

www.phoronix-test-suite.com

disk-test-proxmox-nester-vm

KVM testing on Ubuntu 18.04 via the Phoronix Test Suite.

Test Systems:

QEMU HDD

proxmox nester

proxmox nested

Processor: 2 x Common KVM (4 Cores), Motherboard: QEMU Standard PC (i440FX + PIIX 1996) (rel-1.16.0-0-gd239552ce722-prebuilt.qemu.org BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1 x 2048 MB RAM QEMU, Disk: 19GB QEMU HDD, Graphics: bochsdrmfb, Network: Red Hat Virtio device

OS: Ubuntu 18.04, Kernel: 4.15.0-192-generic (x86_64), Compiler: GCC 7.5.0, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

disk-test-proxmox-nester-vm

Kernel Notes: Transparent Huge Pages: madvise
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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Disk Notes: NONE / data=ordered,relatime,rw / Block Size: 4096
Processor Notes: CPU Microcode: 0x1
Python Notes: Python 3.6.9
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + mmio_stale_data: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

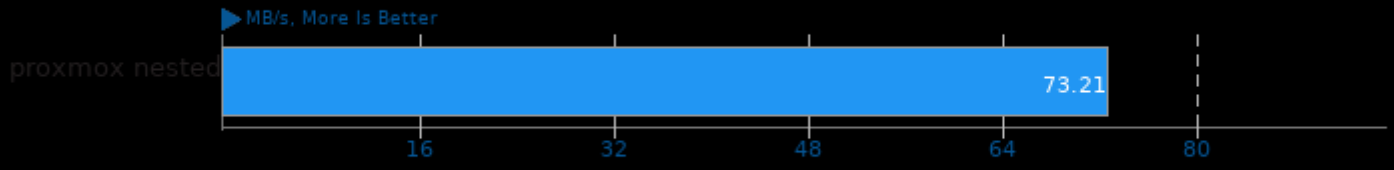
	QEMU HDD	proxmox nester	proxmox nested
Dbench - 12 Clients (MB/s)			73.2087
Dbench - 1 Clients (MB/s)			22.2405
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 2MB (MB/s)			**1828**
Normalized			100%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 2MB (IOPS)			**911**
Normalized			100%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (MB/s)			59.4
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (IOPS)			15200
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 2MB (MB/s)			17.7
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 2MB (IOPS)			6
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (MB/s)			0.971
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (IOPS)			239
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 2MB (MB/s)			1966
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 2MB (IOPS)			979
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)			58.5
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)			15000
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 2MB (MB/s)			23.9
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 2MB (IOPS)			10
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)			9.244

disk-test-proxmox-nester-vm

Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	2307
IOR - 2MB - / (MB/s)	31.16
IOR - 4MB - / (MB/s)	39.76
IOR - 8MB - / (MB/s)	26.82
IOR - 16MB - / (MB/s)	19.92
IOR - 32MB - / (MB/s)	25.21
IOR - 64MB - / (MB/s)	36.27
IOR - 2MB - /tmp (MB/s)	37.28
IOR - 2MB - /var (MB/s)	51.45
IOR - 4MB - /tmp (MB/s)	44.66
IOR - 4MB - /var (MB/s)	27.84
IOR - 8MB - /tmp (MB/s)	28.03
IOR - 8MB - /var (MB/s)	20.98
IOR - 16MB - /tmp (MB/s)	27
IOR - 16MB - /var (MB/s)	33.27
IOR - 32MB - /tmp (MB/s)	31.2
IOR - 32MB - /var (MB/s)	22.85
IOR - 64MB - /tmp (MB/s)	26.48
IOR - 64MB - /var (MB/s)	26.03
IOR - 256MB - /tmp (MB/s)	28.1
IOR - 256MB - /var (MB/s)	33.4
IOR - 512MB - /tmp (MB/s)	36.55
IOR - 512MB - /var (MB/s)	36.93
IOR - 2MB (MB/s)	45.47
IOR - 4MB (MB/s)	52.44
IOR - 8MB (MB/s)	59.89
IOR - 16MB (MB/s)	64.73
IOR - 32MB (MB/s)	54.86
IOR - 64MB (MB/s)	47.77
IOR - 256MB (MB/s)	26.63
IOR - 512MB (MB/s)	32.84
SQLite - 1 (sec)	132.019
SQLite - 8 (sec)	434.607
SQLite - 32 (sec)	1099
SQLite - 64 (sec)	2127
SQLite - 128 (sec)	4358

Dbench 4.0

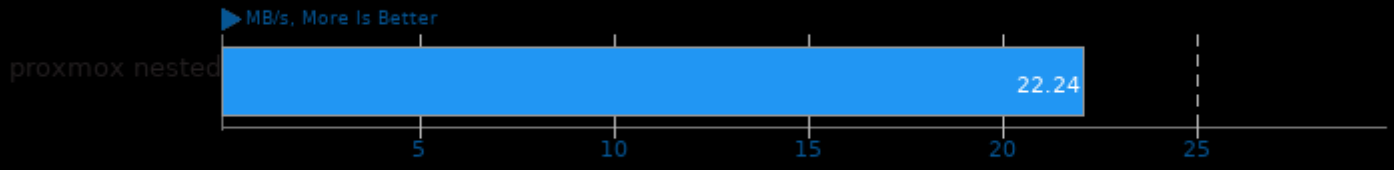
12 Clients



1. (CC) gcc options: -lpopt -O2

Dbench 4.0

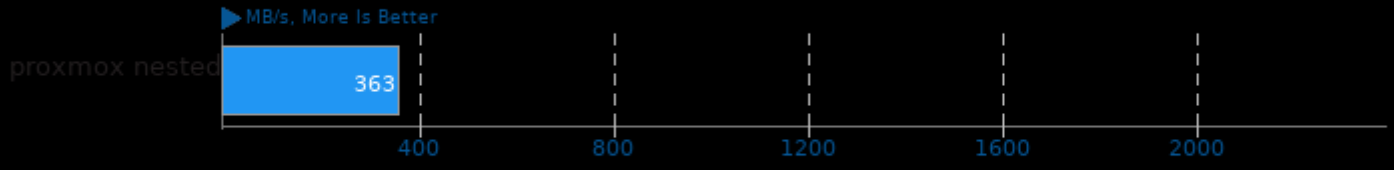
1 Clients



1. (CC) gcc options: -lpopt -O2

Flexible IO Tester 3.29

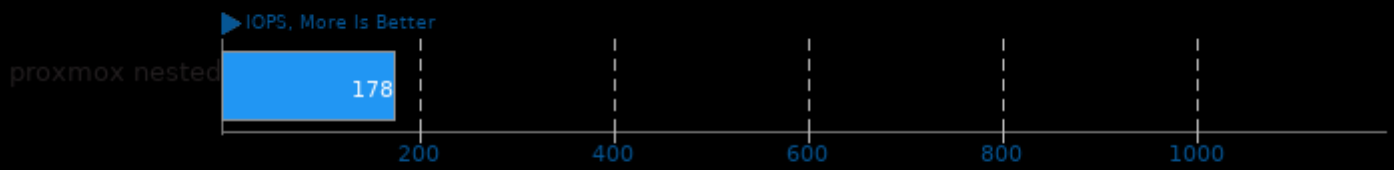
Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



