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pve.cntr.nvm1.fs.h1.base-1.run-1

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Test Systems:

pve.cntr.nvm1.fs.h1.base-1.run-1

Processor: Intel Xeon Gold 6136 @ 3.70GHz (12 Cores), Motherboard: Supermicro X11DPH-i v1.01 (3.2 BIOS), Memory: 2 x 64 GB DDR4-2400MT/s HMAA8GL7MMR4N-UH, Disk: 1000GB KINGSTON SKC2000M81000G + 2048GB Samsung SSD 960 PRO 2TB + 960GB SMC3108 + 31GB USB Flash Drive, Graphics: astdrmfb

OS: Debian GNU/Linux 10, Kernel: 5.4.44-2-pve (x86_64), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1024x768, System Layer: lxc

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 / relatime,rw
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x2000065

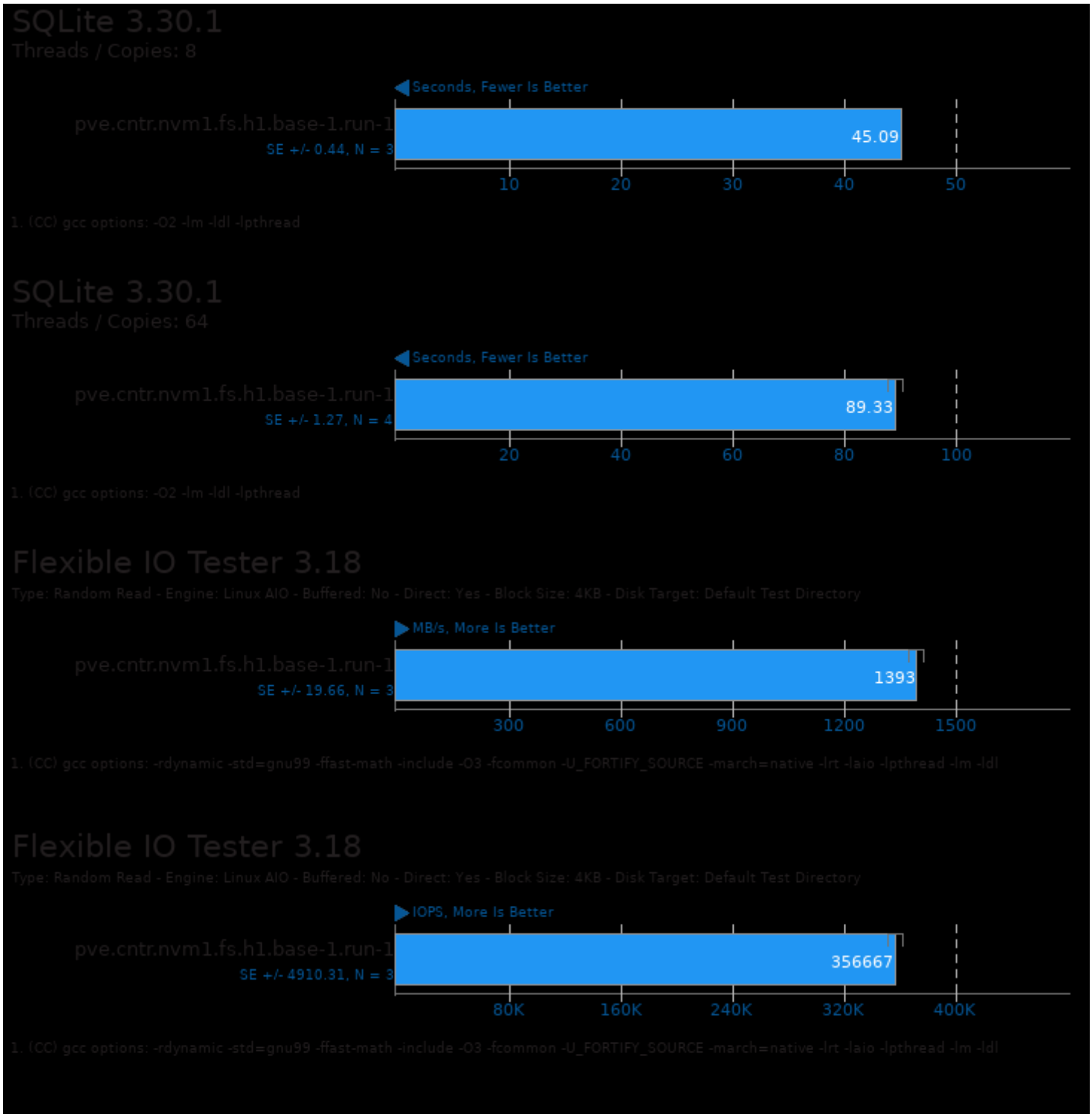
pve.cntr.nvm1.fs.h1.base-1.run-1

Java Notes: OpenJDK Runtime Environment (build 11.0.8+10-post-Debian-1deb10u1)
Python Notes: Python 2.7.16 + Python 3.7.3
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Vulnerable

