.2%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 8MB (MB/s)	**141**	**759**
Normalized	18.58%	100%
Standard Deviation	0.4%	39.8%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (IOPS)	**14**	**81**
Normalized	17.28%	100%
Standard Deviation		37.6%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8MB (MB/s)	**141**	**680**
Normalized	20.74%	100%
Standard Deviation		36%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 512KB (IOPS)	**228**	**843**
Normalized	27.05%	100%
Standard Deviation	0.7%	28.6%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 512KB (MB/s)	**116**	**423**
Normalized	27.42%	100%
Standard Deviation	0.9%	28.5%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 512KB (IOPS)	**229**	**968**
Normalized	23.66%	100%
Standard Deviation	1.3%	44.2%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 512KB (MB/s)	**117**	**486**
Normalized	24.07%	100%
Standard Deviation	1.3%	44%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 512KB (IOPS)	**233**	**1157**
Normalized	20.14%	100%
Standard Deviation		51.3%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 512KB (MB/s)	**118**	**580**
Normalized	20.34%	100%
Standard Deviation		51.2%
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 8MB (IOPS)	**14**	**91**
Normalized	15.38%	100%
Standard Deviation		62.5%

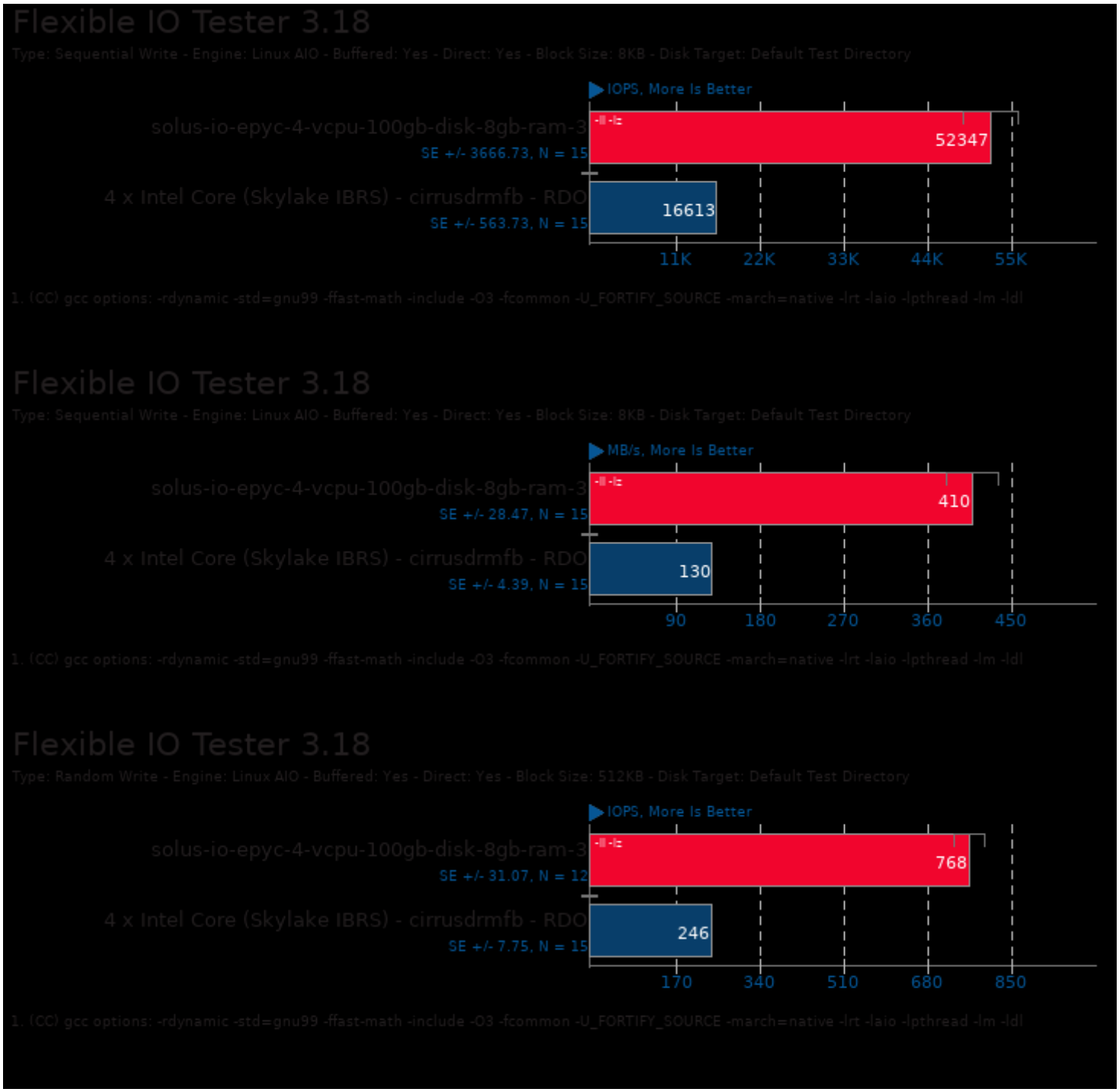
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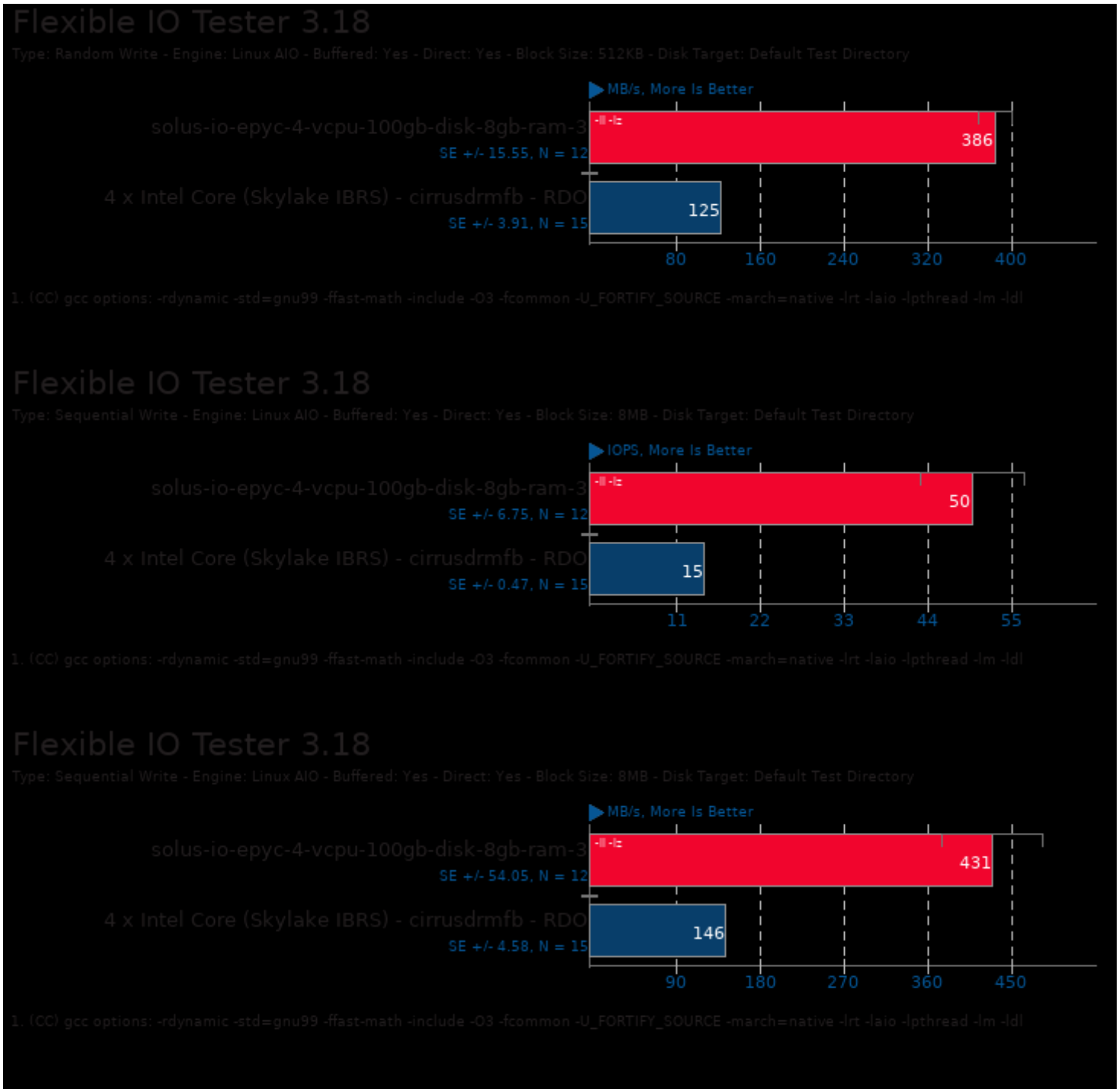
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 8MB (MB/s)	**141**	**759**
Normalized	18.58%	100%
Standard Deviation		60.2%
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 512KB (IOPS)	**232**	**514**
Normalized	45.14%	100%
Standard Deviation	0.2%	52.8%
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 512KB (MB/s)	**118**	**259**
Normalized	45.56%	100%
Standard Deviation	0.5%	52.5%
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 64KB (IOPS)	**1847**	**8110**
Normalized	22.77%	100%
Standard Deviation	0%	55.1%
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 64KB (MB/s)	**116**	**507.5**
Normalized	22.86%	100%
Standard Deviation		55.1%
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 512KB (IOPS)	**151**	**580**
Normalized	26.03%	100%
Standard Deviation		56.3%
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 512KB (MB/s)	**77.3**	**291.6**
Normalized	26.51%	100%
Standard Deviation	0.1%	55.9%
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 8KB (IOPS)	**709**	**5078**
Normalized	13.96%	100%
Standard Deviation	0.2%	5.9%
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 8KB (MB/s)	**5.705**	**39.7**
Normalized	14.37%	100%
Standard Deviation	0.1%	5.9%
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 4KB (IOPS)	**777**	**5552**
Normalized	13.99%	100%
Standard Deviation		6.2%
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 4KB (MB/s)	**3.122**	**21.7**
Normalized	14.39%	100%
Standard Deviation	0.2%	6.3%
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 64KB (IOPS)	**1848**	**4812**
Normalized	38.4%	100%
Standard Deviation	0.7%	21.1%
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 64KB (MB/s)	**116**	**301**
Normalized	38.54%	100%
Standard Deviation	0.5%	21.1%

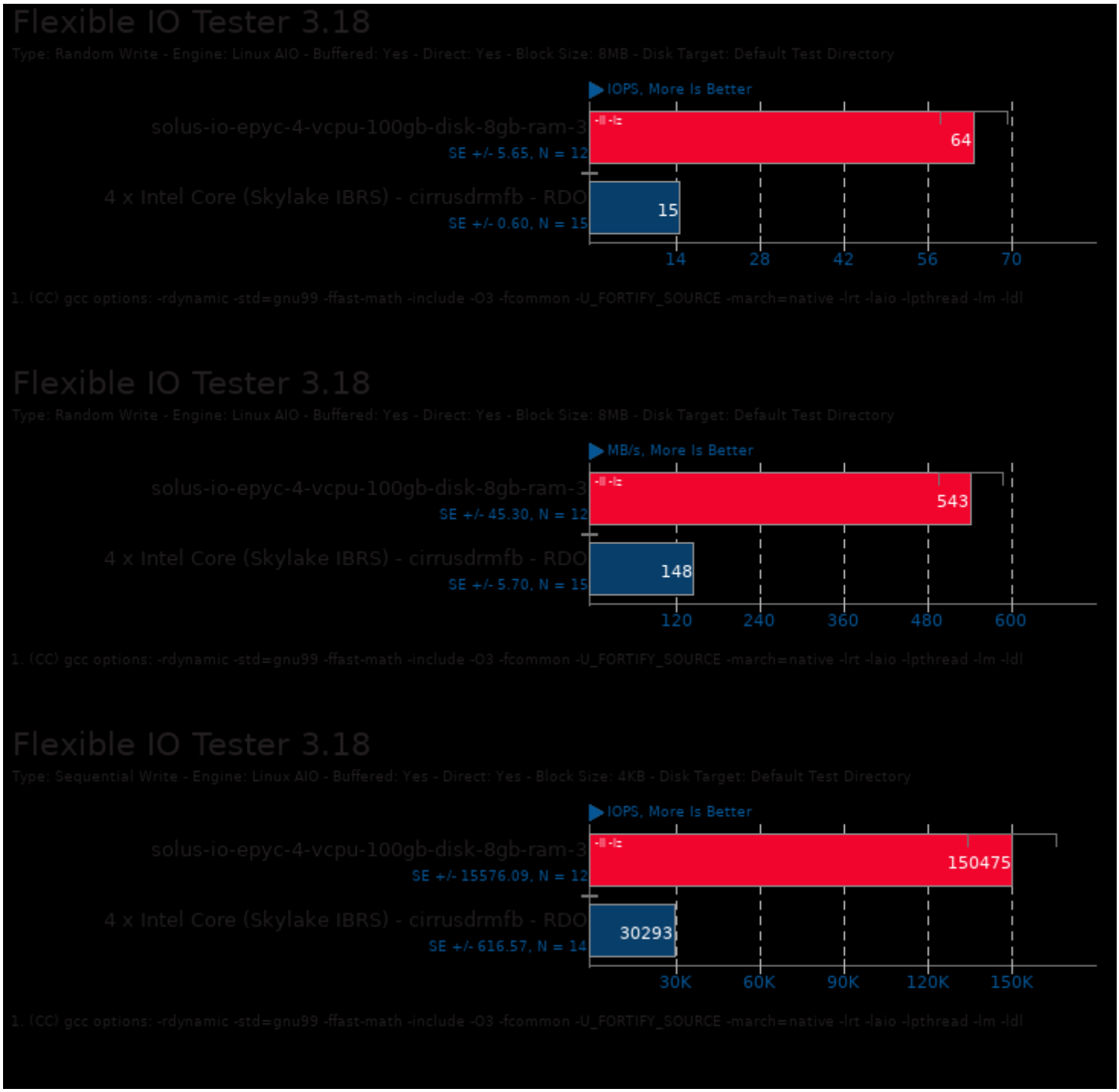
Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 64KB (IOPS)	**1850**	**7369**
Normalized	25.11%	100%
Standard Deviation		41.1%
Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 64KB (MB/s)	**116**	**460**
Normalized	25.22%	100%
Standard Deviation		41%
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 512KB (IOPS)	**233**	**821**
Normalized	28.38%	100%
Standard Deviation		56.2%
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 512KB (MB/s)	**118**	**412**
Normalized	28.64%	100%
Standard Deviation		56%
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 8MB (IOPS)	**11**	**50**
Normalized	22%	100%
Standard Deviation		41.2%
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 8MB (MB/s)	**115**	**433**
Normalized	26.56%	100%
Standard Deviation		38.8%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 512KB (IOPS)	**233**	**964**
Normalized	24.17%	100%
Standard Deviation		29.3%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 512KB (MB/s)	**118**	**484**
Normalized	24.38%	100%
Standard Deviation		29.1%
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 4KB (IOPS)	**29300**	**142167**
Normalized	20.61%	100%
Standard Deviation		37.7%
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 4KB (MB/s)	**115**	**555.1**
Normalized	20.72%	100%
Standard Deviation		37.7%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8KB (IOPS)	**14900**	**86900**
Normalized	17.15%	100%
Standard Deviation		2.4%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 8KB (MB/s)	**116**	**679**
Normalized	17.08%	100%
Standard Deviation		2.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	**29067**	**86333**
Normalized	33.67%	100%
Standard Deviation	0.5%	2.4%

