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pve.bare.ssd1.fs.h1.base-1.run-1

pve.bare.ssd1.fs.h1.base-1.run-1

Test Systems:

pve.bare.ssd1.fs.h1.base-1.run-1

Processor: Intel Xeon Gold 6136 @ 3.70GHz (12 Cores / 24 Threads), Motherboard: Supermicro X11DPH-i v1.01 (3.2 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 126GB, Disk: 1000GB KINGSTON SKC2000M81000G + 2048GB Samsung SSD 960 PRO 2TB + 960GB SMC3108 + 31GB USB Flash Drive, Graphics: ASPEED, Network: 2 x Intel X722 for 1GbE + 4 x Intel X710/X557-AT

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

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

pve.bare.ssd1.fs.h1.base-1.run-1

Disk Notes: NONE / errors=remount-ro,relatime,rw,stripe=64
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x2000065
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

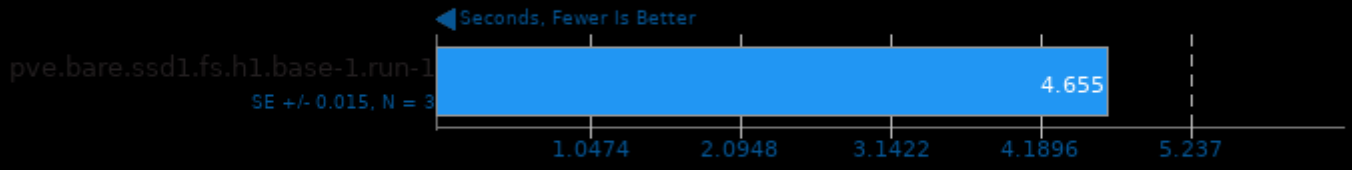
	pve.bare.ssd1.fs.h1.base-1.run-1
SQLite - 8 (sec)	4.655
Standard Deviation	0.6%
SQLite - 64 (sec)	19.795
Standard Deviation	0.3%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (MB/s)	471
Standard Deviation	1.6%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (IOPS)	120667
Standard Deviation	1.7%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 64KB (MB/s)	2043
Standard Deviation	0.8%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 64KB (IOPS)	32367
Standard Deviation	1%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (MB/s)	137
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (IOPS)	35000
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 64KB (MB/s)	5437
Standard Deviation	0.3%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 64KB (IOPS)	87000
Standard Deviation	0.3%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	525
Standard Deviation	0.2%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	134333
Standard Deviation	0.4%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 64KB (MB/s)	5682
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 64KB (IOPS)	90900
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	477
Standard Deviation	0.6%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	122000
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 64KB (MB/s)	778
Standard Deviation	0.1%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 64KB (IOPS)	12433
Standard Deviation	0.5%
FS-Mark - 5.F.1.S.4.T (Files/s)	497.2
Standard Deviation	0.4%
FS-Mark - 4.F.3.S.D.1.S (Files/s)	581.0
Standard Deviation	0.7%
IOzone - 4Kb - 512MB - Read Performance (MB/s)	6301
Standard Deviation	0.3%
IOzone - 4Kb - 512MB - Write Performance (MB/s)	38.98
Standard Deviation	1%
IOzone - 64Kb - 512MB - Read Performance (MB/s)	8317
Standard Deviation	1.4%

pve.bare.ssd1.fs.h1.base-1.run-1

IOzone - 64Kb - 512MB - Write Performance (MB/s)	423.93
Standard Deviation	2.3%
Compile Bench - Compile (MB/s)	2148
Standard Deviation	1.2%
Compile Bench - Initial Create (MB/s)	649.33
Standard Deviation	1.1%
PostMark - D.T.P (TPS)	6578
x264 - H.2.V.E (FPS)	100.25
Standard Deviation	0.3%
FFmpeg - H.2.H.T.N.D (sec)	6.233
Standard Deviation	2%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	65.039
Standard Deviation	0.2%
Memtier_benchmark - Redis (Ops/sec)	2300474
Standard Deviation	2.2%
Apache Benchmark - S.W.P.S (Reqs/sec)	36388
Standard Deviation	0.5%