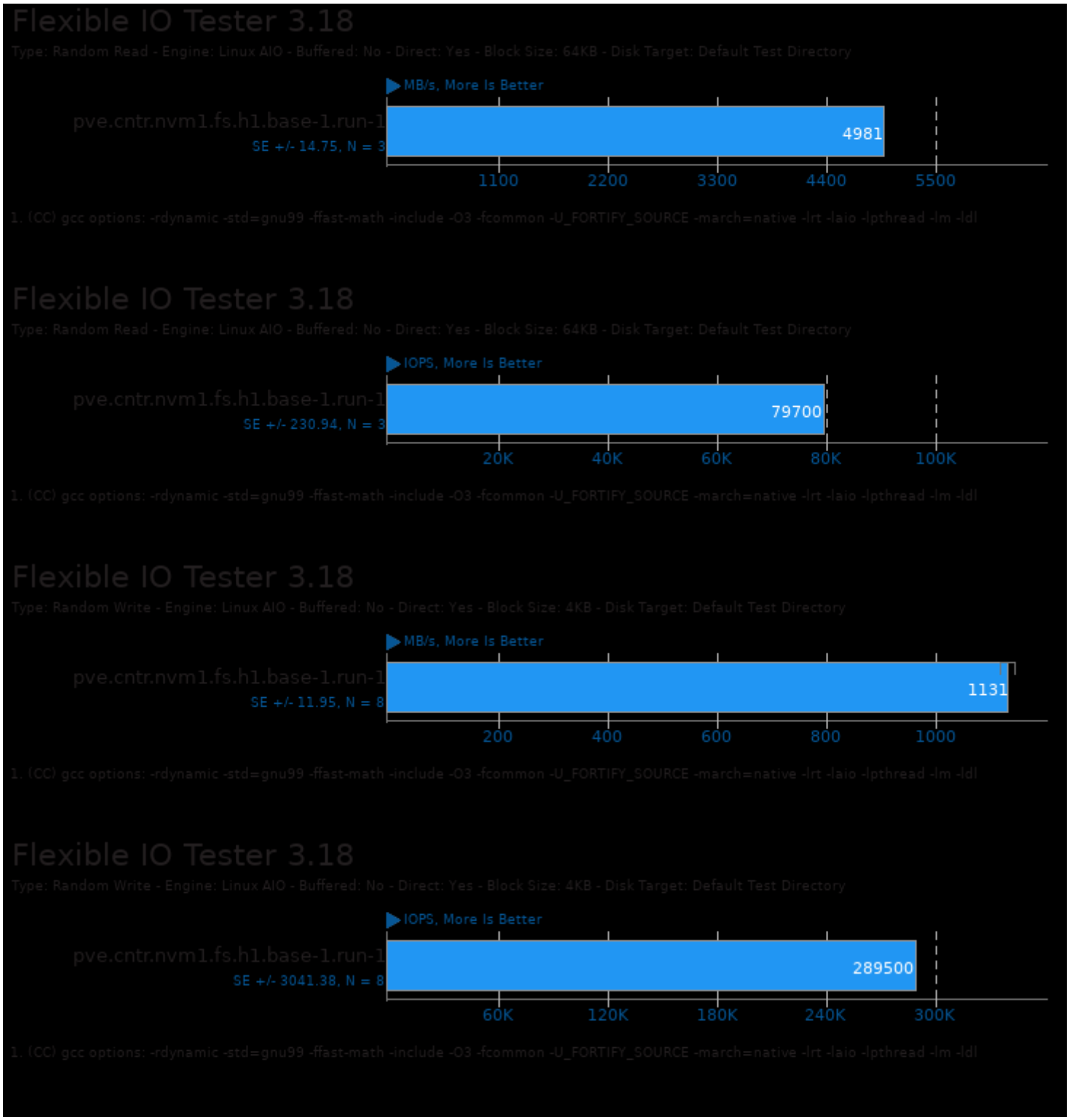
	pve.cntr.nvm1.fs.h1.base-1.run-1
SQLite - 8 (sec)	45.092
Standard Deviation	1.7%
SQLite - 64 (sec)	89.334
Standard Deviation	2.8%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (MB/s)	1393
Standard Deviation	2.4%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (IOPS)	356667
Standard Deviation	2.4%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 64KB (MB/s)	4981
Standard Deviation	0.5%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 64KB (IOPS)	79700
Standard Deviation	0.5%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (MB/s)	1131
Standard Deviation	3%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (IOPS)	289500
Standard Deviation	3%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 64KB (MB/s)	3968
Standard Deviation	2%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 64KB (IOPS)	63467
Standard Deviation	2%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	1327
Standard Deviation	1.1%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	339667
Standard Deviation	1.1%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 64KB (MB/s)	5065
Standard Deviation	0.2%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 64KB (IOPS)	81033
Standard Deviation	0.2%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	1077
Standard Deviation	2.3%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	275667
Standard Deviation	2.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 64KB (MB/s)	4105
Standard Deviation	1%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 64KB (IOPS)	65367
Standard Deviation	1.9%
FS-Mark - 5.F.1.S.4.T (Files/s)	612.8
Standard Deviation	4.1%
FS-Mark - 4.F.3.S.D.1.S (Files/s)	362.9
Standard Deviation	2%
IOzone - 4Kb - 512MB - Read Performance (MB/s)	4976
Standard Deviation	2.8%
IOzone - 4Kb - 512MB - Write Performance (MB/s)	4.43
Standard Deviation	0.6%