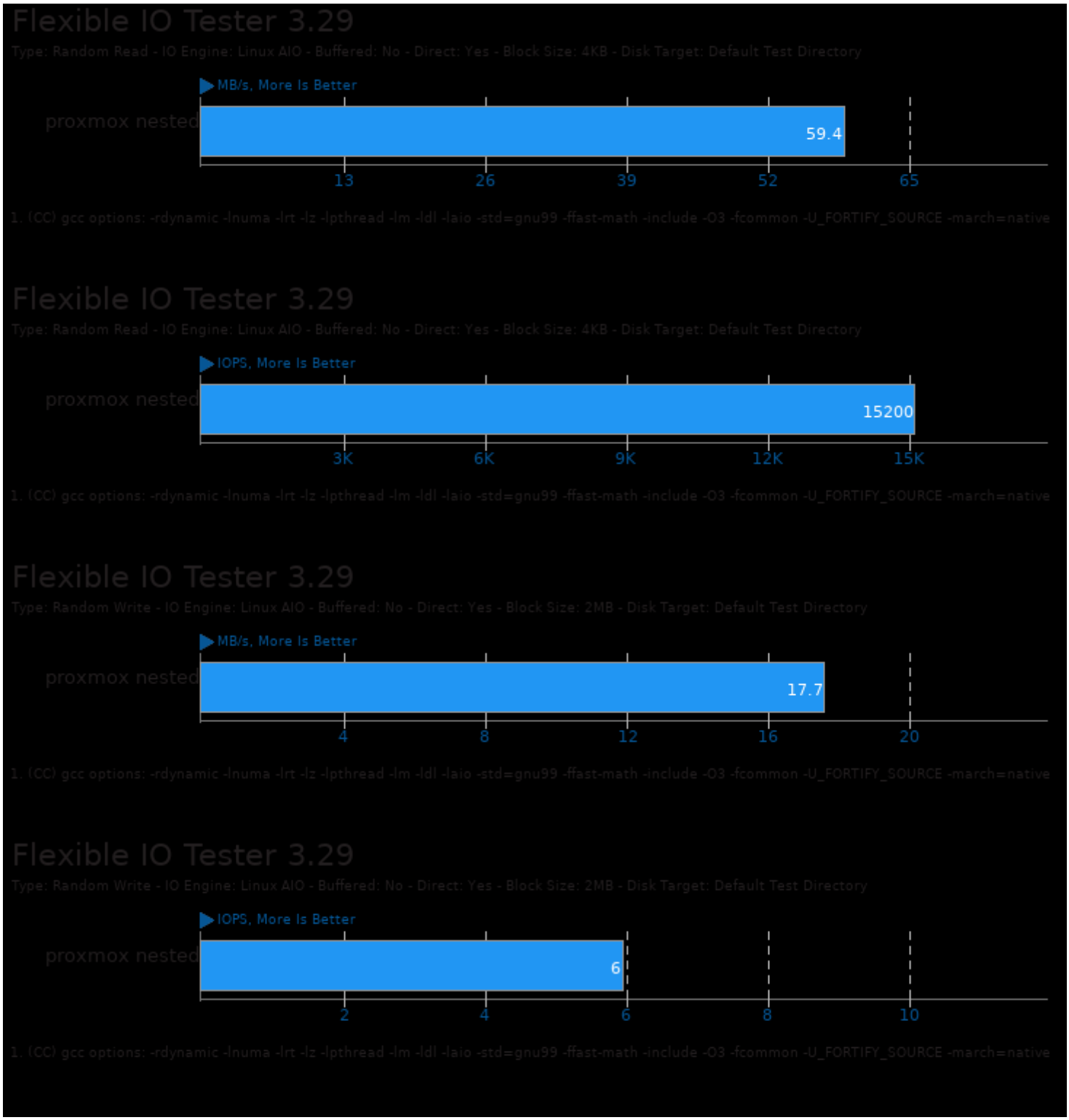
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