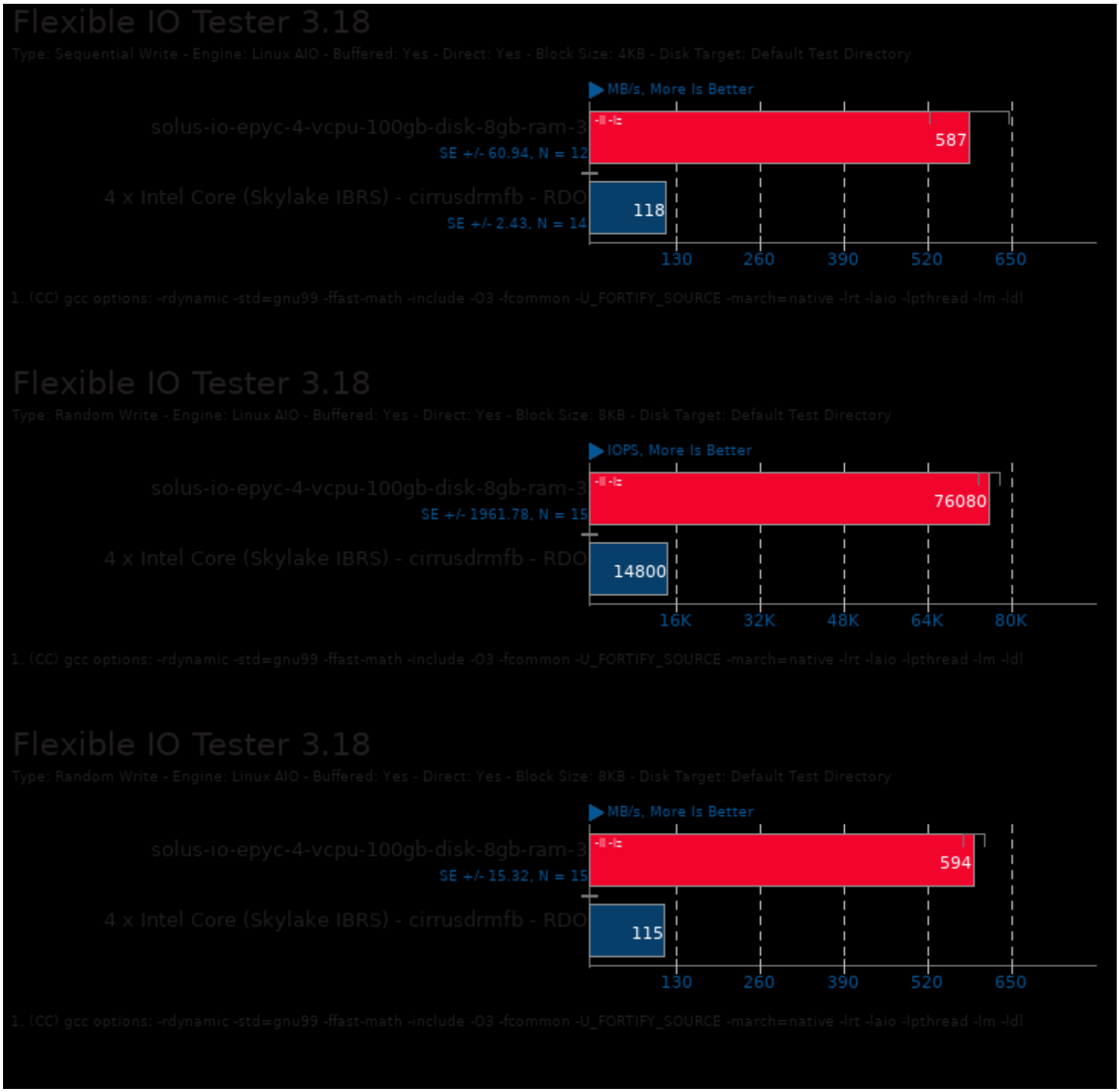
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	**114**	**337**
Normalized	33.83%	100%
Standard Deviation	0.5%	2.4%
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 8KB (IOPS)	**14800**	**91633**
Normalized	16.15%	100%
Standard Deviation		1.1%
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 8KB (MB/s)	**116**	**716**
Normalized	16.2%	100%
Standard Deviation		1.1%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	**29600**	**88433**
Normalized	33.47%	100%
Standard Deviation		0.9%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	**116**	**345**
Normalized	33.62%	100%
Standard Deviation		0.9%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (IOPS)	**28567**	**89200**
Normalized	32.03%	100%
Standard Deviation	0.2%	1.2%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (MB/s)	**112**	**348**
Normalized	32.18%	100%
Standard Deviation		1.2%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8KB (IOPS)	**14600**	**83400**
Normalized	17.51%	100%
Standard Deviation	1.2%	2.3%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 8KB (MB/s)	**114**	**652**
Normalized	17.48%	100%
Standard Deviation	1%	2.3%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 64KB (IOPS)	**1840**	**27500**
Normalized	6.69%	100%
Standard Deviation	0.6%	1.5%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 64KB (MB/s)	**115**	**1720**
Normalized	6.69%	100%
Standard Deviation		1.4%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 64KB (IOPS)	**1875**	**40867**
Normalized	4.59%	100%
Standard Deviation		0.5%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 64KB (MB/s)	**117**	**2555**
Normalized	4.58%	100%
Standard Deviation		0.6%

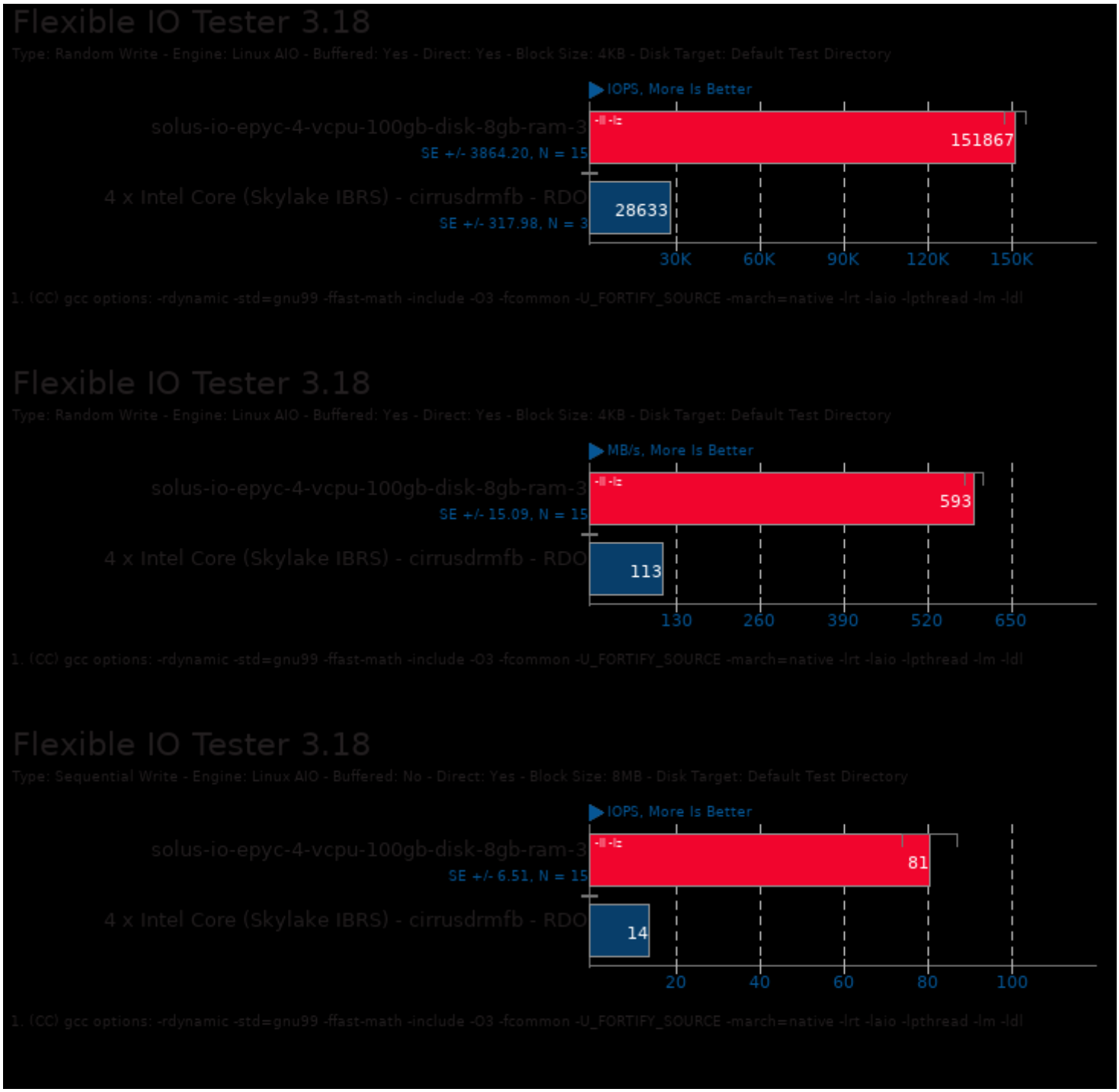
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 64KB (IOPS)	**516**	**2072**
Normalized	24.9%	100%
Standard Deviation	0.1%	0.5%
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 64KB (MB/s)	**32.5**	**130**
Normalized	25%	100%
Standard Deviation	0%	
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (IOPS)	**7732**	**87533**
Normalized	8.83%	100%
Standard Deviation	2.1%	0.9%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (MB/s)	**30.2**	**342**
Normalized	8.83%	100%
Standard Deviation	2.1%	0.9%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 8KB (IOPS)	**7513**	**84267**
Normalized	8.92%	100%
Standard Deviation	1.3%	0.3%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 8KB (MB/s)	**58.7**	**659**
Normalized	8.91%	100%
Standard Deviation	1.3%	0.4%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 64KB (IOPS)	**1876**	**36700**
Normalized	5.11%	100%
Standard Deviation	0%	1.7%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 64KB (MB/s)	**117**	**2313**
Normalized	5.06%	100%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 8KB (IOPS)	**14700**	**89133**
Normalized	16.49%	100%
Standard Deviation		1.5%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 8KB (MB/s)	**115**	**696**
Normalized	16.52%	100%
Standard Deviation		1.5%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 64KB (IOPS)	**1824**	**26700**
Normalized	6.83%	100%
Standard Deviation	0.7%	0.4%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 64KB (MB/s)	**114**	**1669**
Normalized	6.83%	100%
Standard Deviation	0.9%	0.5%

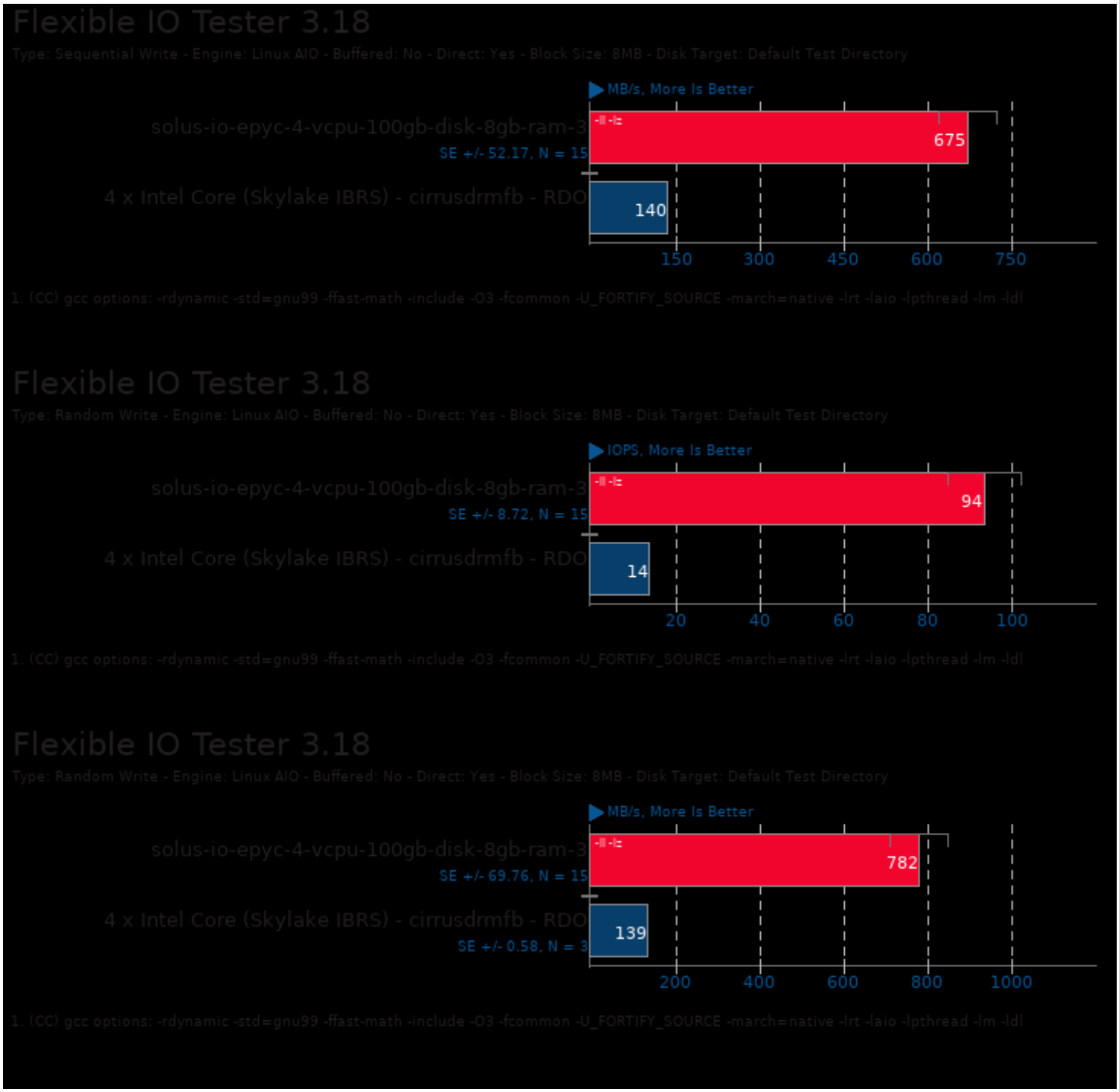

Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 3666.73, N = 15
52347
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 563.73, N = 15
16613
11K
22K
33K
44K
55K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 28.47, N = 15
410
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 4.39, N = 15
130
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 31.07, N = 12
768
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 7.75, N = 15
246
170
340
510
680
850
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