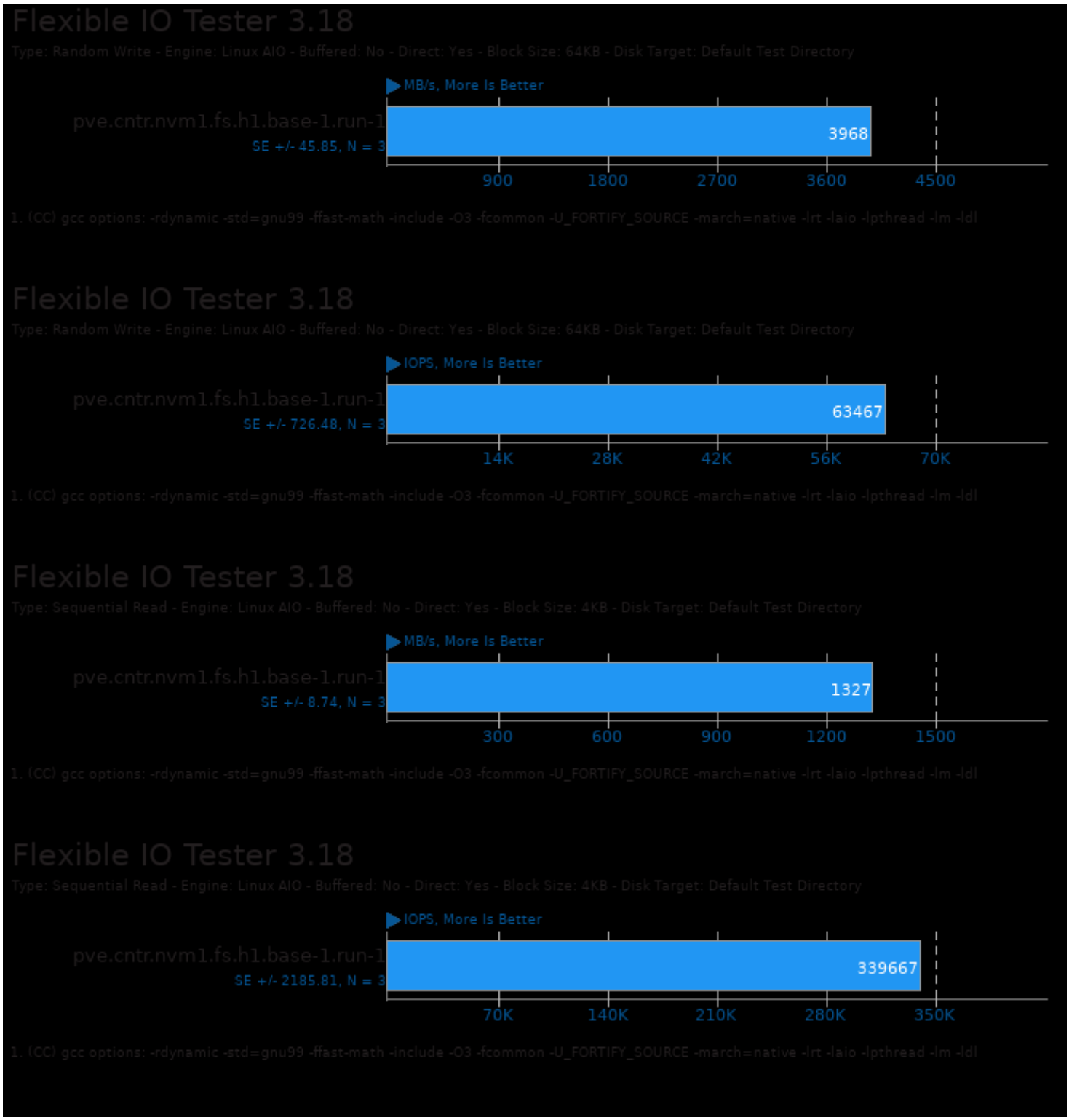
pve.cntr.nvm1.fs.h1.base-1.run-1

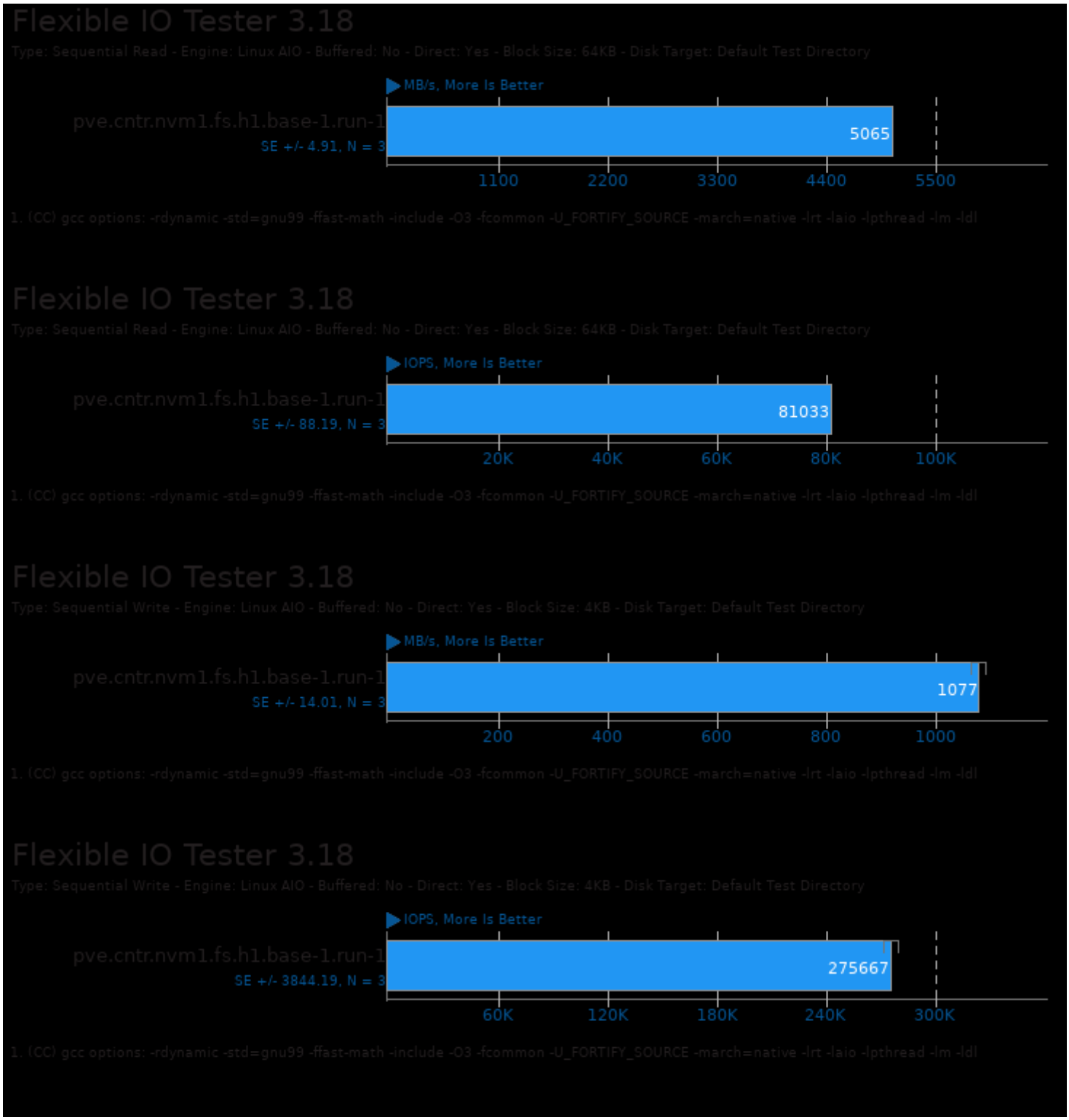
IOzone - 64Kb - 512MB - Read Performance (MB/s)	6060
Standard Deviation	0.7%
IOzone - 64Kb - 512MB - Write Performance (MB/s)	64.68
Standard Deviation	0.4%
Compile Bench - Compile (MB/s)	2108
Standard Deviation	0.3%
Compile Bench - Initial Create (MB/s)	543.84
Standard Deviation	1.5%
PostMark - D.T.P (TPS)	6303
Standard Deviation	1.5%
x264 - H.2.V.E (FPS)	29.40
Standard Deviation	0.1%
FFmpeg - H.2.H.T.N.D (sec)	7.461
Standard Deviation	1.6%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	66.008
Standard Deviation	0.2%
Memtier_benchmark - Redis (Ops/sec)	2564230
Standard Deviation	1.8%
Apache Benchmark - S.W.P.S (Reqs/sec)	37429
Standard Deviation	1.2%