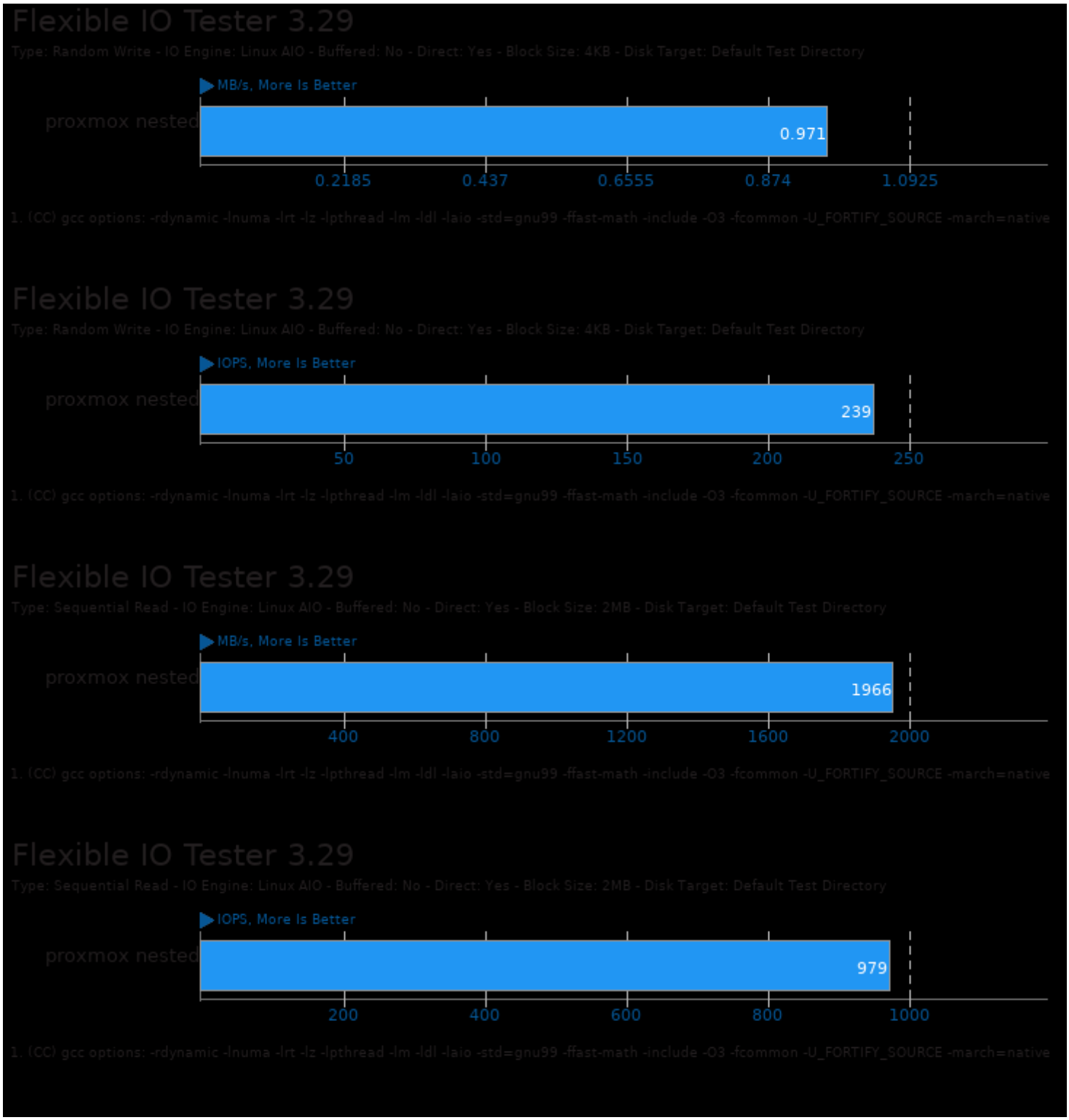
Flexible IO Tester 3.29

Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory

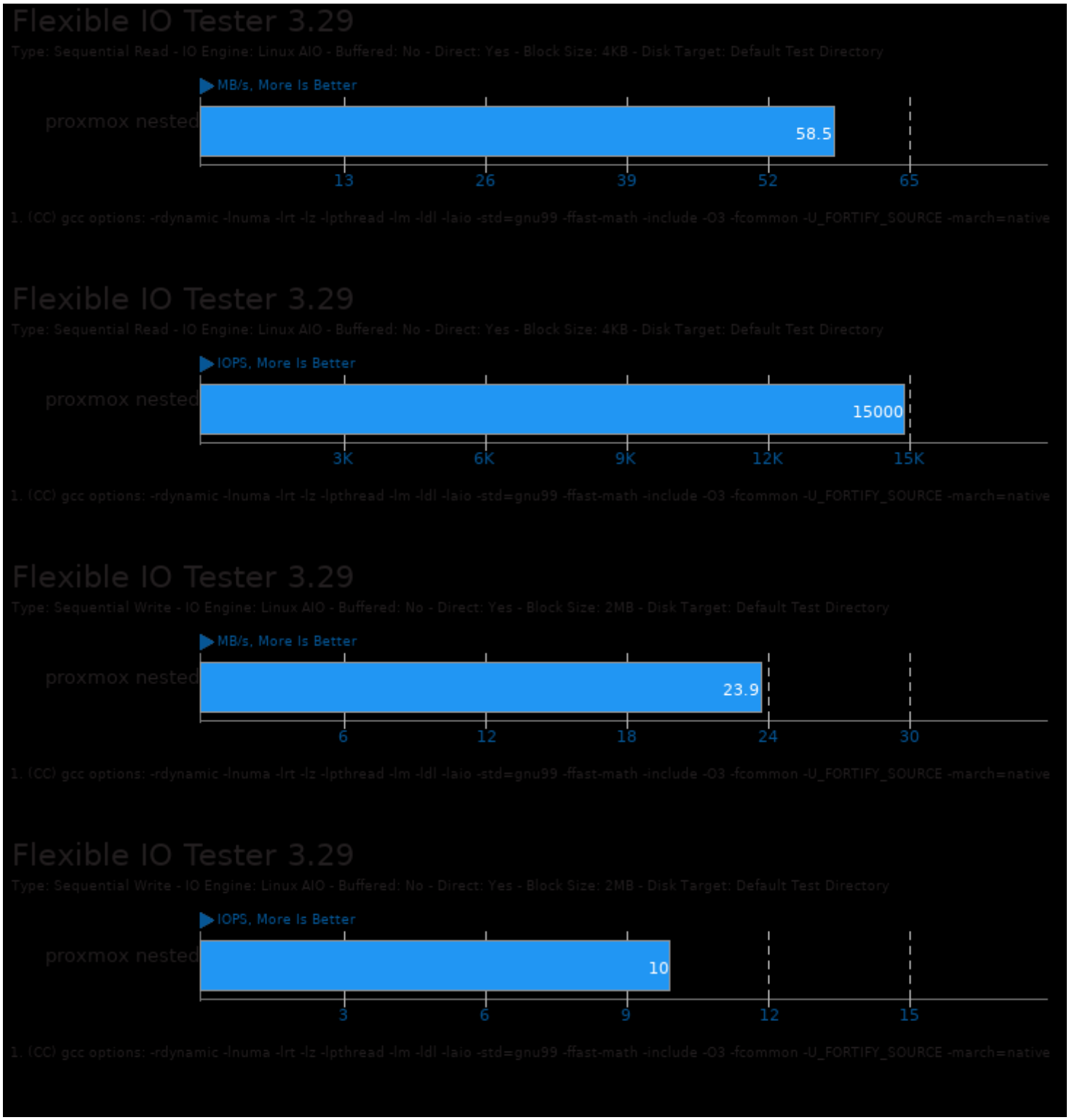


1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.29
Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
proxmox nested
59.4
13
26
39
52
65
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
proxmox nested
15200
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
proxmox nested
17.7
4
8
12
16
20
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
proxmox nested
6
2
4
6
8
10
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

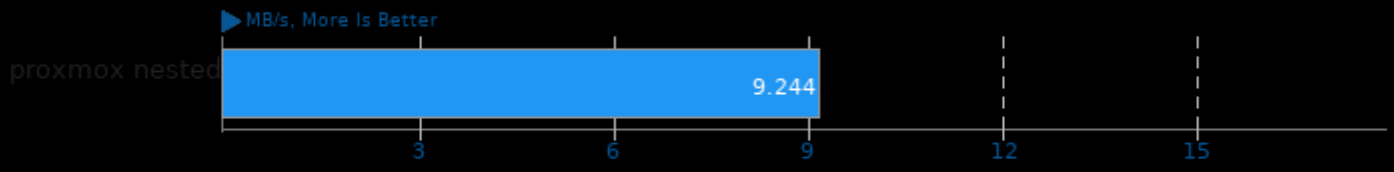

Flexible IO Tester 3.29
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
proxmox nested
0.971
0.2185
0.437
0.6555
0.874
1.0925
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
proxmox nested
239
50
100
150
200
250
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
proxmox nested
1966
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
proxmox nested
979
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

disk-test-proxmox-nester-vm



Flexible IO Tester 3.29

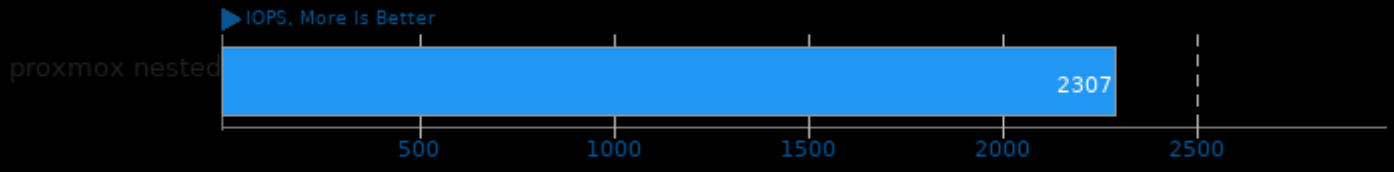
Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.29