SQLite 3.30.1

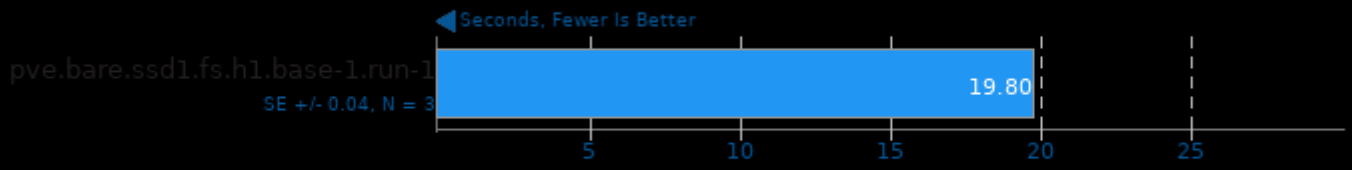
Threads / Copies: 8



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

SQLite 3.30.1

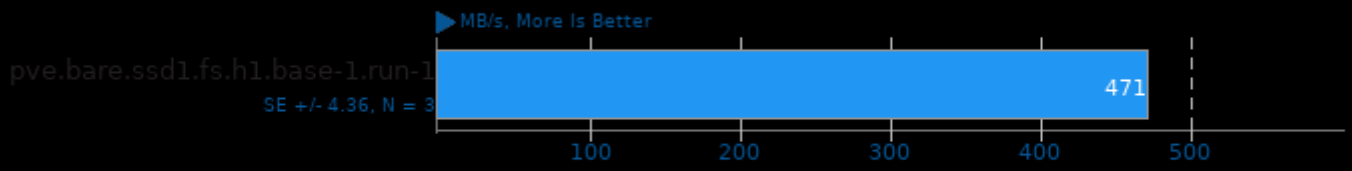
Threads / Copies: 64



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

Flexible IO Tester 3.18

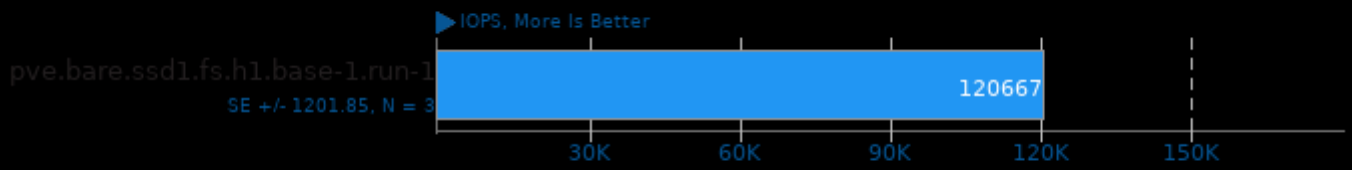
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