SQLite 3.30.1
Threads / Copies: 8
Seconds, Fewer Is Better
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 0.44, N = 3
45.09
10
20
30
40
50
1. (CC) gcc options: -O2 -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 64
Seconds, Fewer Is Better
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 1.27, N = 4
89.33
20
40
60
80
100
1. (CC) gcc options: -O2 -lm -ldl -lpthread
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
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 19.66, N = 3
1393
300
600
900
1200
1500
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
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 4910.31, N = 3
356667
80K
160K
240K
320K
400K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

pve.cntr.nvm1.fs.h1.base-1.run-1

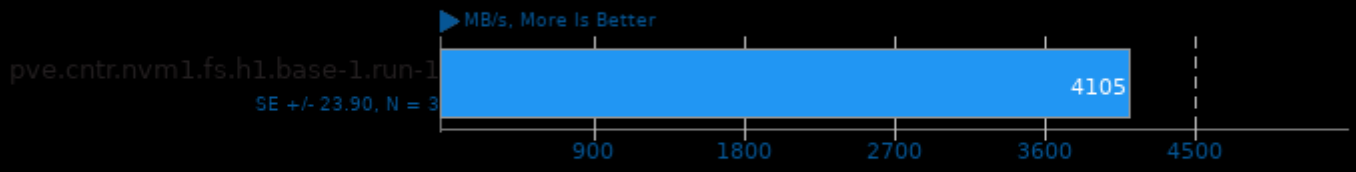



Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 45.85, N = 3
3968
900
1800
2700
3600
4500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -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: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 726.48, N = 3
63467
14K
28K
42K
56K
70K
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
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 8.74, N = 3
1327
300
600
900
1200
1500
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
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 2185.81, N = 3
339667
70K
140K
210K
280K
350K
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
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 4.91, N = 3
5065
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: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 88.19, N = 3
81033
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
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 14.01, N = 3
1077
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: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
pve.cntr.nvm1.fs.h1.base-1.run-1
SE +/- 3844.19, N = 3
275667
60K
120K
180K
240K
300K
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

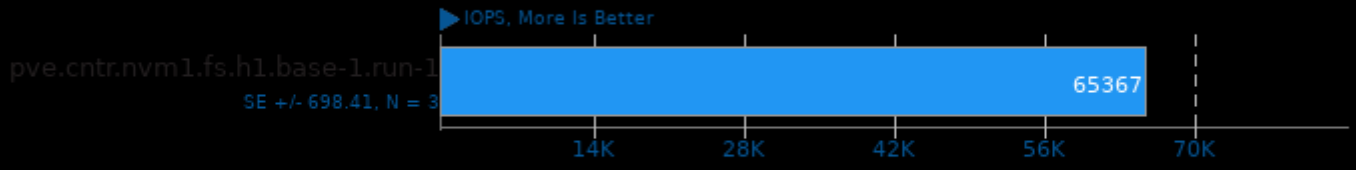
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory



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

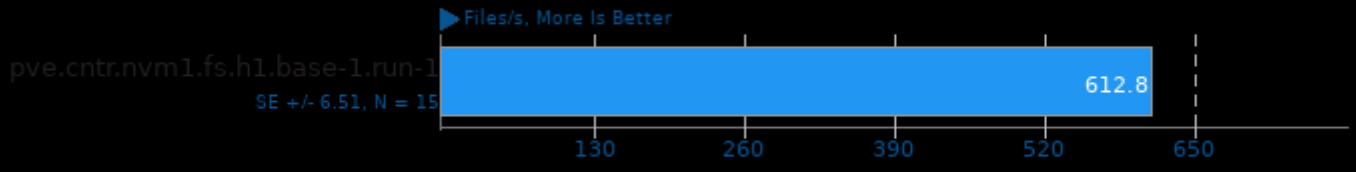
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory