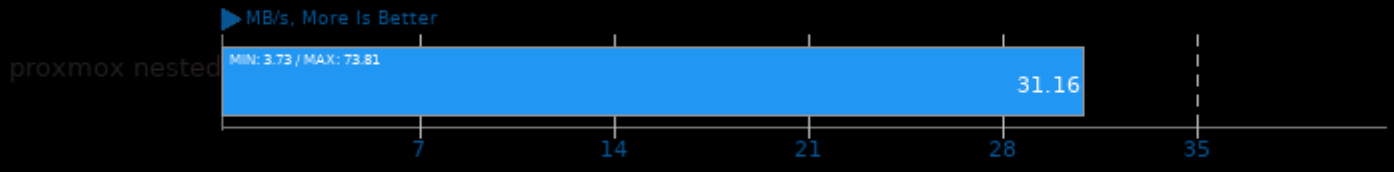
Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



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

IOR 3.3.0

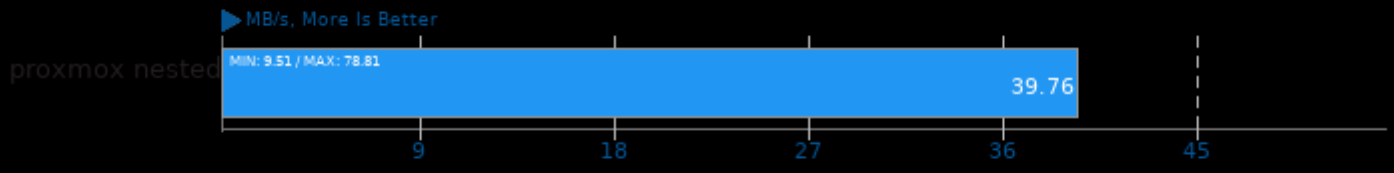
Block Size: 2MB - Disk Target: /



1. (CC) gcc options: -O2 -lm -pthread -lmpi

IOR 3.3.0

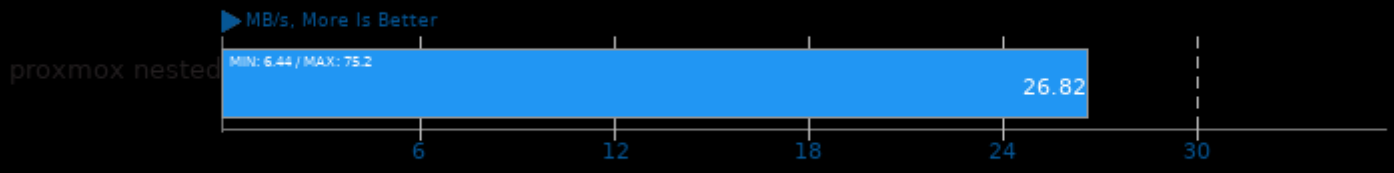
Block Size: 4MB - Disk Target: /



1. (CC) gcc options: -O2 -lm -pthread -lmpi

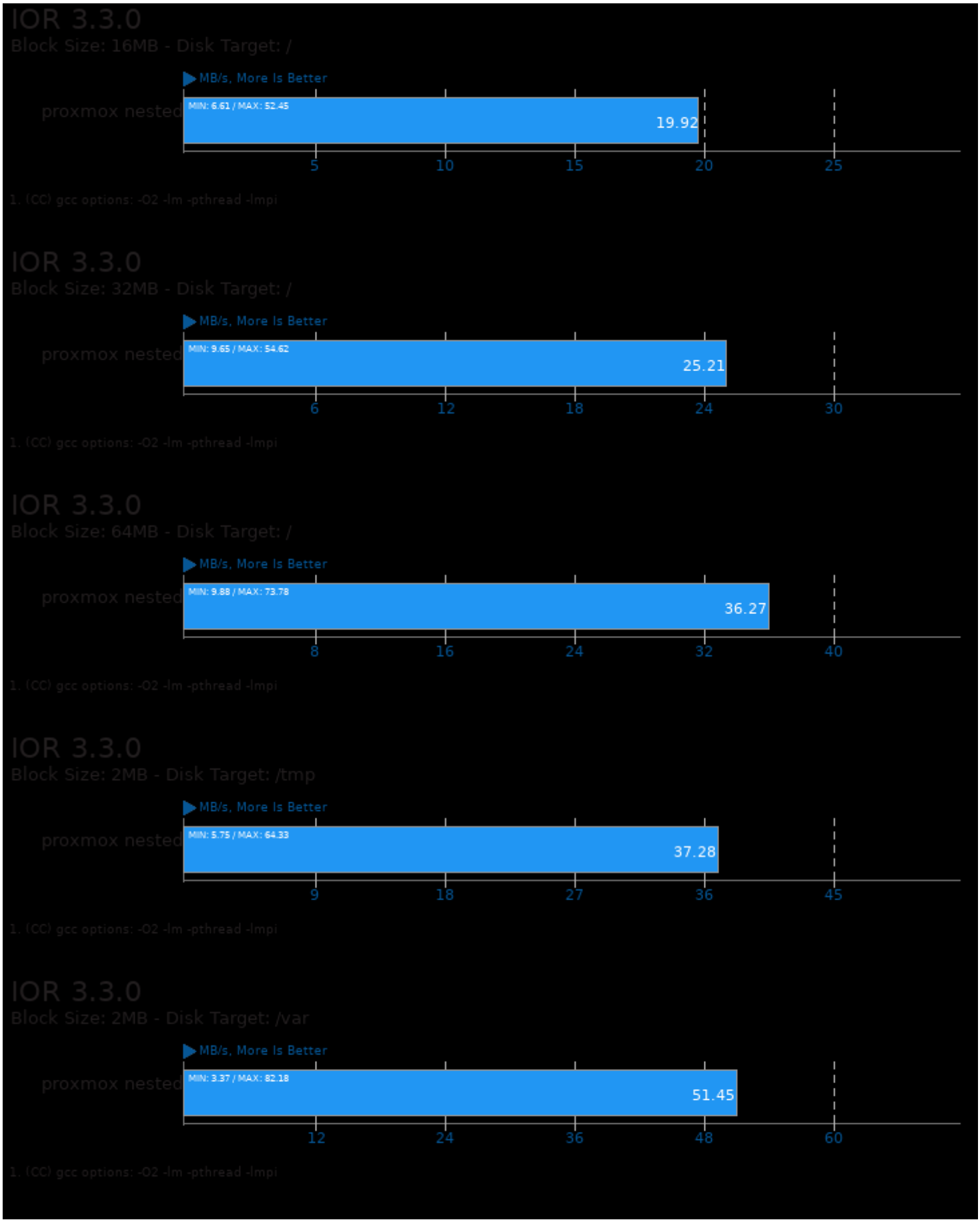
IOR 3.3.0