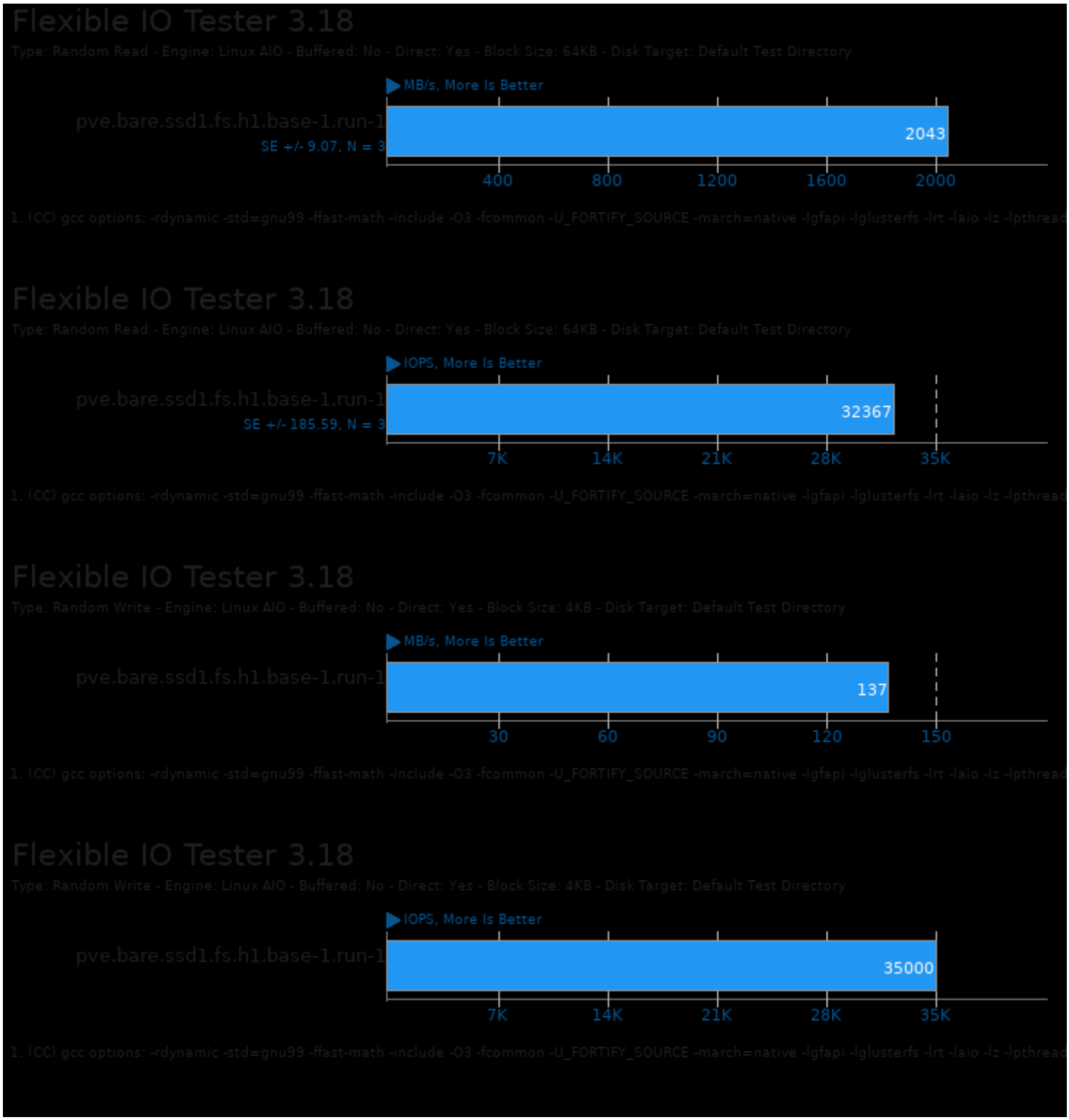
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lgfapi -lglusterfs -lrt -laio -lz -lpthread