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

FS-Mark 3.3

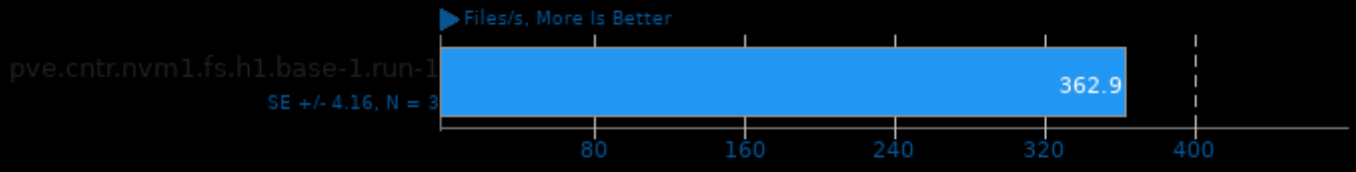
Test: 5000 Files, 1MB Size, 4 Threads



1. (CC) gcc options: -static

FS-Mark 3.3

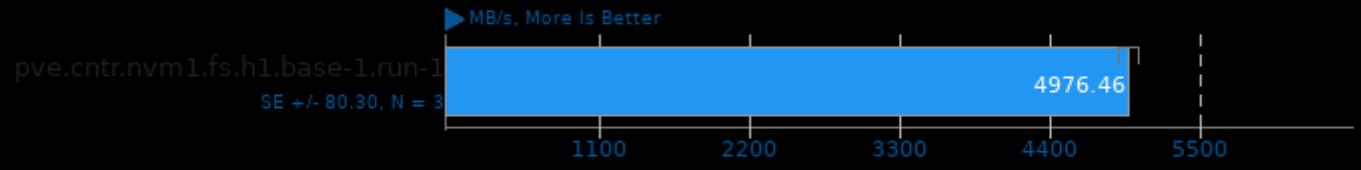
Test: 4000 Files, 32 Sub Dirs, 1MB Size



1. (CC) gcc options: -static

IOzone 3.465

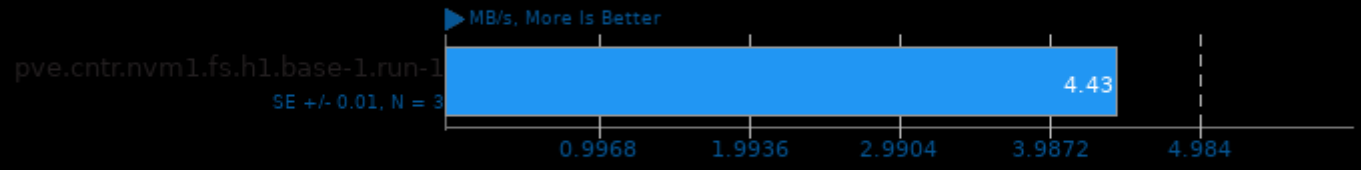
Record Size: 4Kb - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

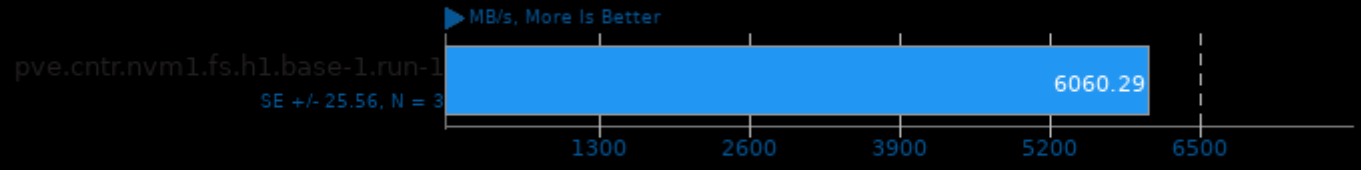
Record Size: 4Kb - File Size: 512MB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

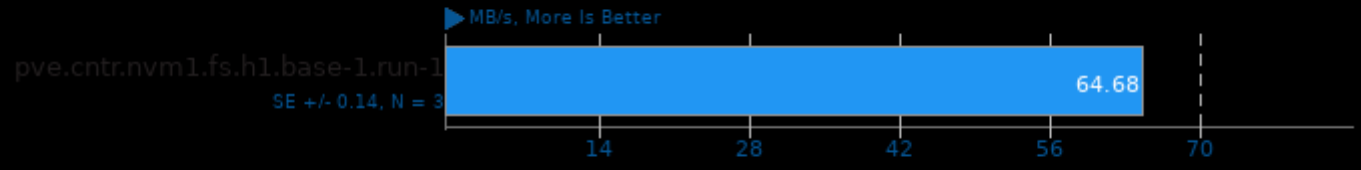
Record Size: 64Kb - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