Block Size: 8MB - Disk Target: /

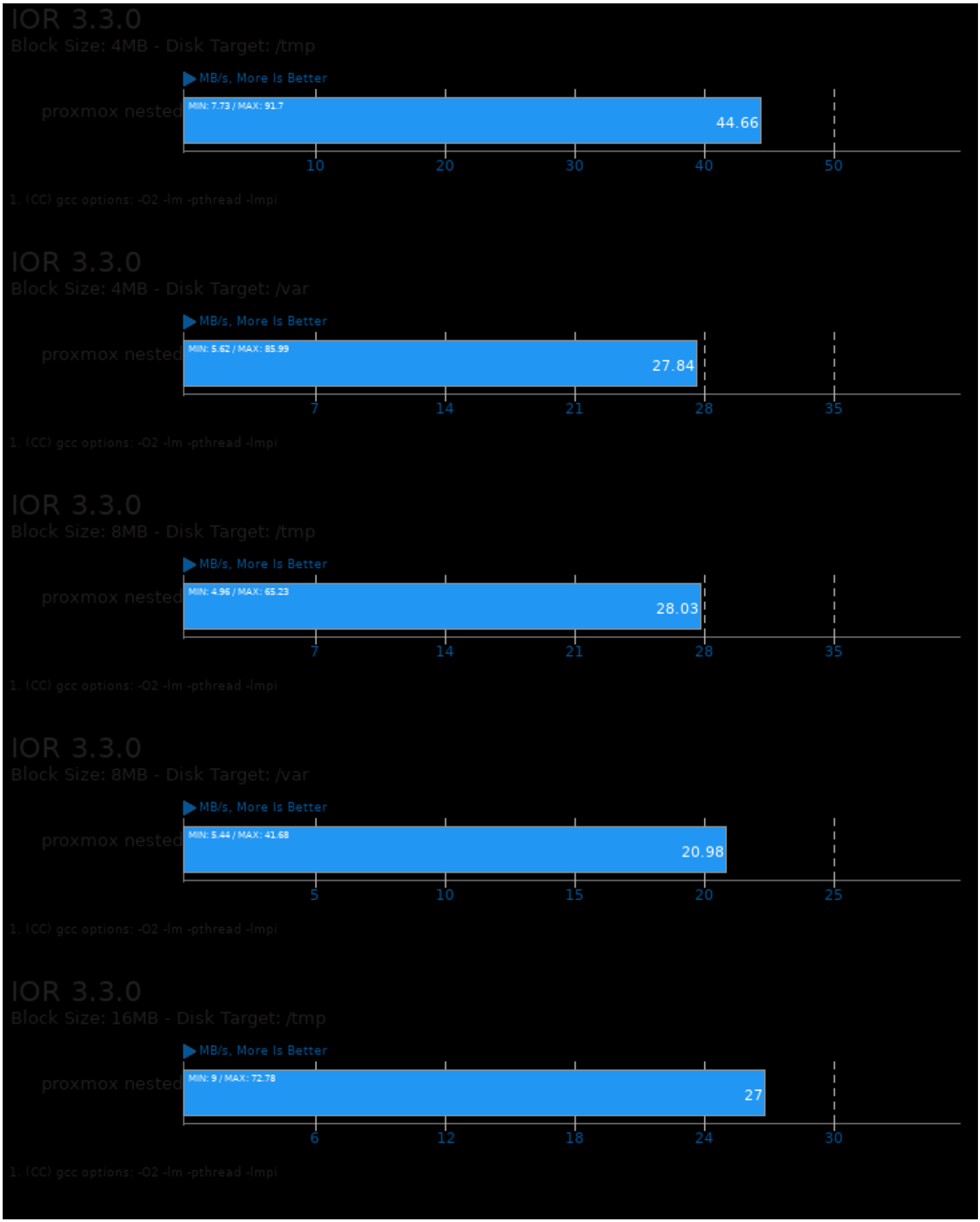


1. (CC) gcc options: -O2 -lm -pthread -lmpi

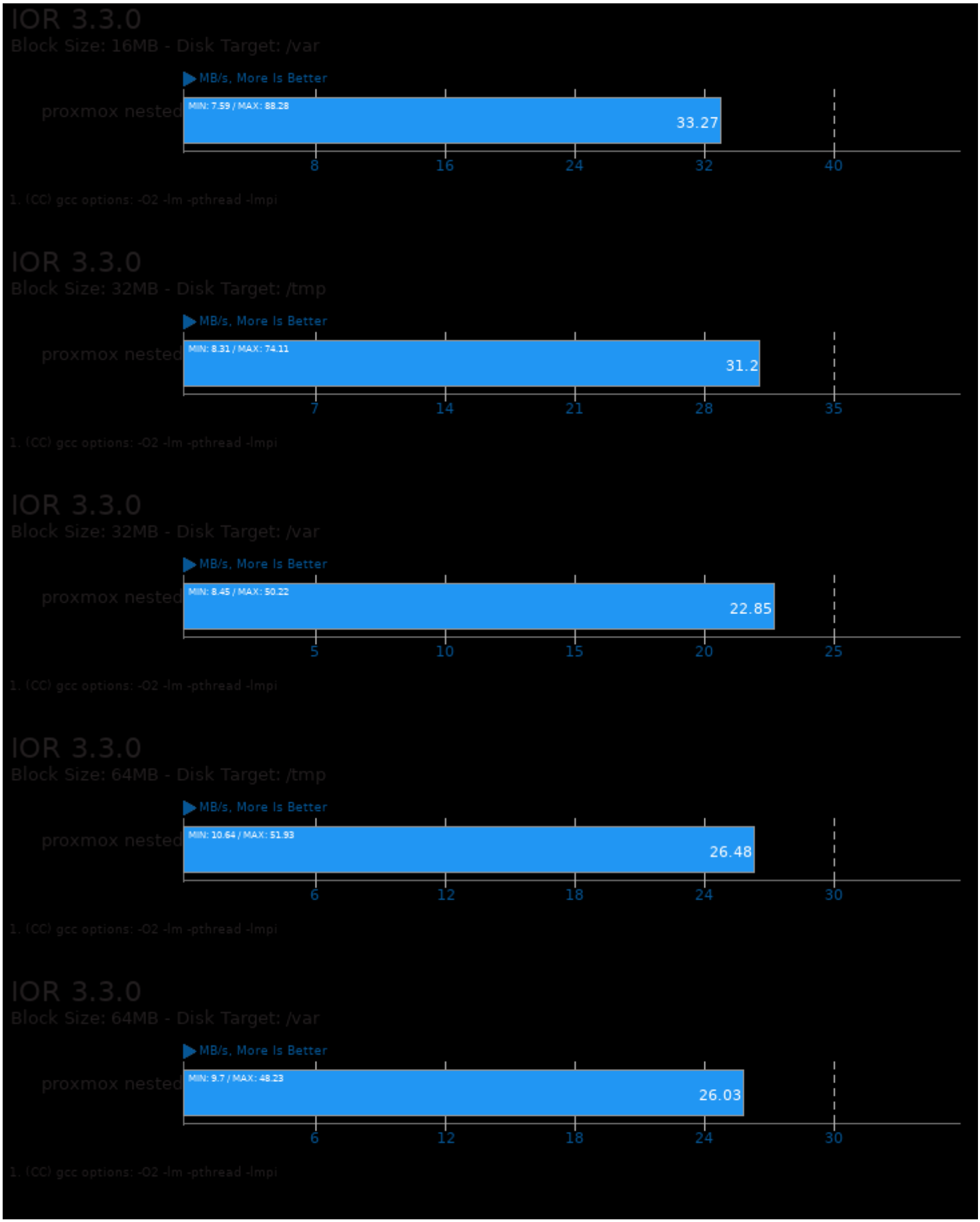
disk-test-proxmox-nester-vm

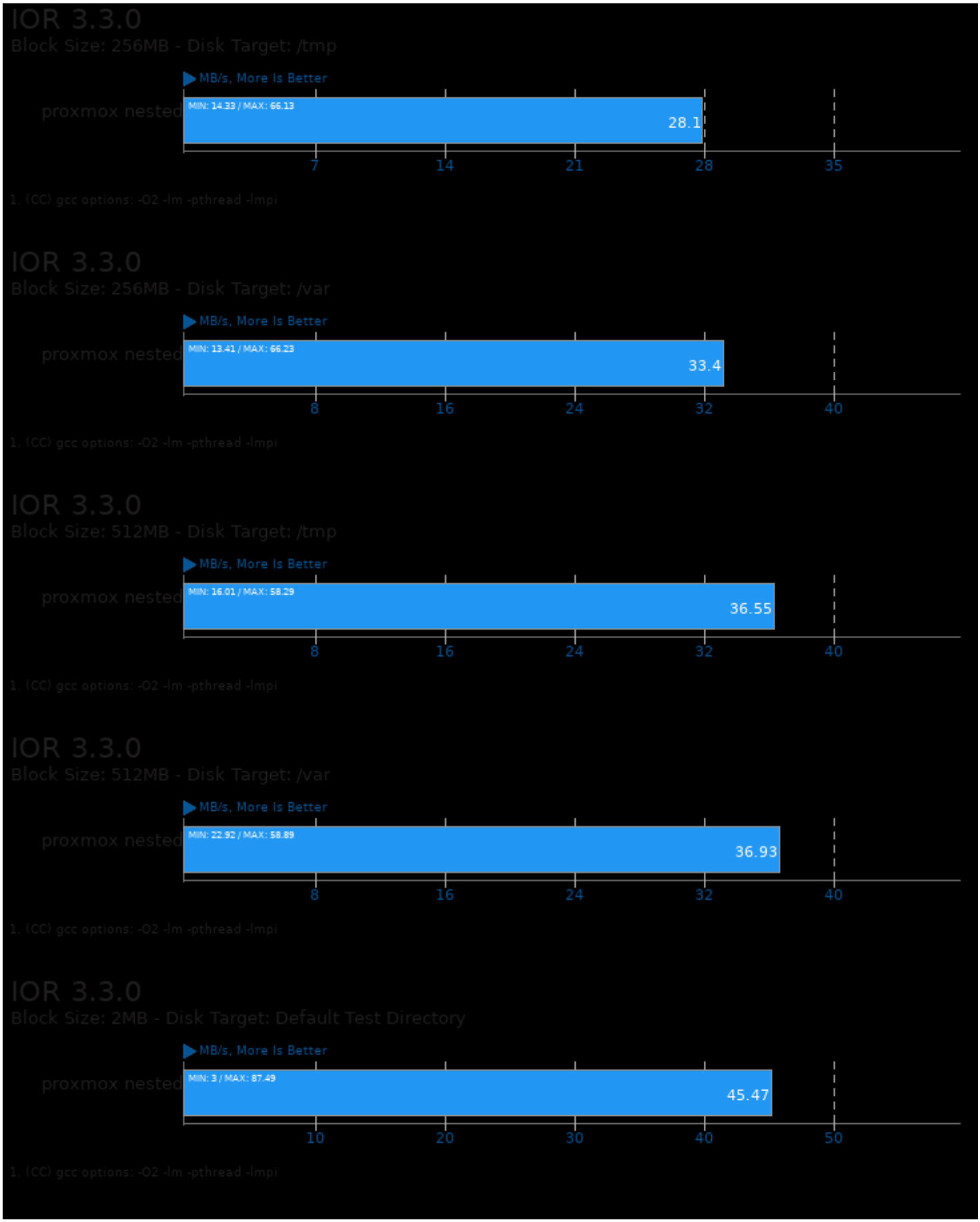


disk-test-proxmox-nester-vm

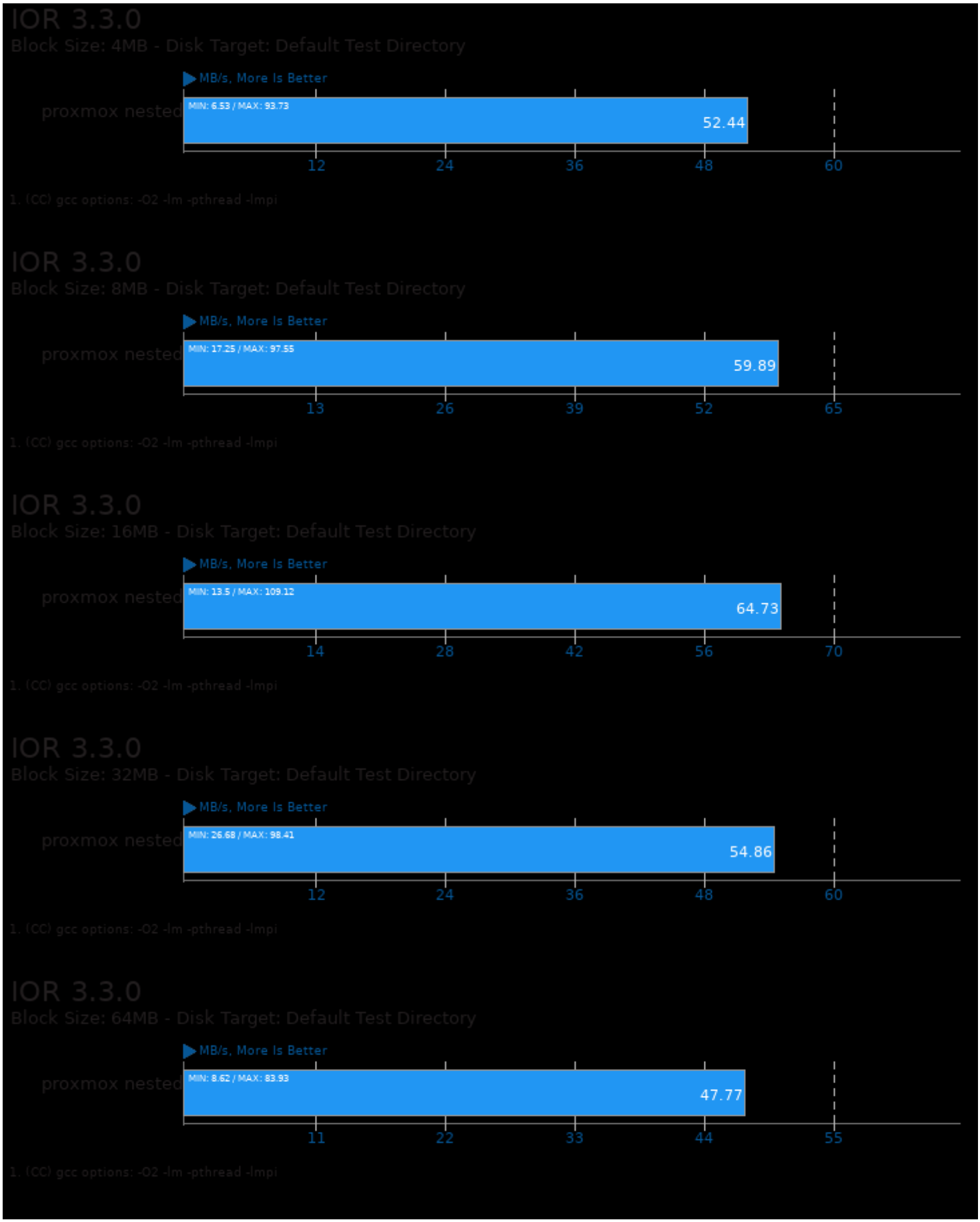


disk-test-proxmox-nester-vm




IOR 3.3.0
Block Size: 256MB - Disk Target: /tmp
MB/s, More Is Better
proxmox nested
MIN: 14.33 / MAX: 66.13
28.1
7
14
21
28
35