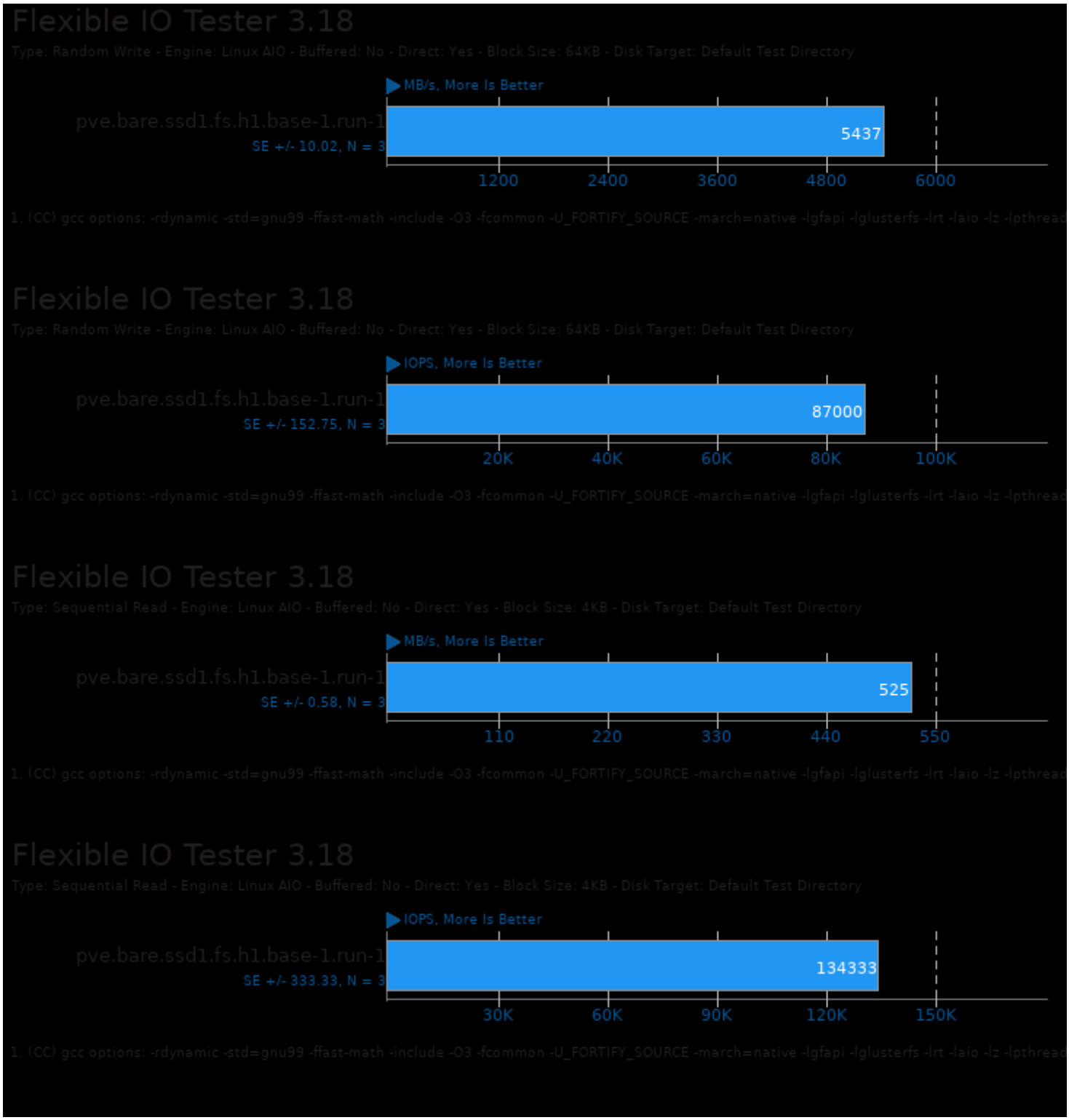
Flexible IO Tester 3.18

Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory

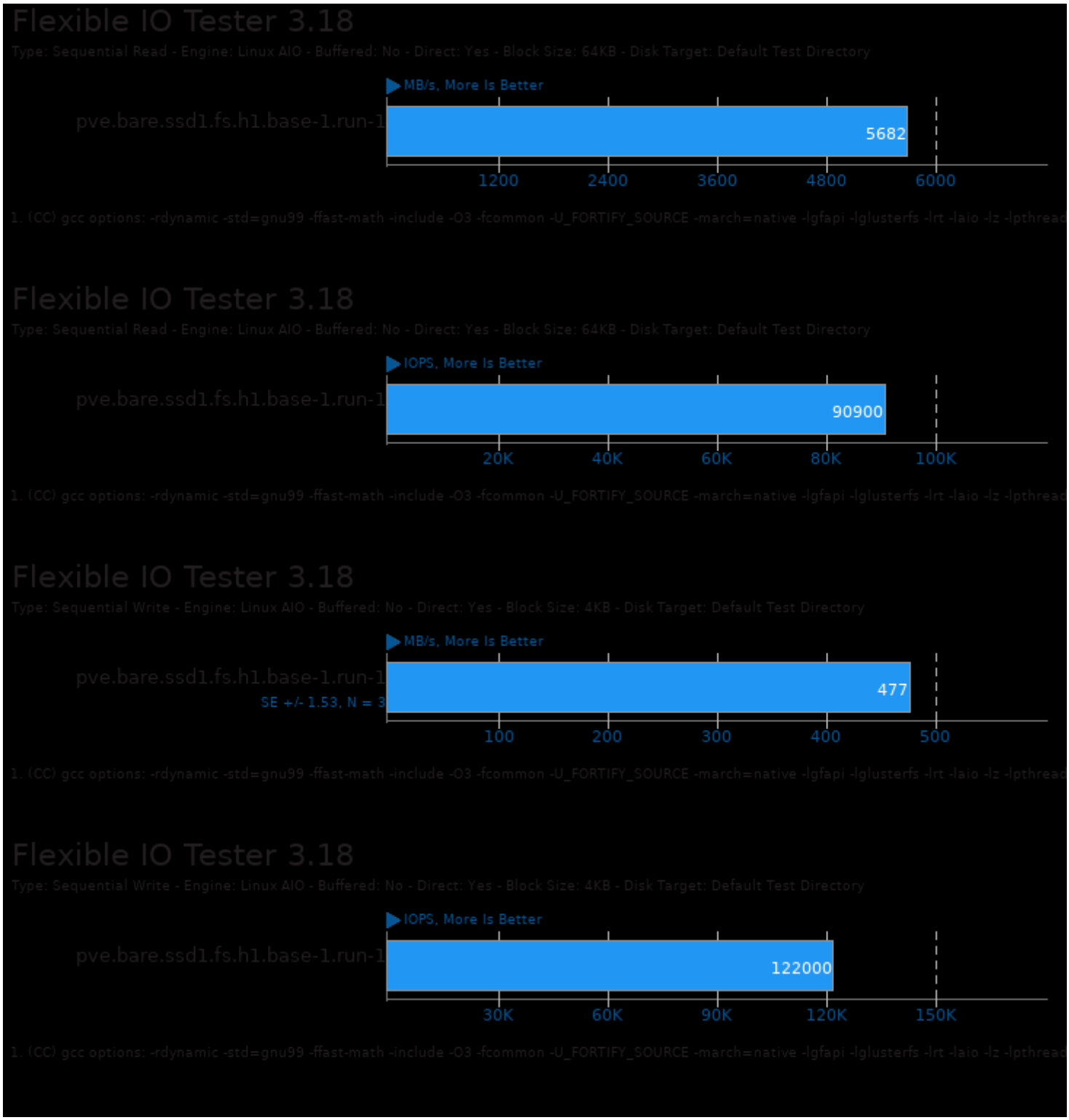


1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lgfapi -lglusterfs -lrt -laio -lz -lpthread


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
pve.bare.ssd1.fs.h1.base-1.run-1
SE +/- 9.07, N = 3
2043
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lgfapi -lglusterfs -lrt -laio -lz -lpthread
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
pve.bare.ssd1.fs.h1.base-1.run-1
SE +/- 185.59, N = 3
32367
7K
14K
21K
28K
35K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lgfapi -lglusterfs -lrt -laio -lz -lpthread
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
pve.bare.ssd1.fs.h1.base-1.run-1
137
30
60
90
120
150
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lgfapi -lglusterfs -lrt -laio -lz -lpthread
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
pve.bare.ssd1.fs.h1.base-1.run-1
35000
7K
14K
21K
28K
35K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lgfapi -lglusterfs -lrt -laio -lz -lpthread