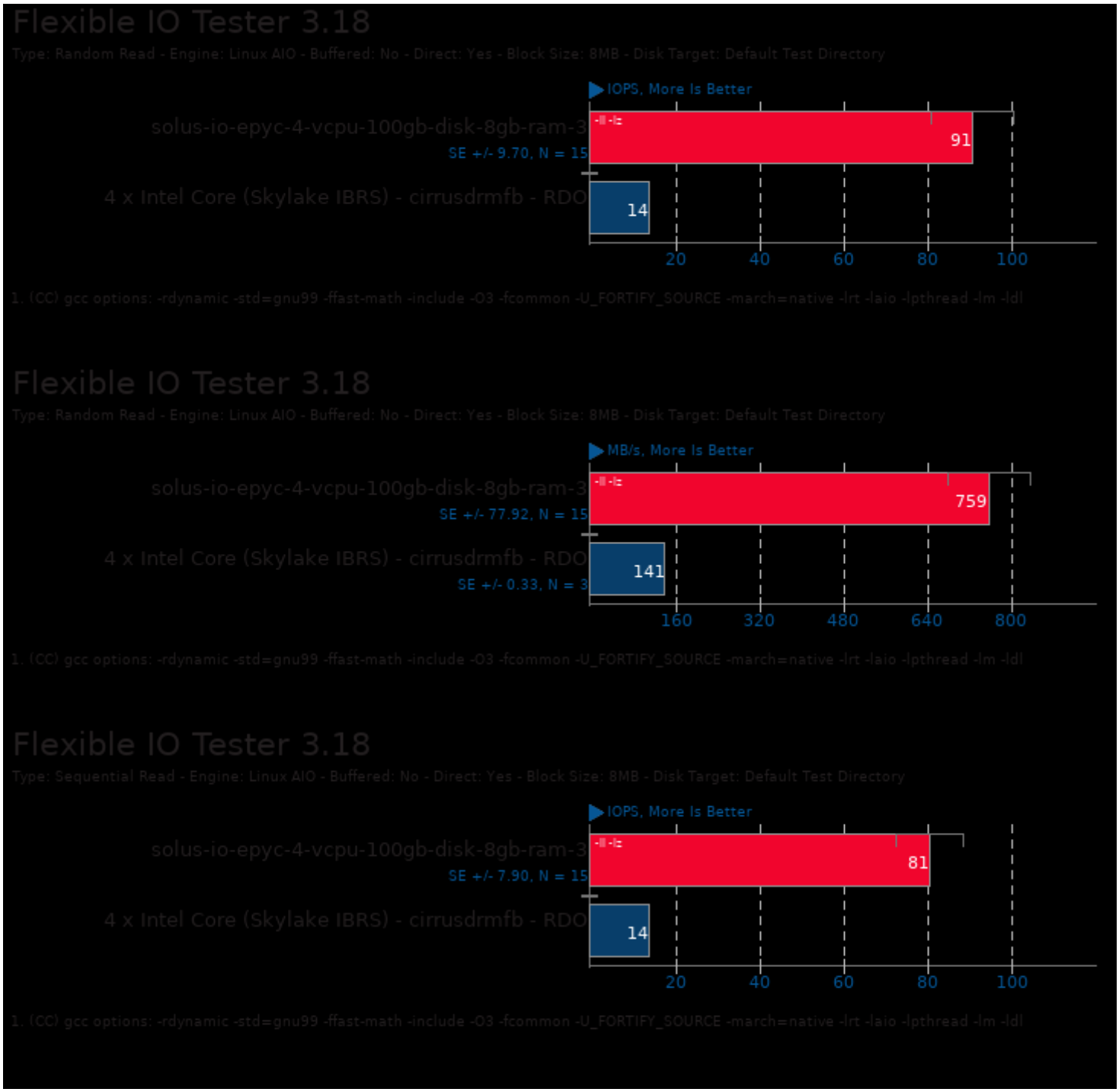

Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 15.55, N = 12
386
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 3.91, N = 15
125
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 6.75, N = 12
50
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.47, N = 15
15
11
22
33
44
55
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 54.05, N = 12
431
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 4.58, N = 15
146
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

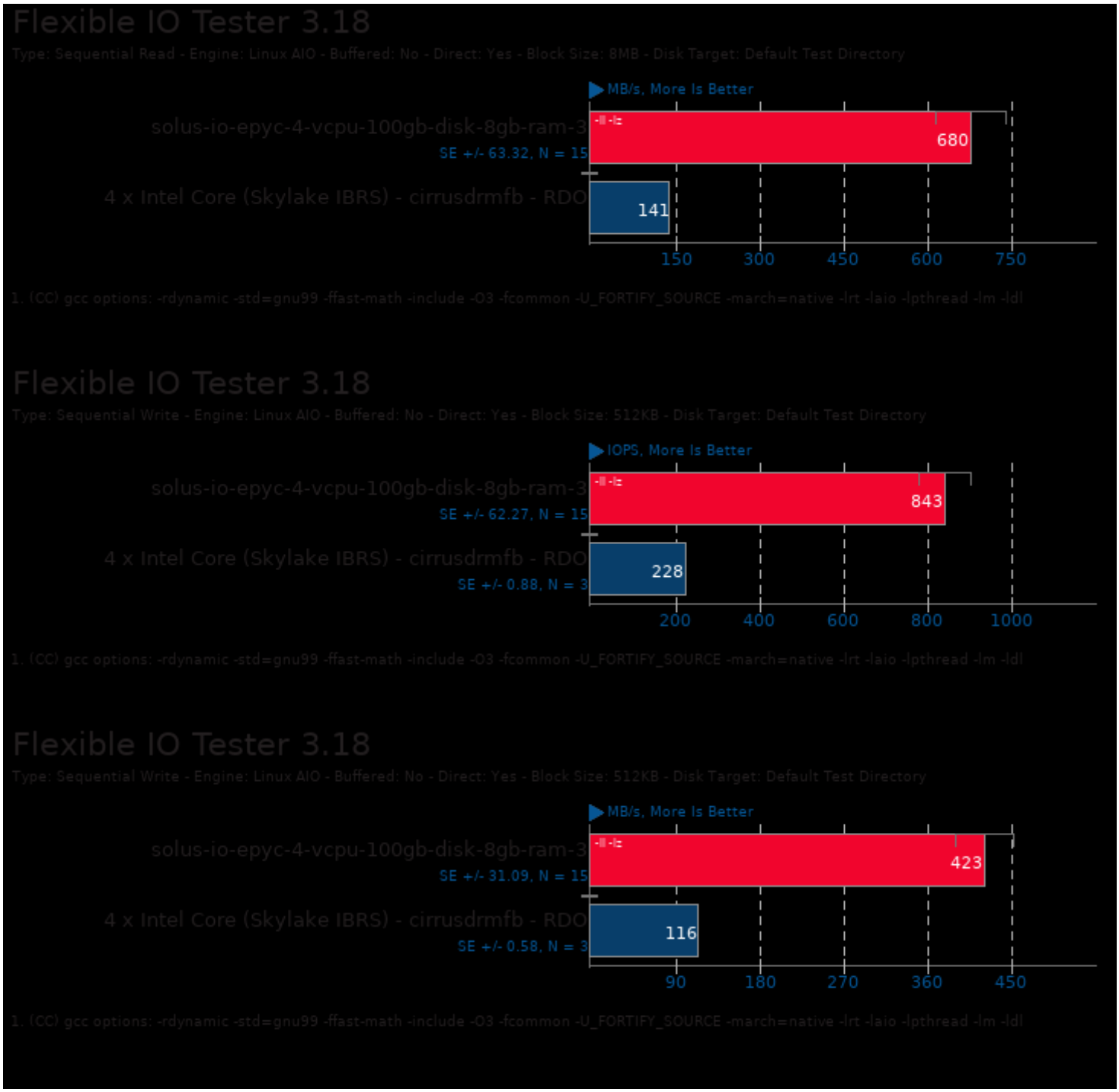

Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 5.65, N = 12
64
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.60, N = 15
15
14
28
42
56
70
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 45.30, N = 12
543
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 5.70, N = 15
148
120
240
360
480
600
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 15576.09, N = 12
150475
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 616.57, N = 14
30293
30K
60K
90K
120K
150K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

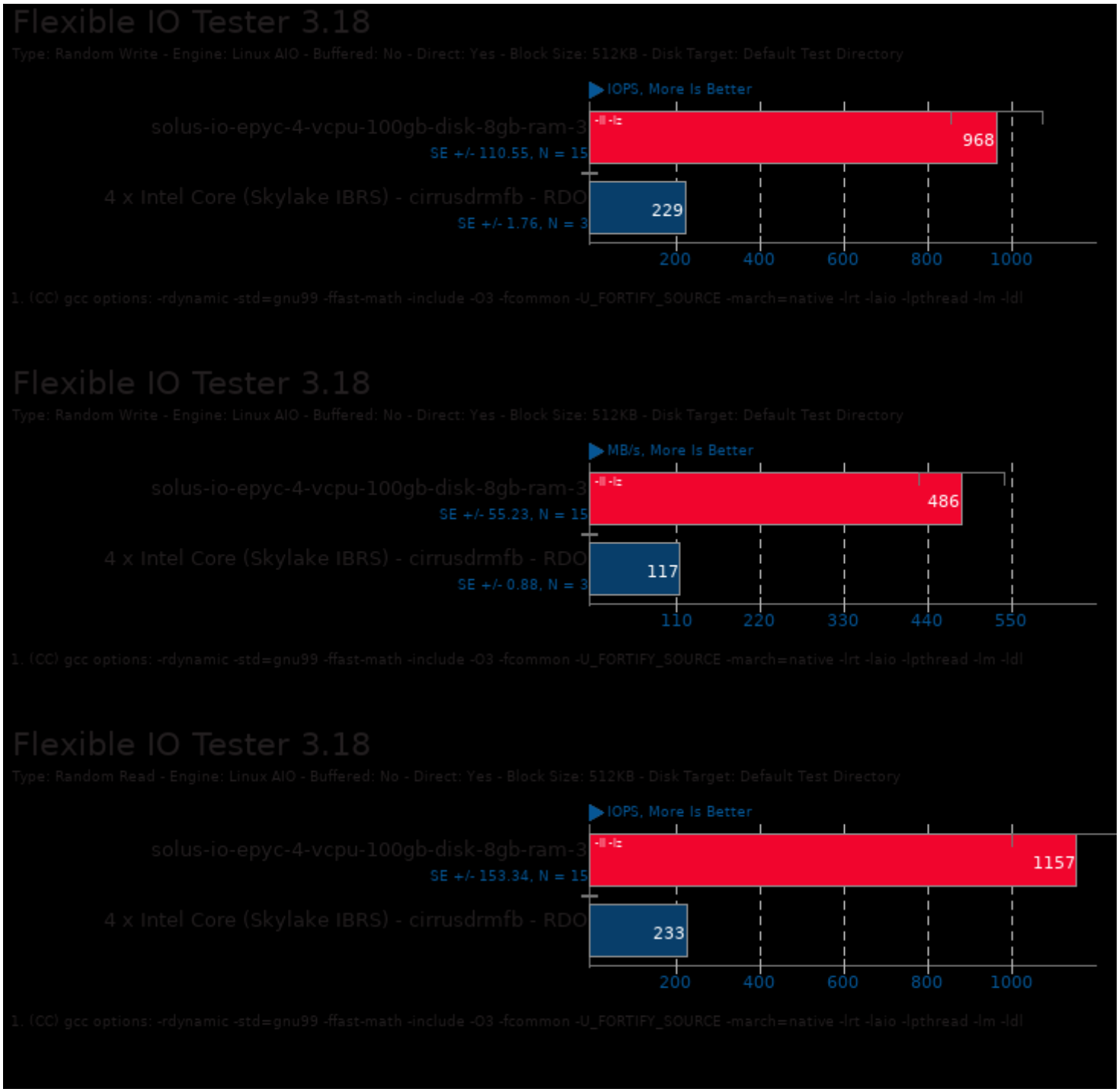

Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 60.94, N = 12
587
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 2.43, N = 14
118
130
260
390
520
650
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 1961.78, N = 15
76080
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
14800
16K
32K
48K
64K
80K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 15.32, N = 15
594
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
115
130
260
390
520
650
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