1. (CC) gcc options: -O2 -lm -pthread -lmpi
IOR 3.3.0
Block Size: 256MB - Disk Target: /var
MB/s, More Is Better
proxmox nested
MIN: 13.41 / MAX: 66.23
33.4
8
16
24
32
40
1. (CC) gcc options: -O2 -lm -pthread -lmpi
IOR 3.3.0
Block Size: 512MB - Disk Target: /tmp
MB/s, More Is Better
proxmox nested
MIN: 16.01 / MAX: 58.29
36.55
8
16
24
32
40
1. (CC) gcc options: -O2 -lm -pthread -lmpi
IOR 3.3.0
Block Size: 512MB - Disk Target: /var
MB/s, More Is Better
proxmox nested
MIN: 22.92 / MAX: 58.89
36.93
8
16
24
32
40
1. (CC) gcc options: -O2 -lm -pthread -lmpi
IOR 3.3.0
Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
proxmox nested
MIN: 3 / MAX: 87.49
45.47
10
20
30
40
50
1. (CC) gcc options: -O2 -lm -pthread -lmpi

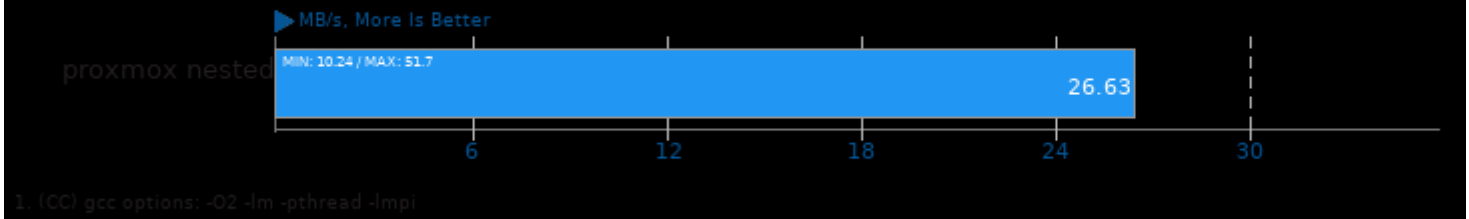
disk-test-proxmox-nester-vm



disk-test-proxmox-nester-vm

IOR 3.3.0

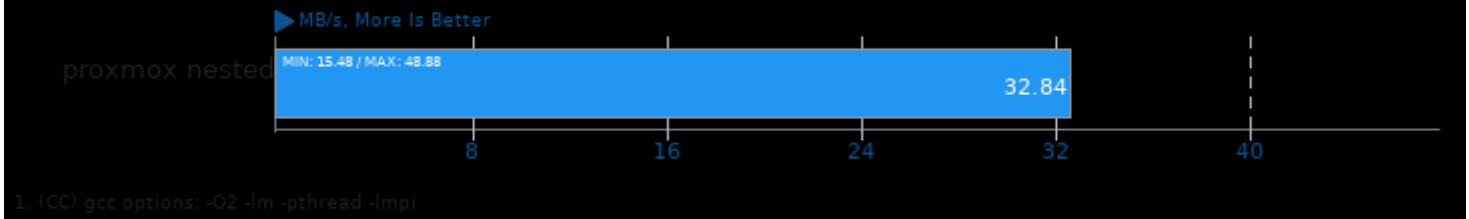
Block Size: 256MB - Disk Target: Default Test Directory