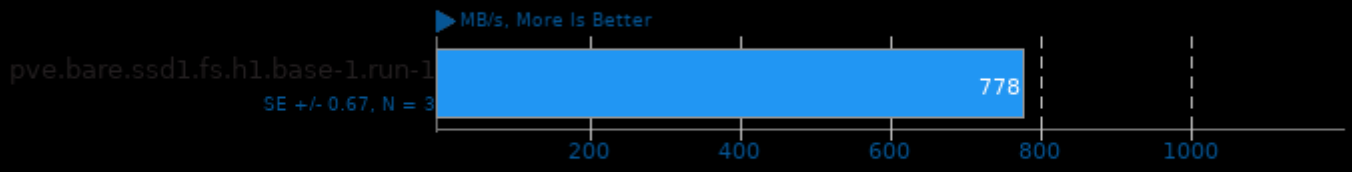

Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
pve.bare.ssd1.fs.h1.base-1.run-1
SE +/- 10.02, N = 3
5437
1200
2400
3600
4800
6000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lgfapi -lglusterfs -lrt -laio -lz -lpthread
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.bare.ssd1.fs.h1.base-1.run-1
SE +/- 152.75, N = 3
87000
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lgfapi -lglusterfs -lrt -laio -lz -lpthread
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.bare.ssd1.fs.h1.base-1.run-1
SE +/- 0.58, N = 3
525
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lgfapi -lglusterfs -lrt -laio -lz -lpthread
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.bare.ssd1.fs.h1.base-1.run-1
SE +/- 333.33, N = 3
134333
30K
60K
90K
120K
150K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lgfapi -lglusterfs -lrt -laio -lz -lpthread

pve.bare.ssd1.fs.h1.base-1.run-1



Flexible IO Tester 3.18

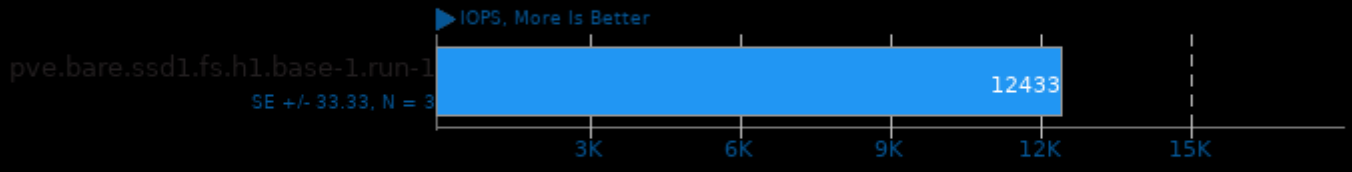
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.18

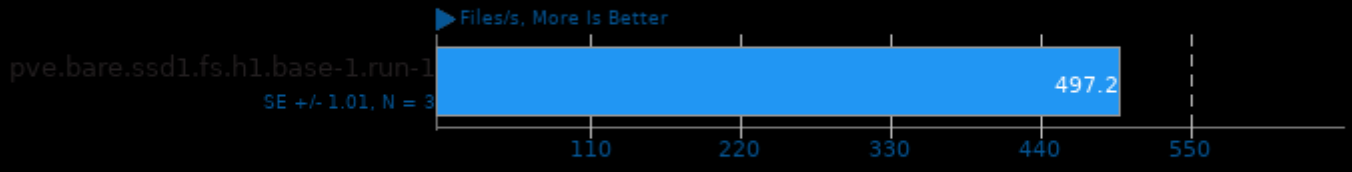
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory