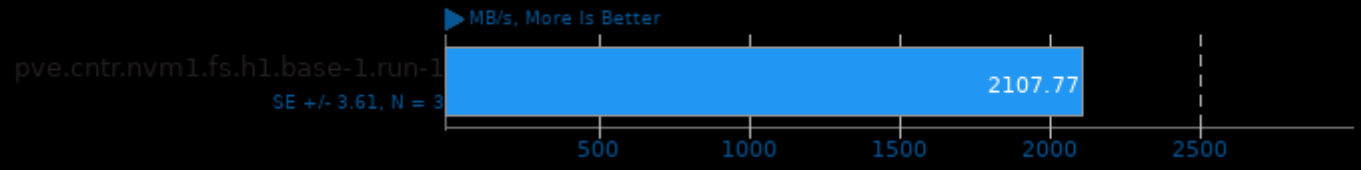
Record Size: 64Kb - File Size: 512MB - Disk Test: Write Performance



1. (CC) gcc options: -O3

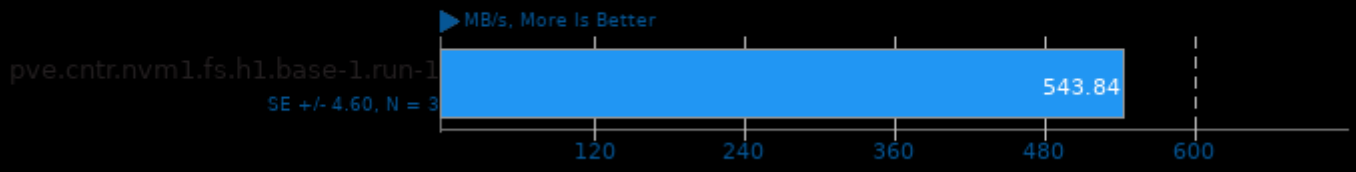
Compile Bench 0.6

Test: Compile



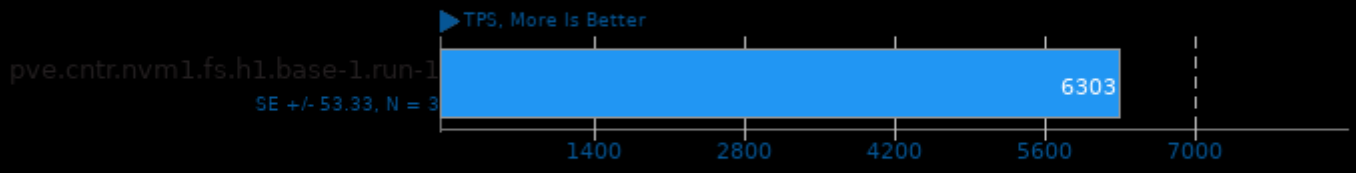
Compile Bench 0.6

Test: Initial Create



PostMark 1.51

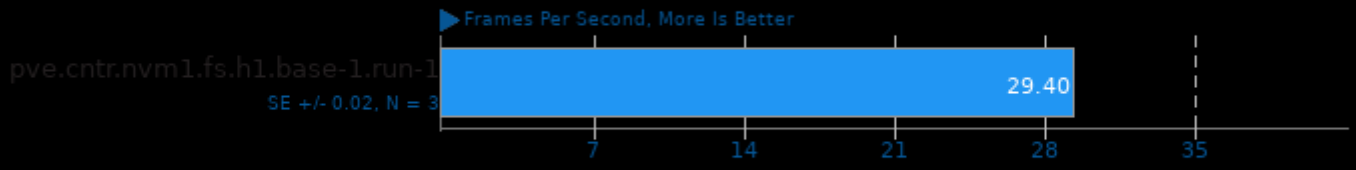
Disk Transaction Performance



1. (CC) gcc options: -O3

x264 2019-12-17

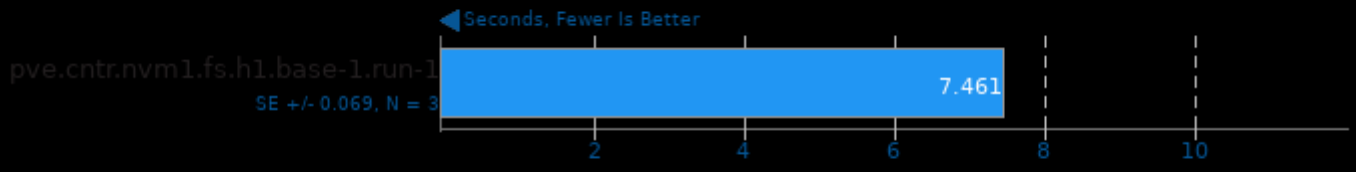