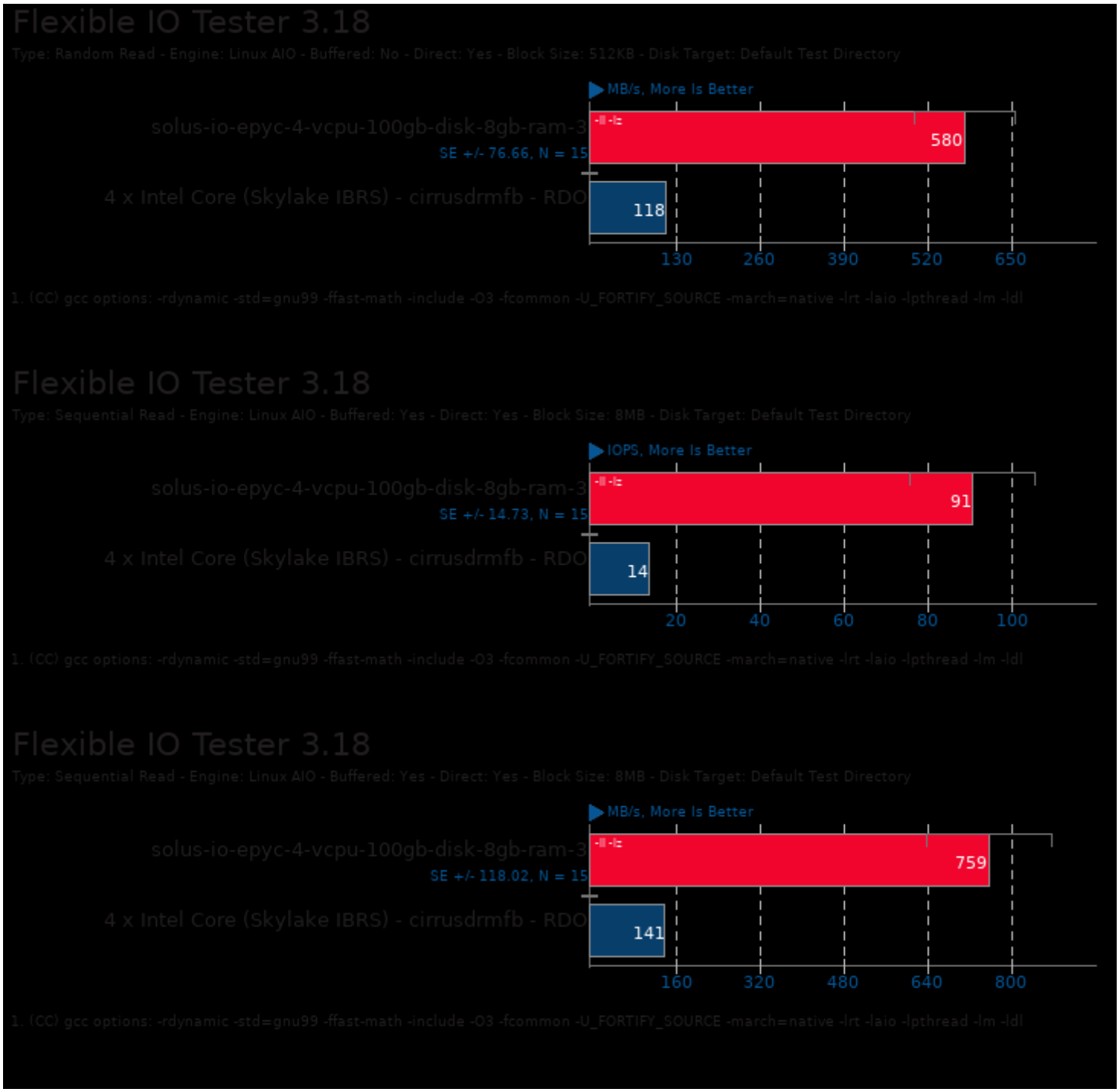

Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 3864.20, N = 15
151867
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 317.98, N = 3
28633
30K
60K
90K
120K
150K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 15.09, N = 15
593
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
113
130
260
390
520
650
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 6.51, N = 15
81
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
14
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

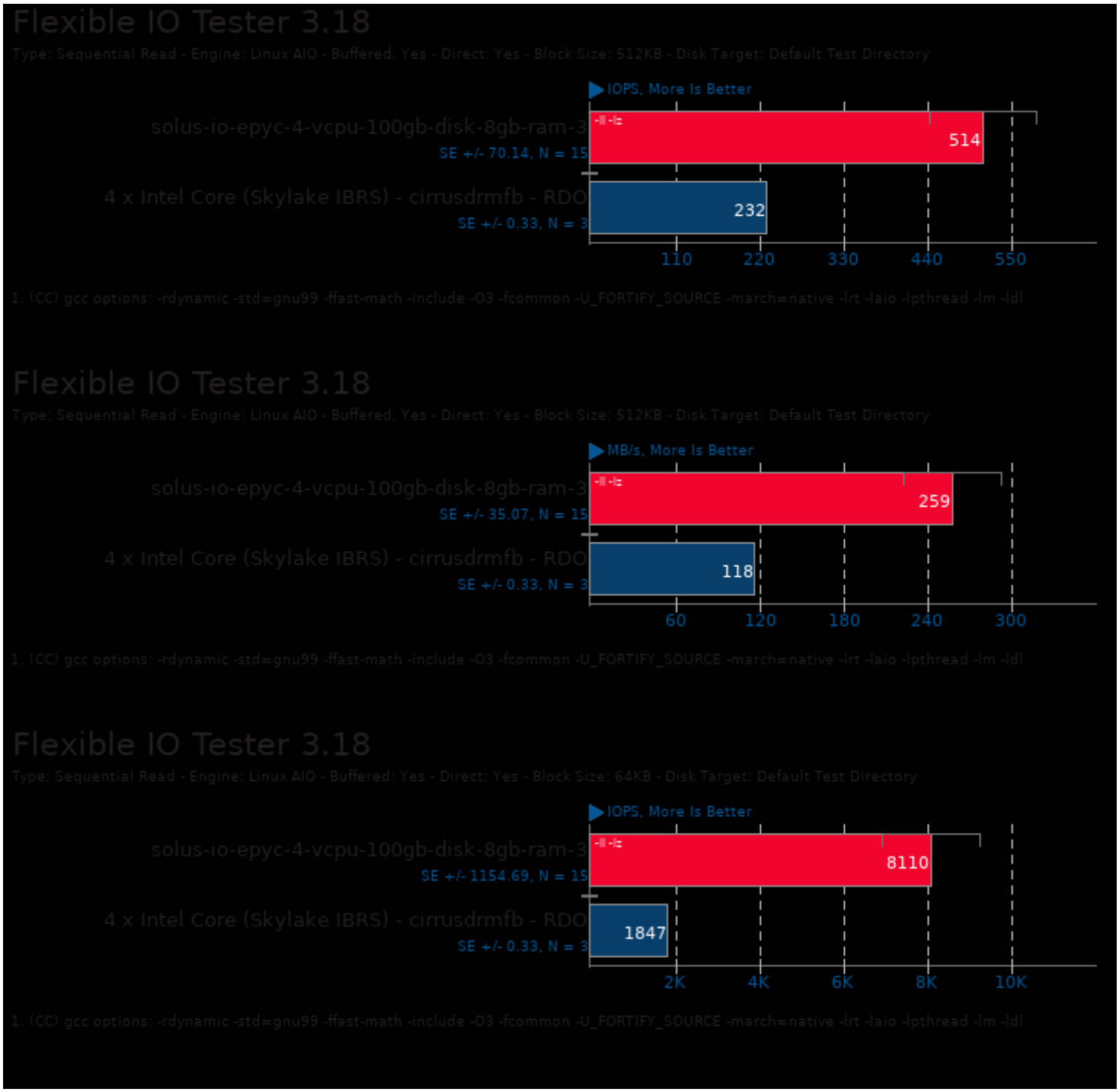

Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 52.17, N = 15
675
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
140
150
300
450
600
750
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 8.72, N = 15
94
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
14
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 69.76, N = 15
782
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.58, N = 3
139
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

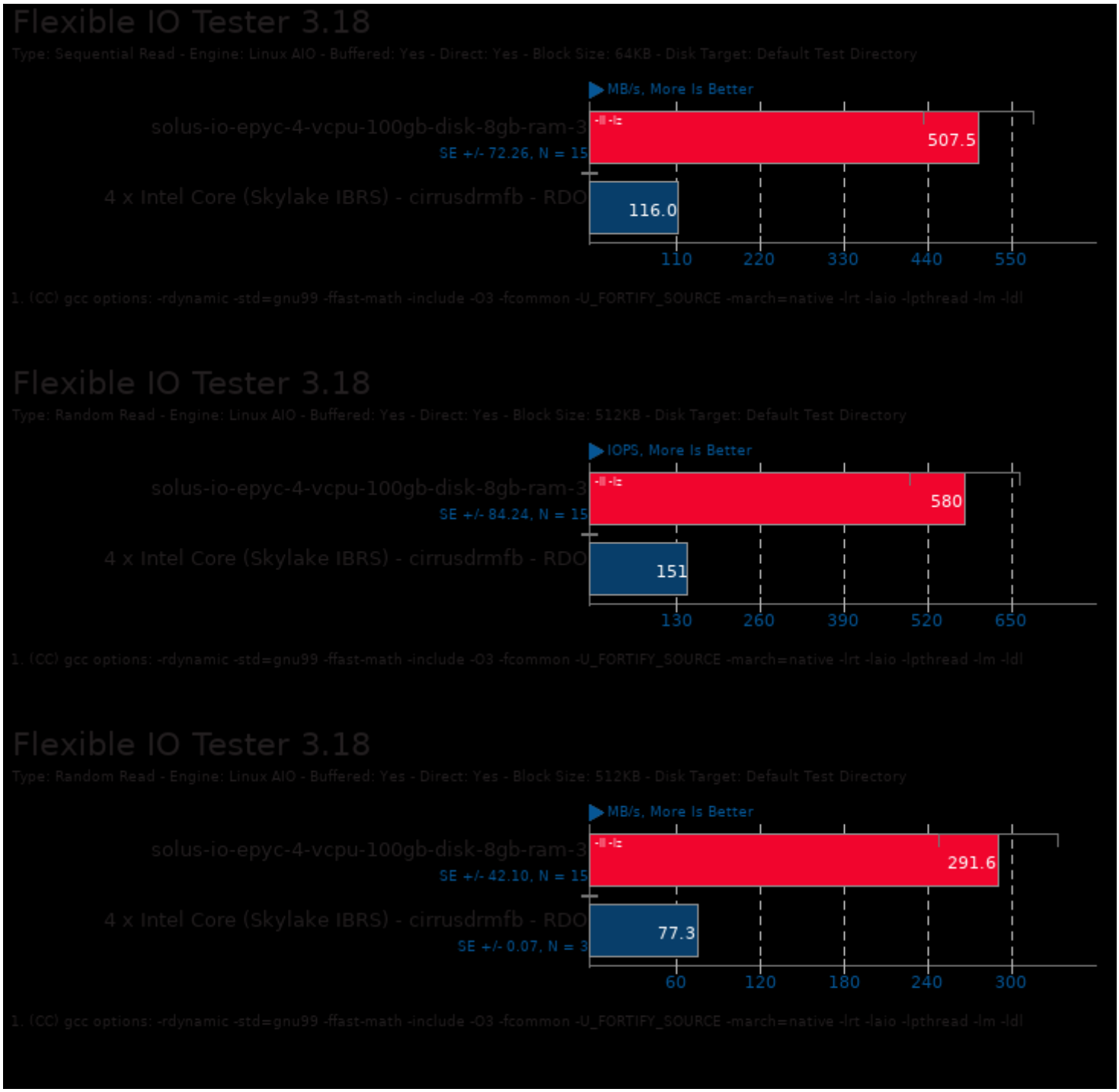

Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 9.70, N = 15
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
91
14
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 77.92, N = 15
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.33, N = 3
759
141
160
320
480
640
800
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 7.90, N = 15
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
81
14
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

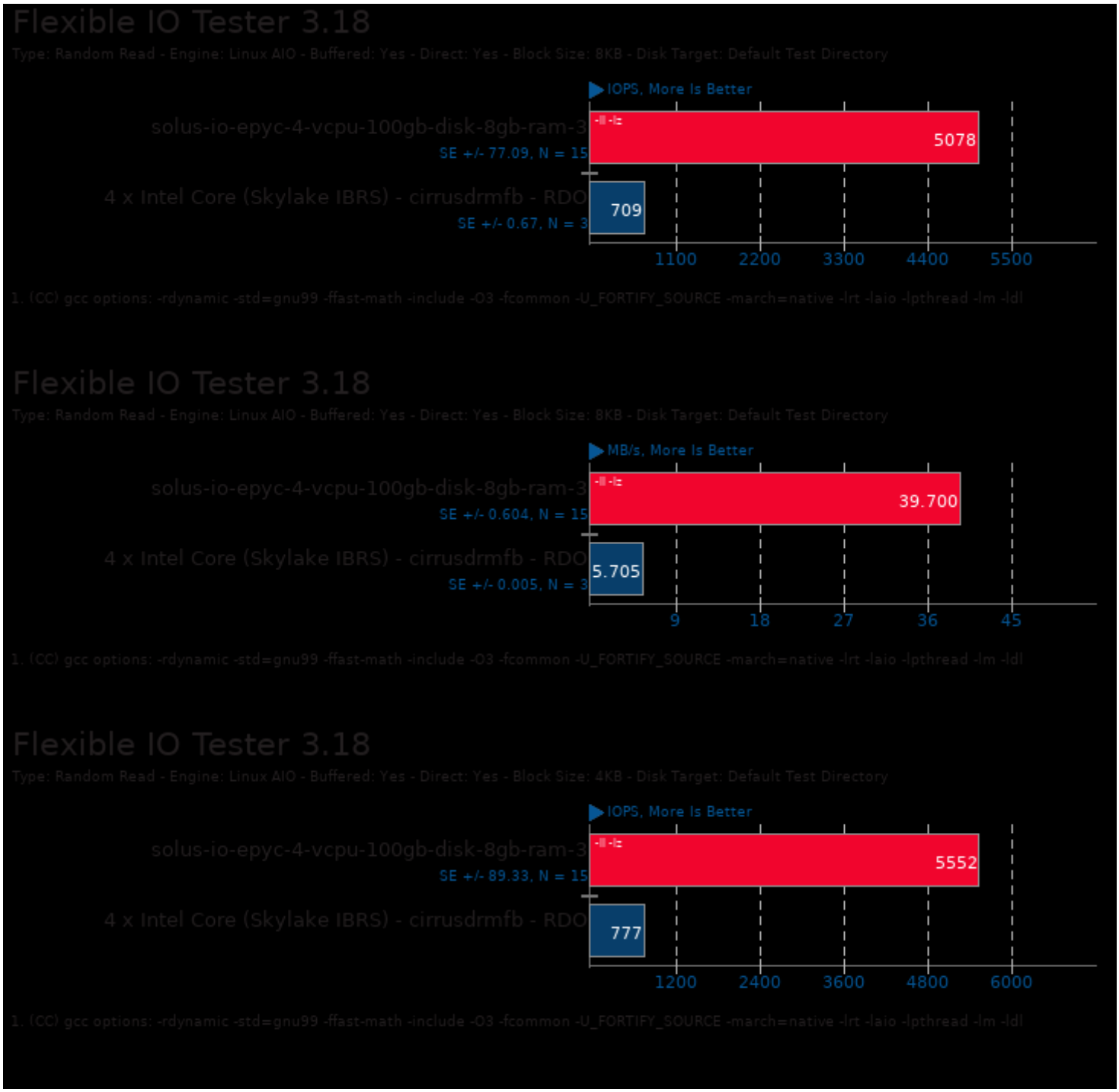

Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 63.32, N = 15
680
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
141
150
300
450
600
750
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 62.27, N = 15
843
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.88, N = 3
228
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 31.09, N = 15
423
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.58, N = 3
116
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