1. (CC) gcc options: -O2 -lm -pthread -lmpi

IOR 3.3.0

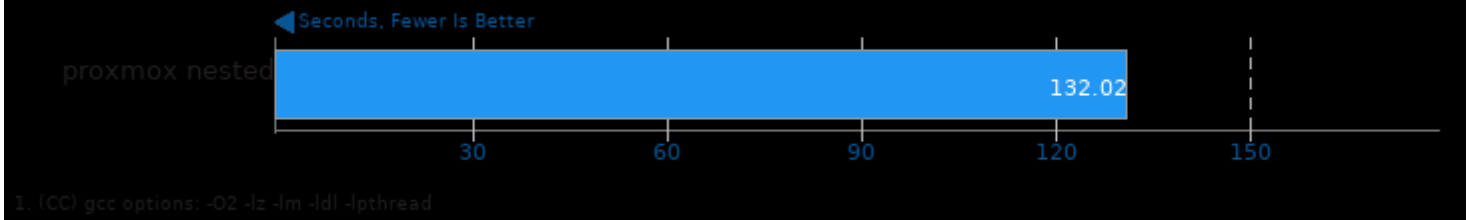
Block Size: 512MB - Disk Target: Default Test Directory



1. (CC) gcc options: -O2 -lm -pthread -lmpi

SQLite 3.30.1

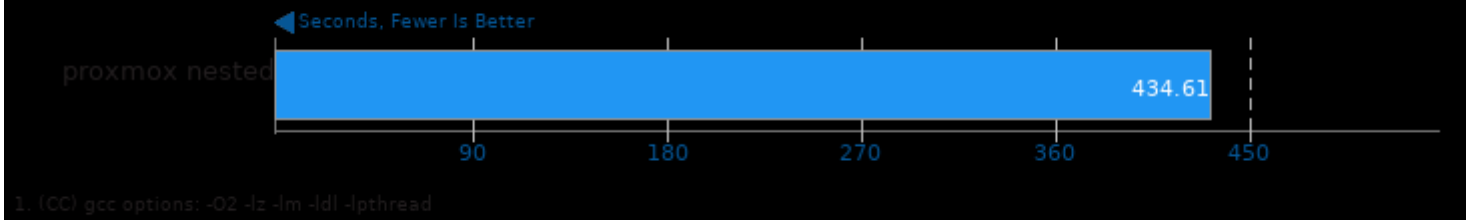
Threads / Copies: 1



1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread

SQLite 3.30.1

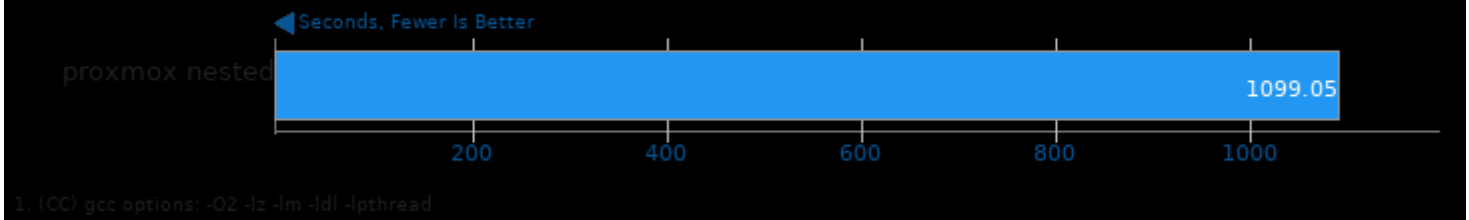
Threads / Copies: 8



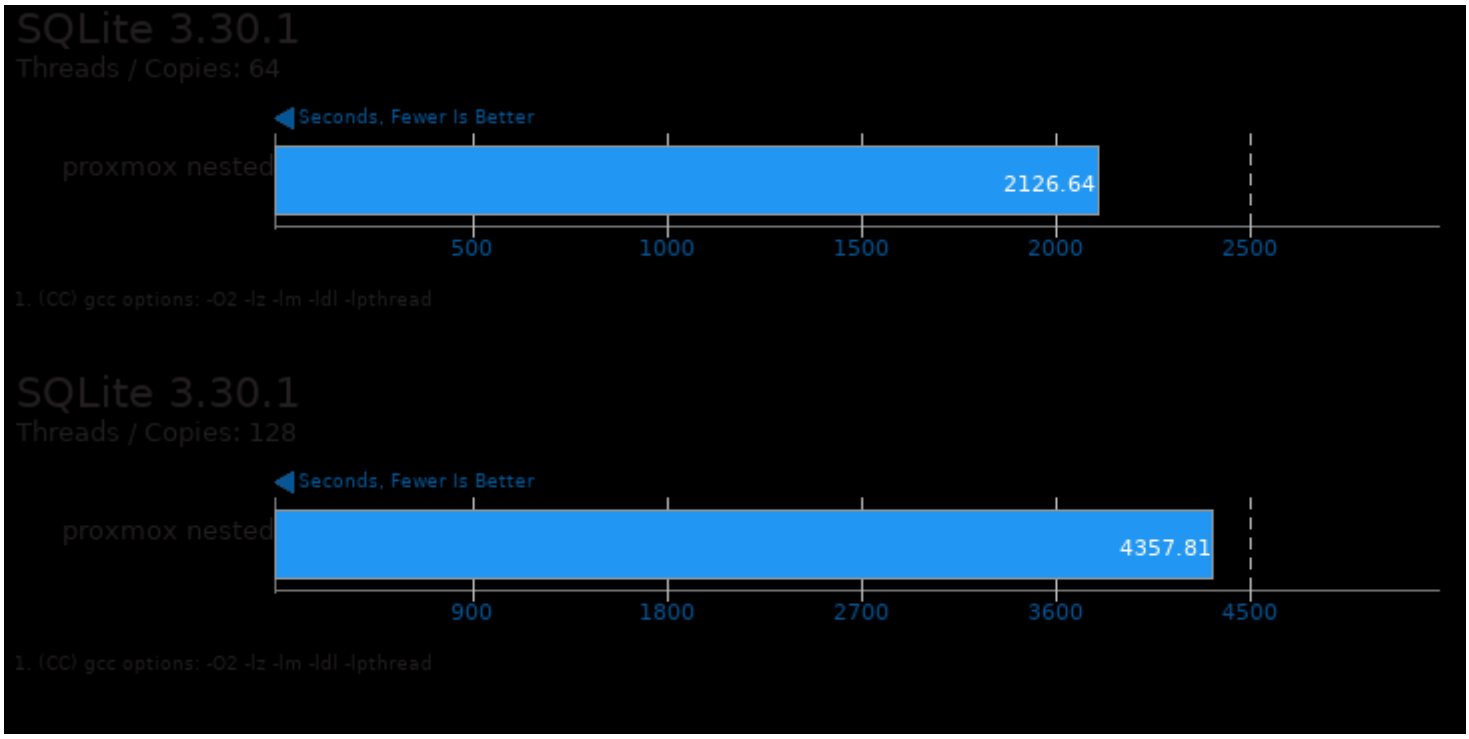
1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread

SQLite 3.30.1

Threads / Copies: 32



1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 14:59.