H.264 Video Encoding



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectorize

FFmpeg 4.0.2

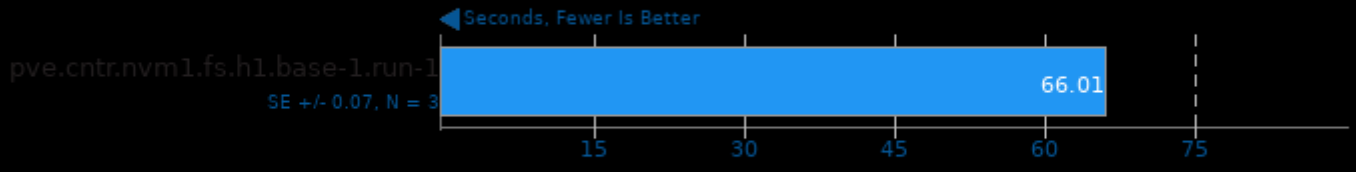
H.264 HD To NTSC DV



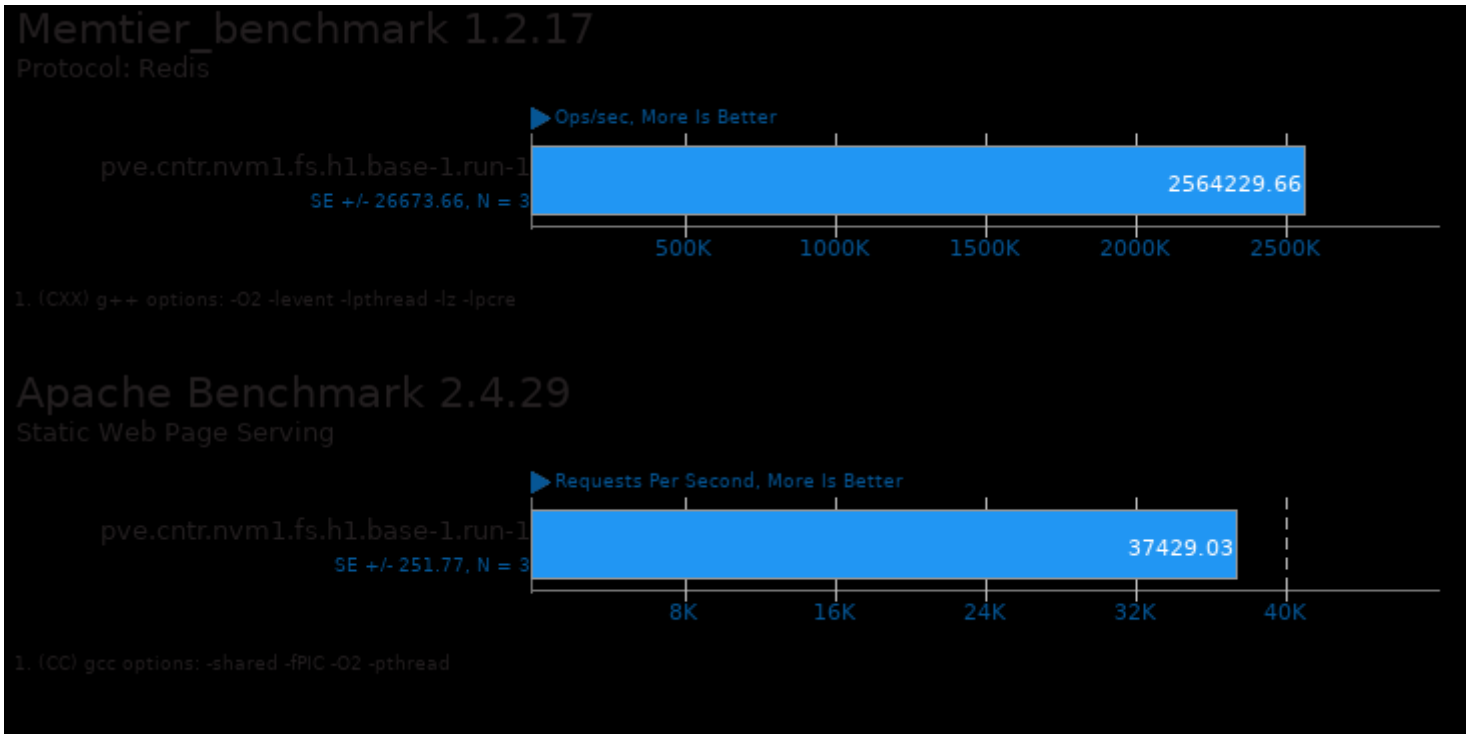
1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lm -pthread -std=c11 -fomit-frame-pointer -fPIC -O3 -fno-ma

SQLite Speedtest 3.30

Timed Time - Size 1,000



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



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