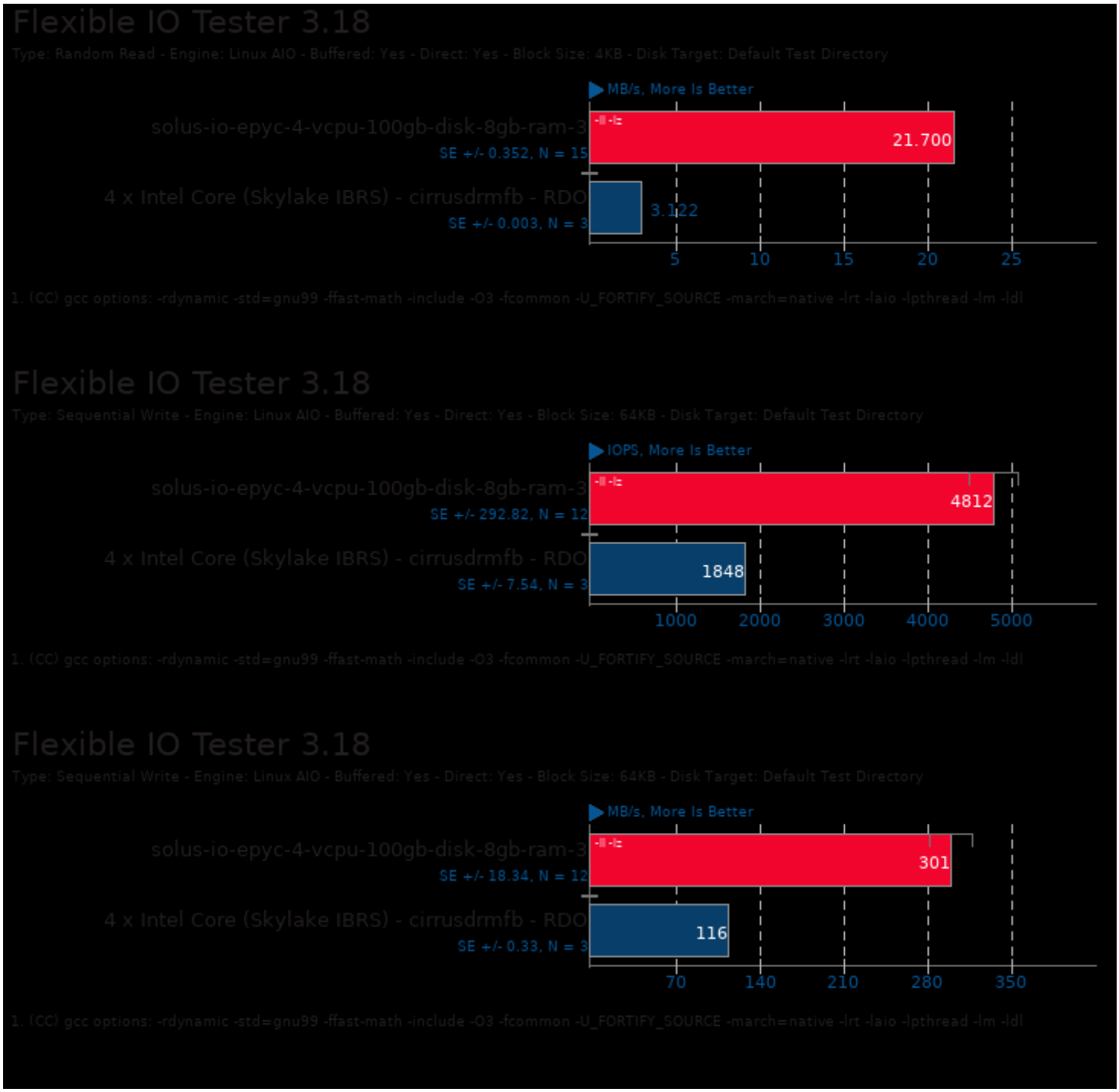

Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 110.55, N = 15
968
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 1.76, N = 3
229
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 55.23, N = 15
486
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.88, N = 3
117
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 153.34, N = 15
1157
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
233
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

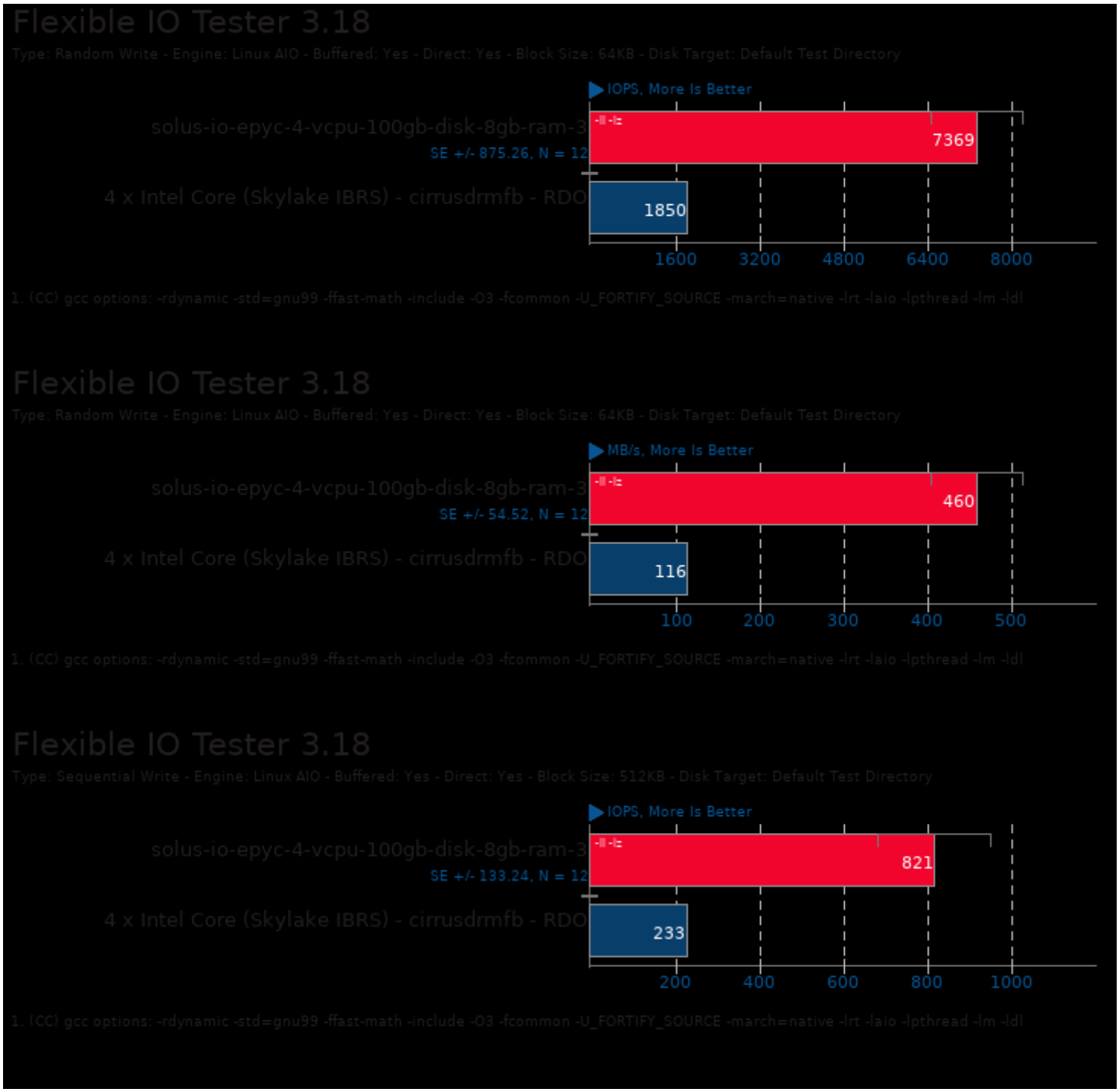

Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 76.66, N = 15
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
580
118
130
260
390
520
650
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 14.73, N = 15
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
91
14
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 118.02, N = 15
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
759
141
160
320
480
640
800
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

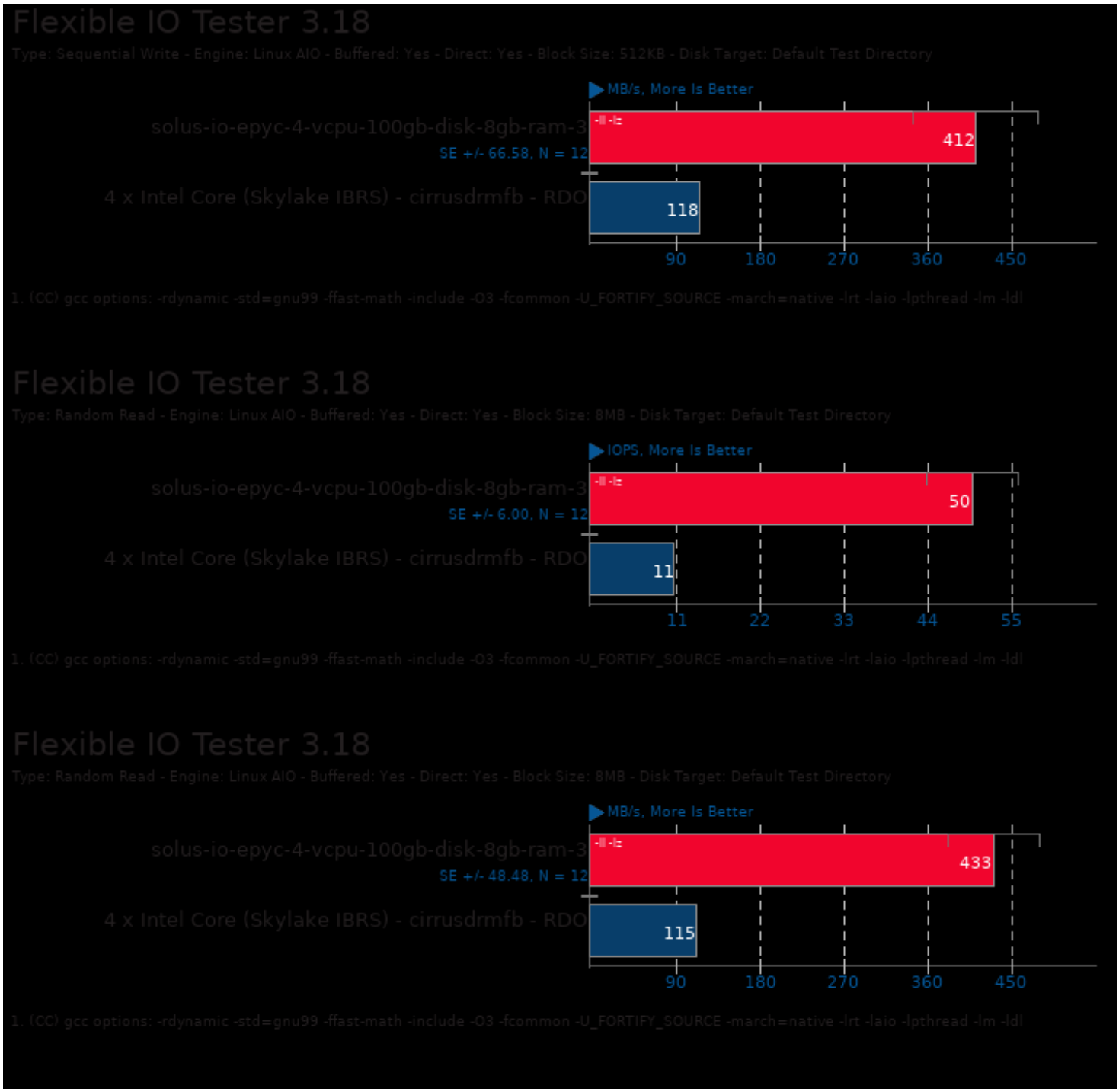

Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 70.14, N = 15
514
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.33, N = 3
232
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 35.07, N = 15
259
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.33, N = 3
118
60
120
180
240
300
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 1154.69, N = 15
8110
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.33, N = 3
1847
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

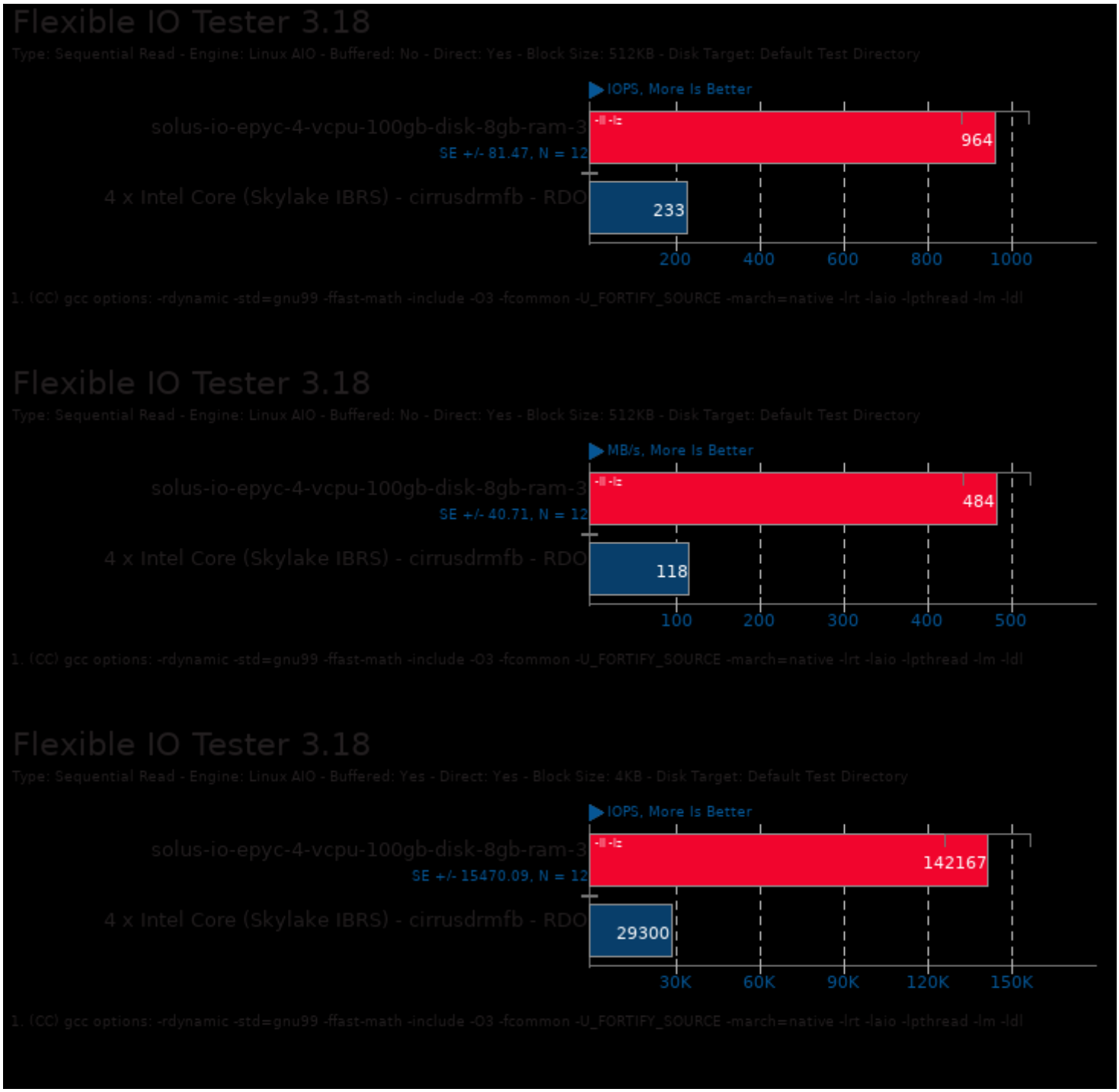

Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 72.26, N = 15
507.5
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
116.0
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 84.24, N = 15
580
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
151
130
260
390
520
650
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 42.10, N = 15
291.6
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.07, N = 3
77.3
60
120
180
240
300
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

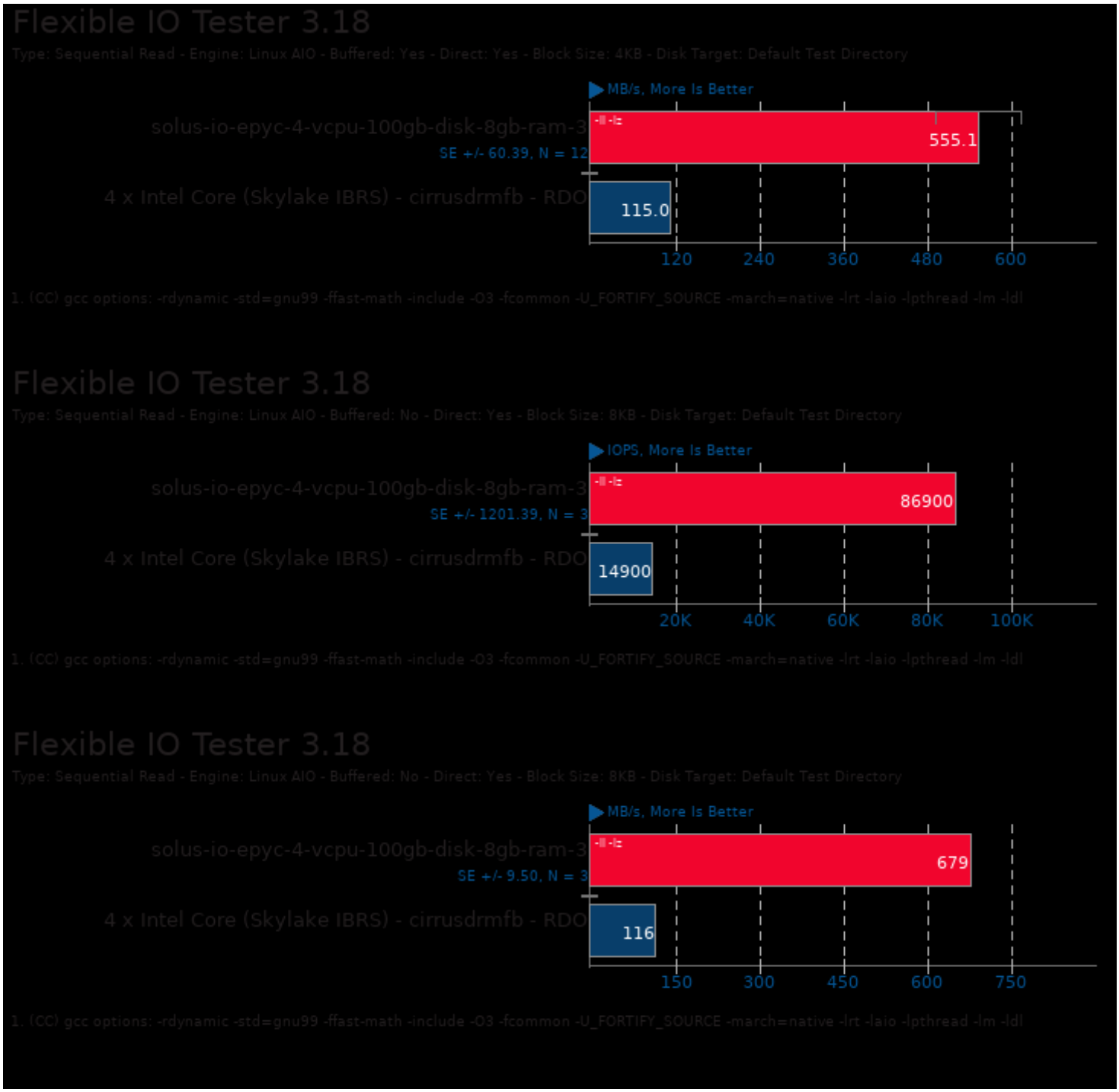

Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 77.09, N = 15
5078
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.67, N = 3
709
1100
2200
3300
4400
5500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 0.604, N = 15
39.700
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.005, N = 3
5.705
9
18
27
36
45
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 89.33, N = 15
5552
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
777
1200
2400
3600
4800
6000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

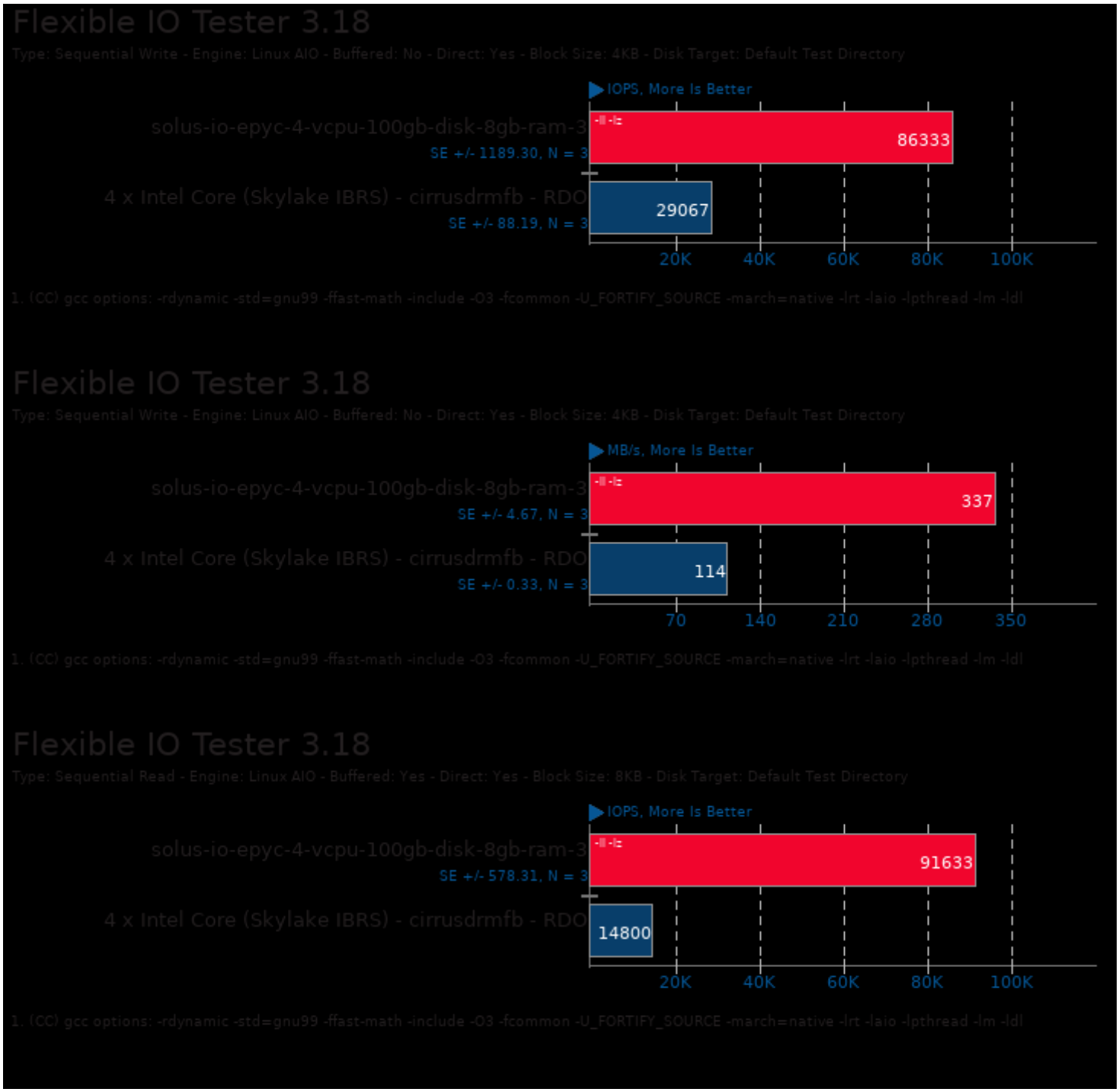

Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 0.352, N = 15
21.700
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.003, N = 3
3.122
5
10
15
20
25
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 292.82, N = 12
4812
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 7.54, N = 3
1848
1000
2000
3000
4000
5000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 18.34, N = 12
301
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.33, N = 3
116
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

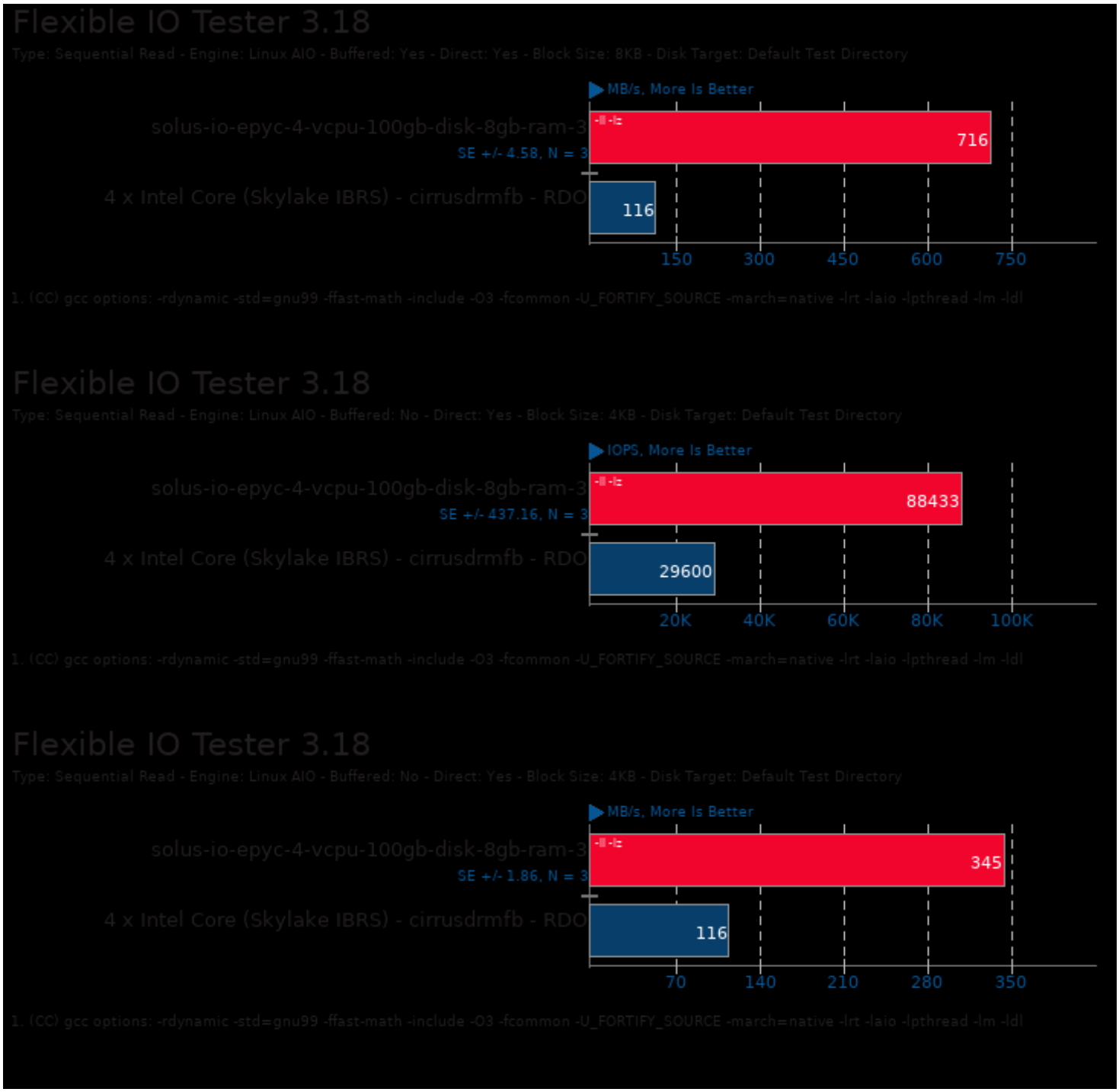

Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 875.26, N = 12
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
7369
1850
1600
3200
4800
6400
8000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 54.52, N = 12
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
460
116
100
200
300
400
500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 133.24, N = 12
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
821
233
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

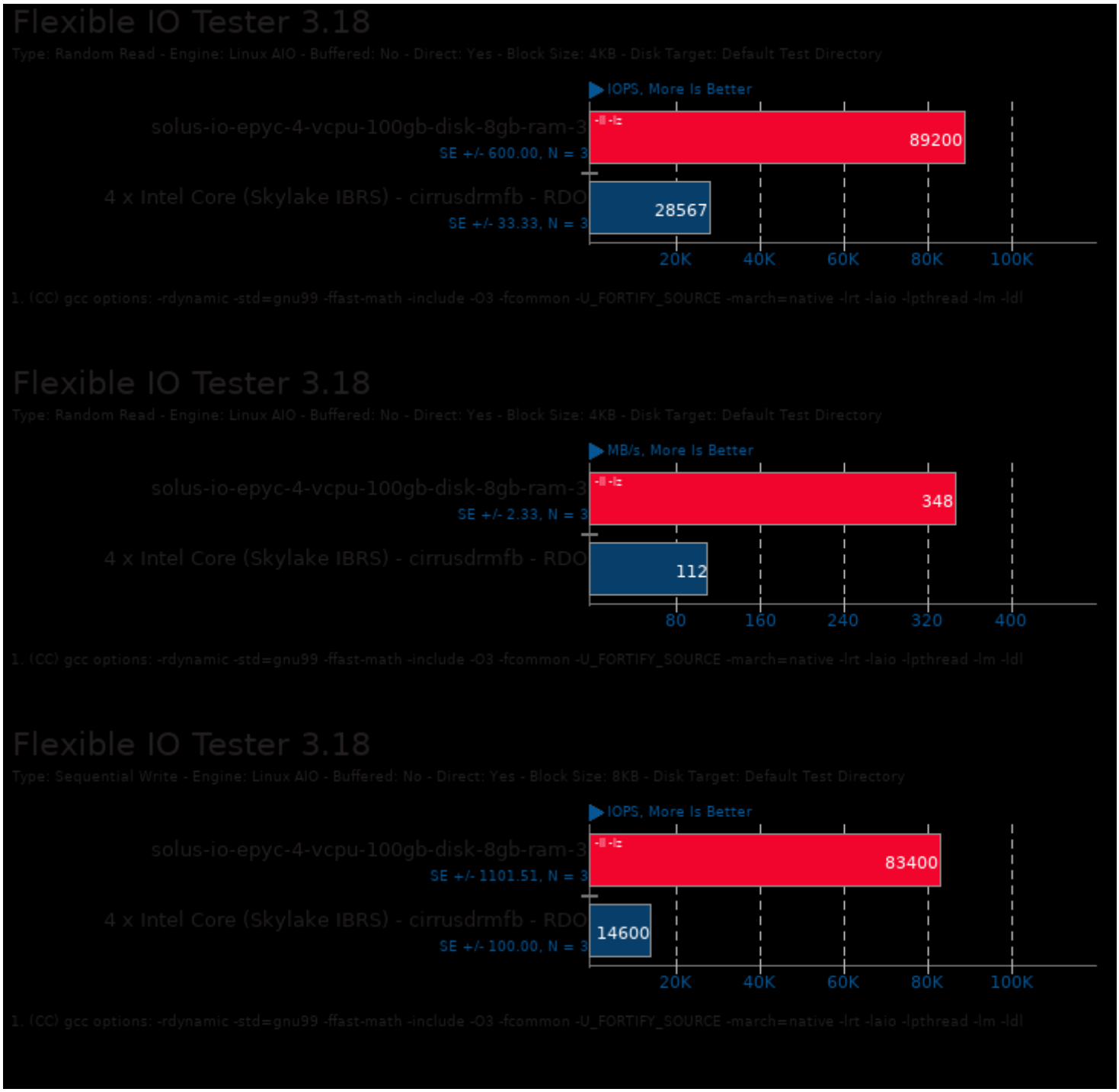

Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 66.58, N = 12
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
412
118
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 6.00, N = 12
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
50
11
11
22
33
44
55
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 48.48, N = 12
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
433
115
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

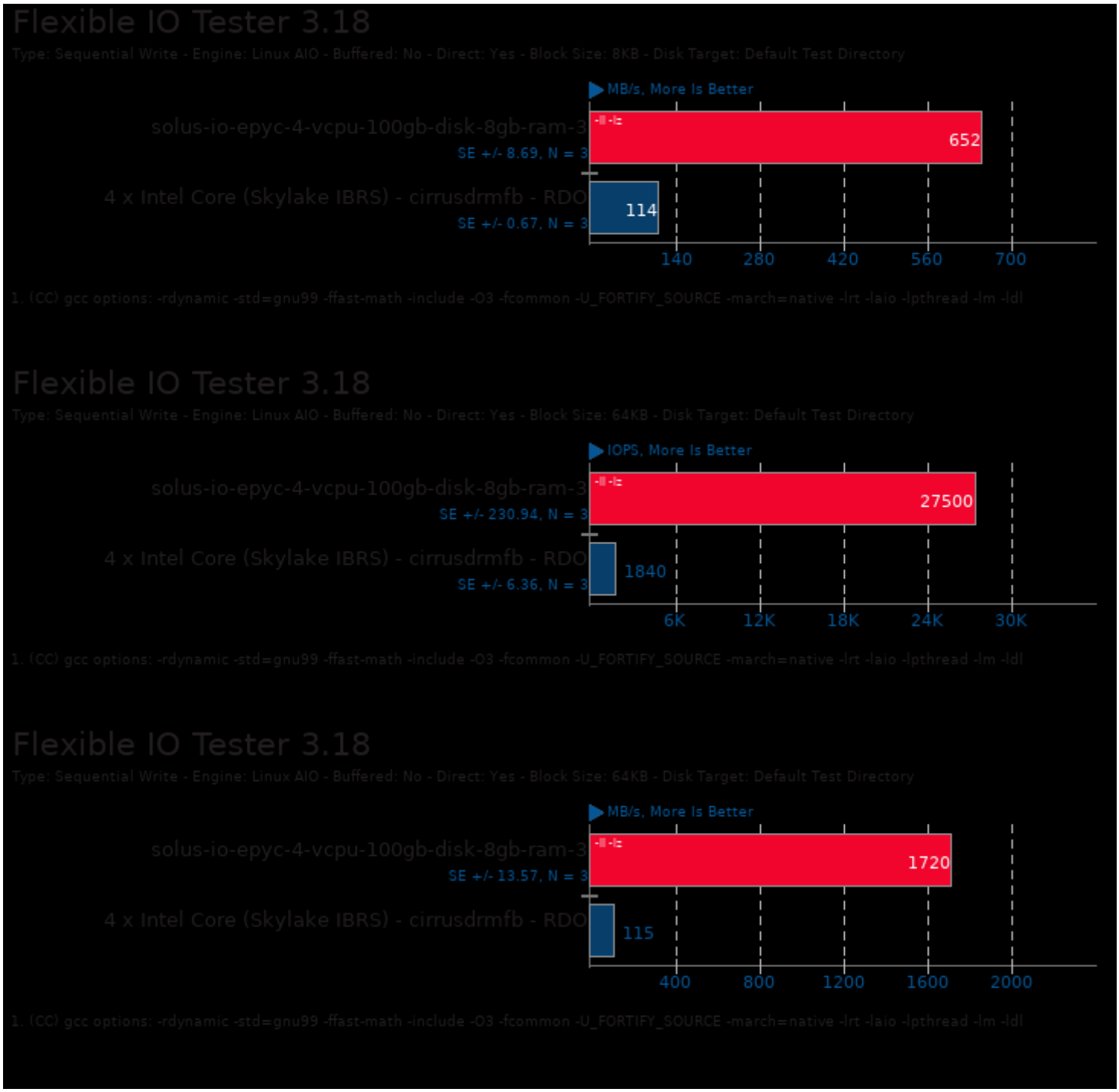

Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 81.47, N = 12
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
964
233
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 40.71, N = 12
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
484
118
100
200
300
400
500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 15470.09, N = 12
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
142167
29300
30K
60K
90K
120K
150K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

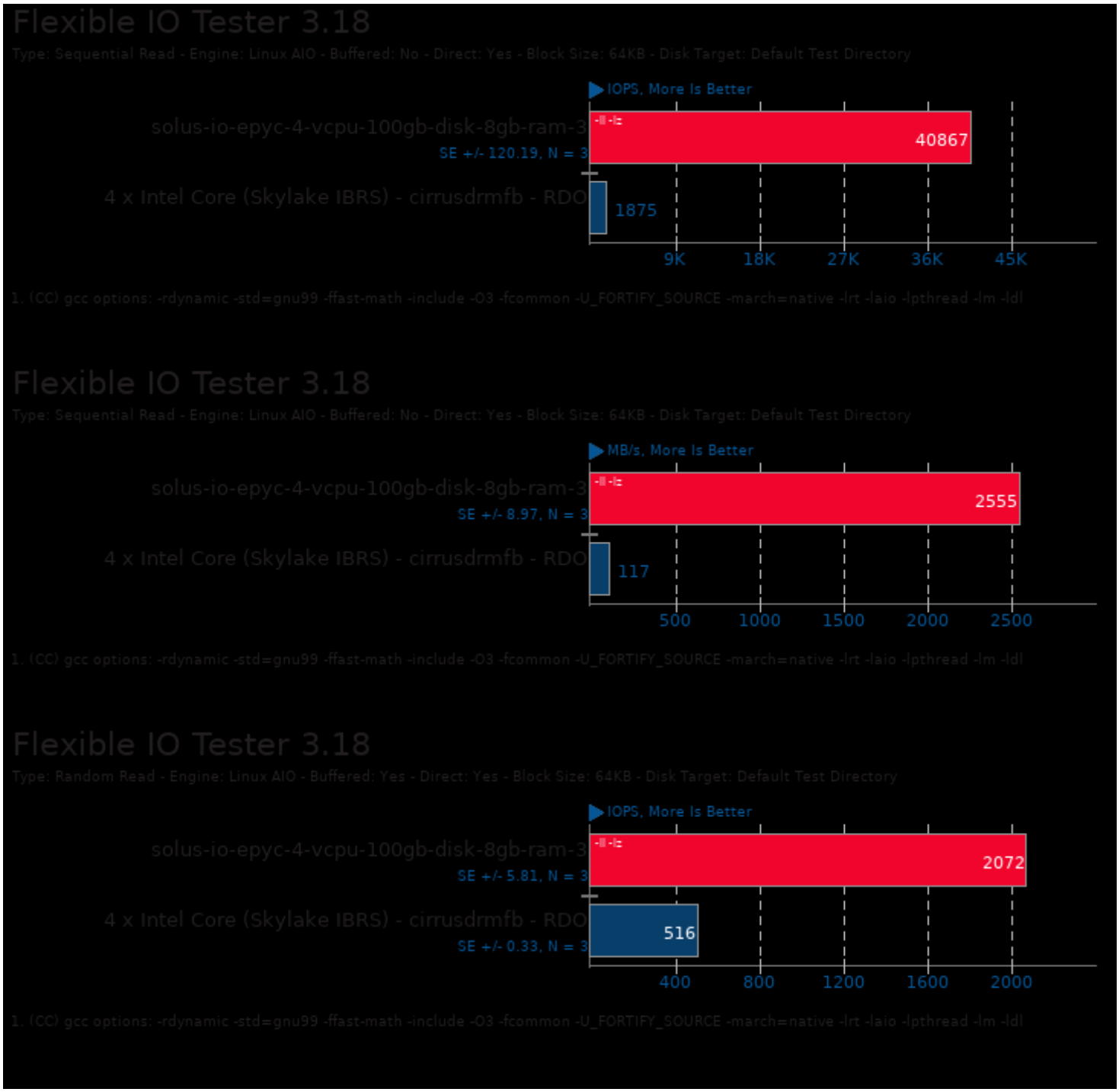

Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
555.1
115.0
120
240
360
480
600
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
86900
14900
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
679
116
150
300
450
600
750
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

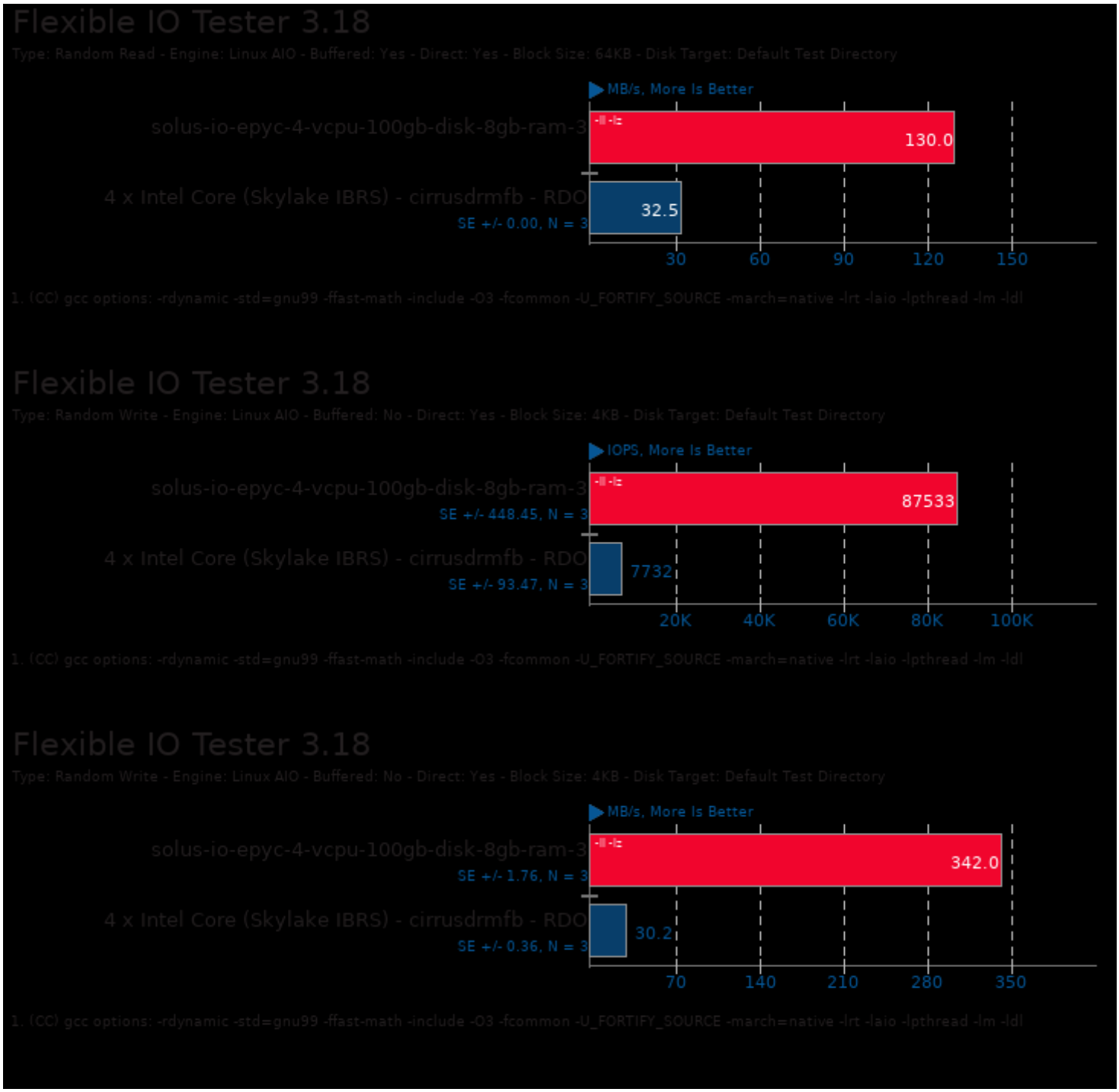

Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 1189.30, N = 3
86333
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 88.19, N = 3
29067
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 4.67, N = 3
337
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.33, N = 3
114
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 578.31, N = 3
91633
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
14800
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

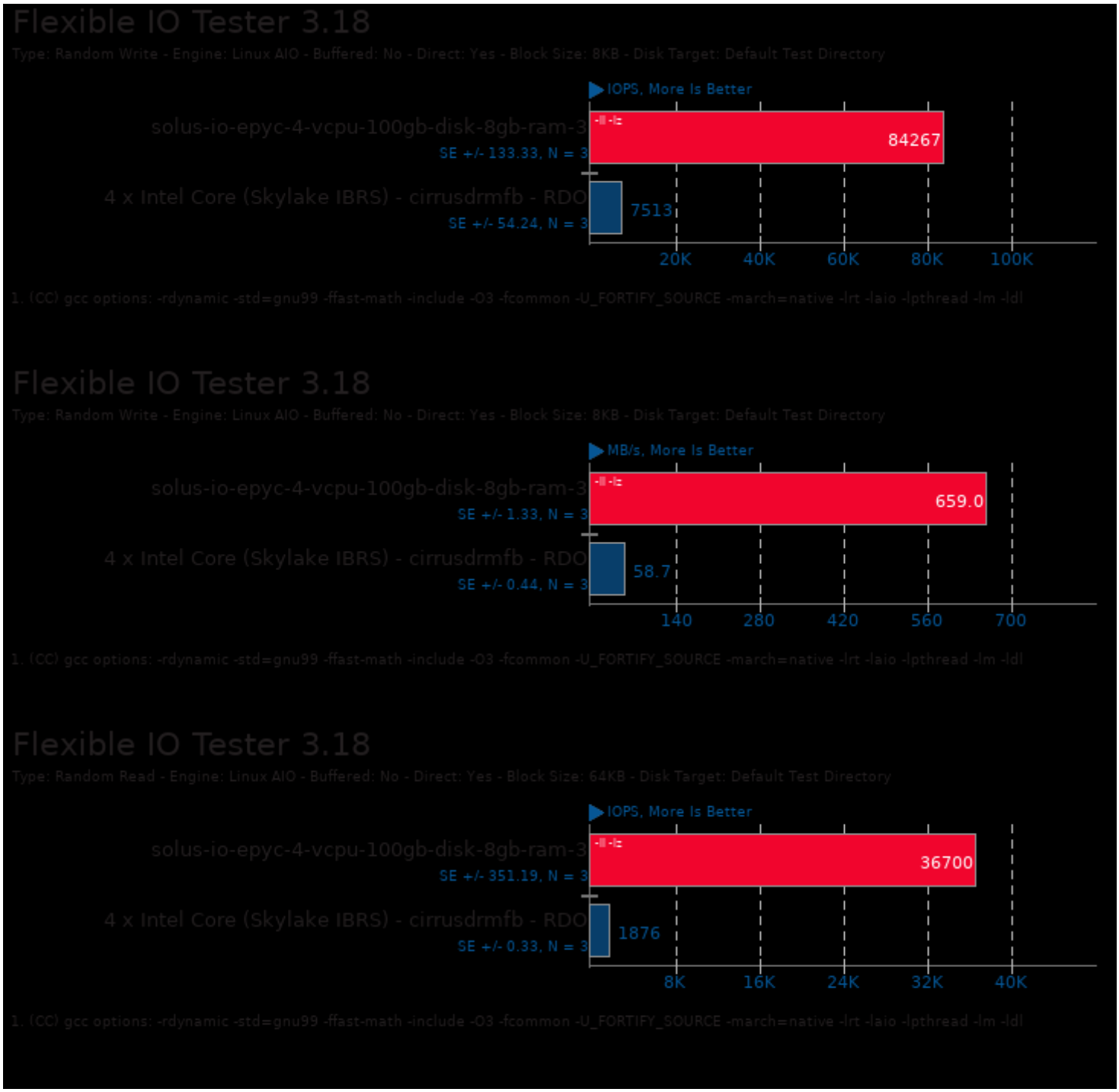

Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 4.58, N = 3
716
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
116
150
300
450
600
750
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 437.16, N = 3
88433
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
29600
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 1.86, N = 3
345
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
116
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

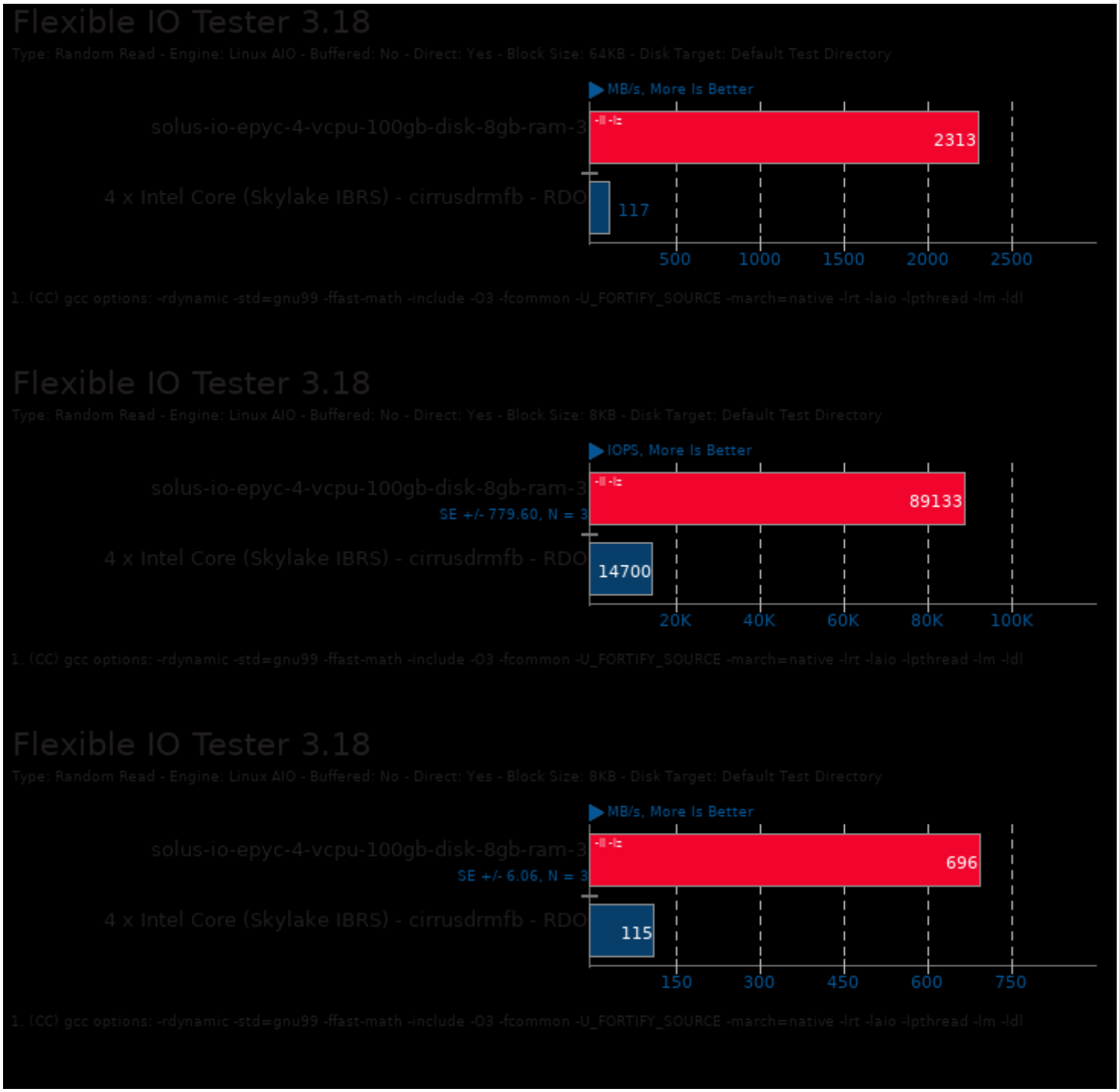

Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 600.00, N = 3
89200
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 33.33, N = 3
28567
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 2.33, N = 3
348
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
112
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 1101.51, N = 3
83400
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 100.00, N = 3
14600
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

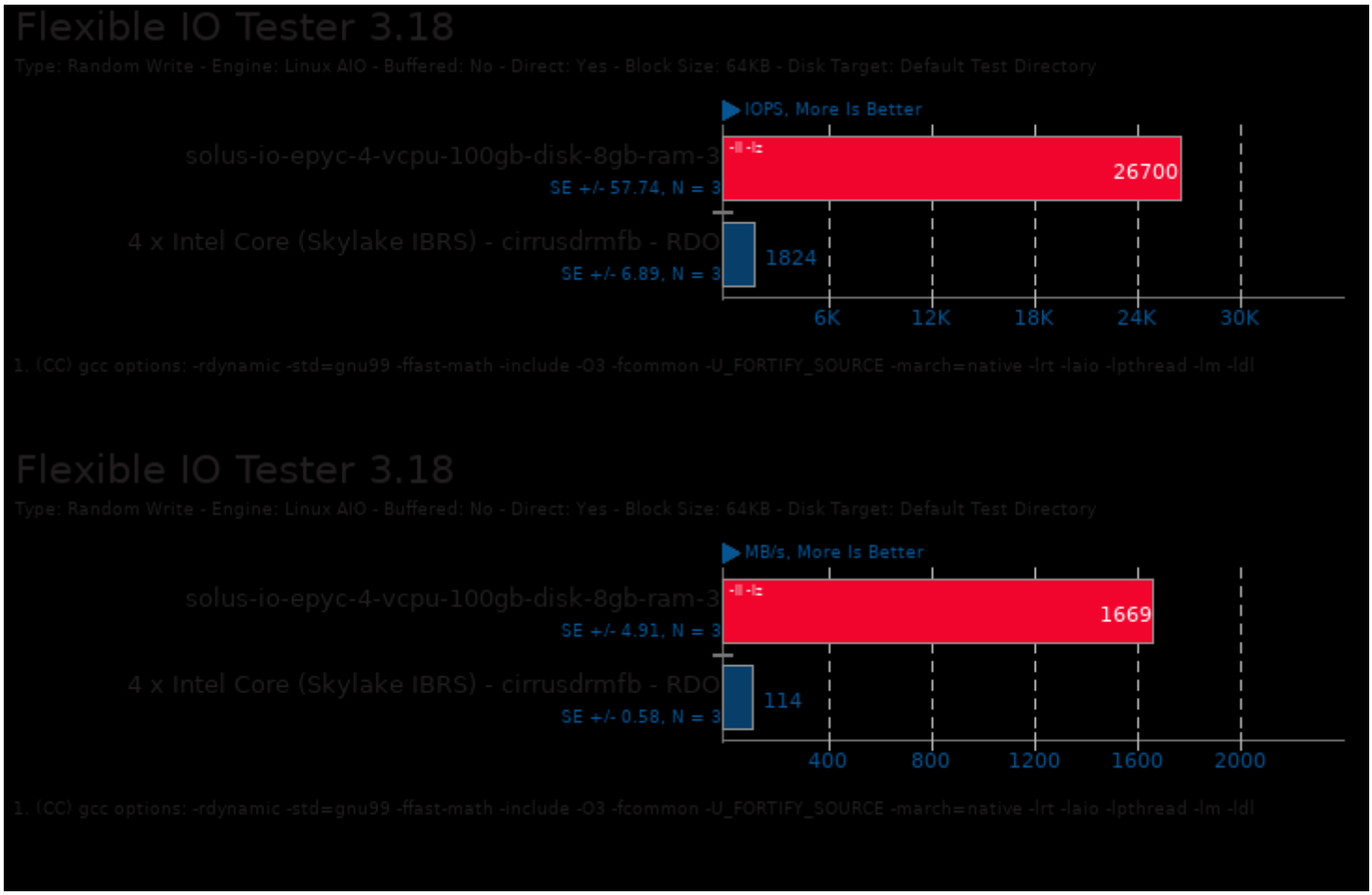

Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 8.69, N = 3
652
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.67, N = 3
114
140
280
420
560
700
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 230.94, N = 3
27500
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 6.36, N = 3
1840
6K
12K
18K
24K
30K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 13.57, N = 3
1720
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
115
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 120.19, N = 3
40867
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
1875
9K
18K
27K
36K
45K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 8.97, N = 3
2555
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
117
500
1000
1500
2000
2500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 5.81, N = 3
2072
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.33, N = 3
516
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
130.0
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
32.5
SE +/- 0.00, N = 3
30
60
90
120
150
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
87533
SE +/- 448.45, N = 3
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
7732
SE +/- 93.47, N = 3
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
342.0
SE +/- 1.76, N = 3
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
30.2
SE +/- 0.36, N = 3
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 133.33, N = 3
84267
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 54.24, N = 3
7513
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 1.33, N = 3
659.0
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.44, N = 3
58.7
140
280
420
560
700
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 351.19, N = 3
36700
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
SE +/- 0.33, N = 3
1876
8K
16K
24K
32K
40K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
2313
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
117
500
1000
1500
2000
2500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 779.60, N = 3
89133
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
14700
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
solus-io-epyc-4-vcpu-100gb-disk-8gb-ram-3
SE +/- 6.06, N = 3
696
4 x Intel Core (Skylake IBRS) - cirrusdrmfb - RDO
115
150
300
450
600
750
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:22.