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

FS-Mark 3.3

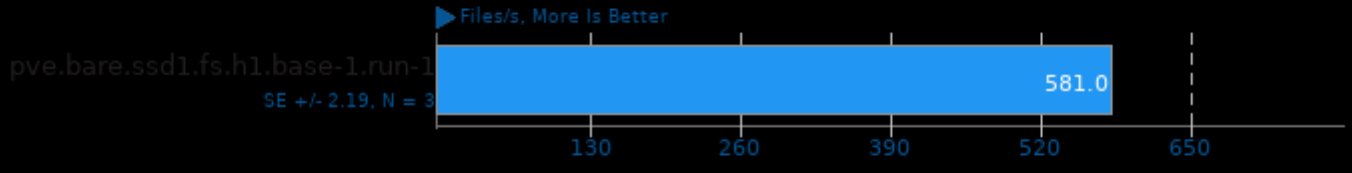
Test: 5000 Files, 1MB Size, 4 Threads



1. (CC) gcc options: -static

FS-Mark 3.3

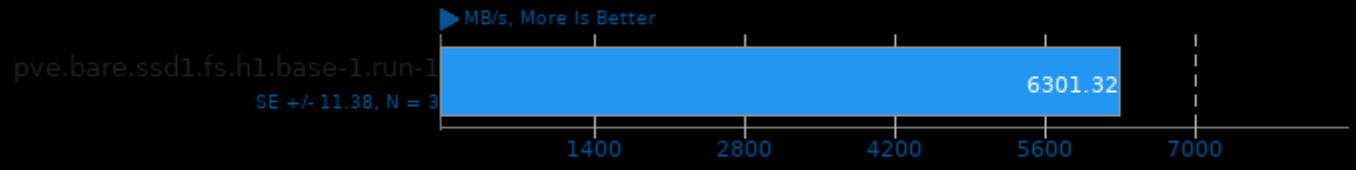
Test: 4000 Files, 32 Sub Dirs, 1MB Size



1. (CC) gcc options: -static

IOzone 3.465

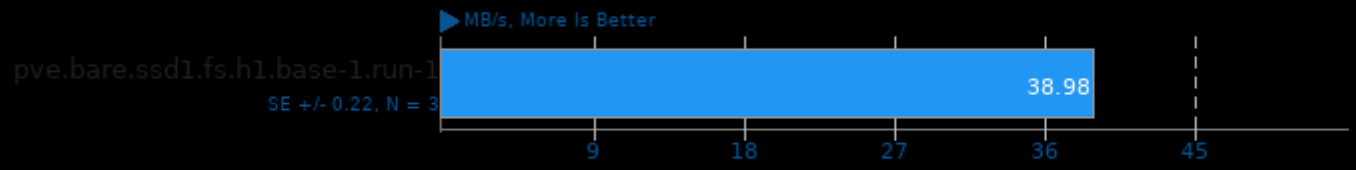
Record Size: 4Kb - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

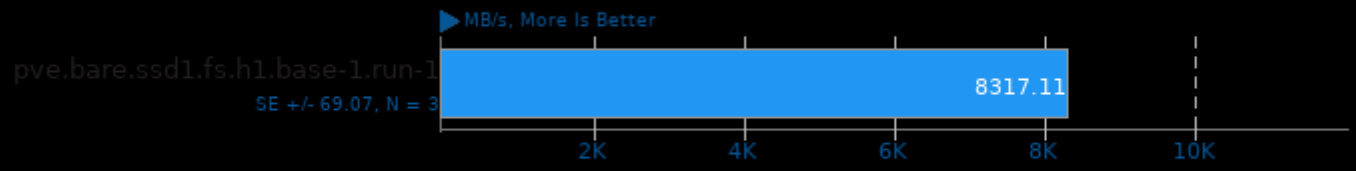
Record Size: 4Kb - File Size: 512MB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

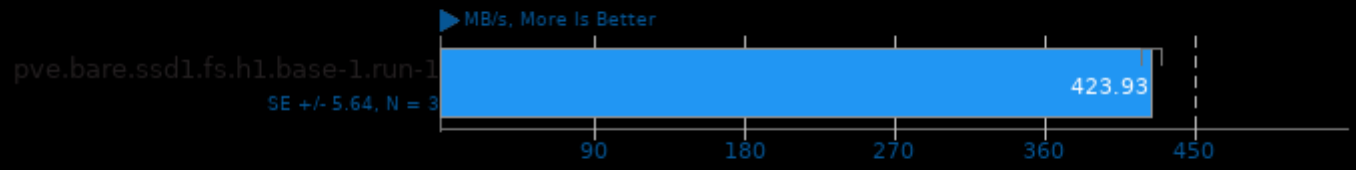
Record Size: 64Kb - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

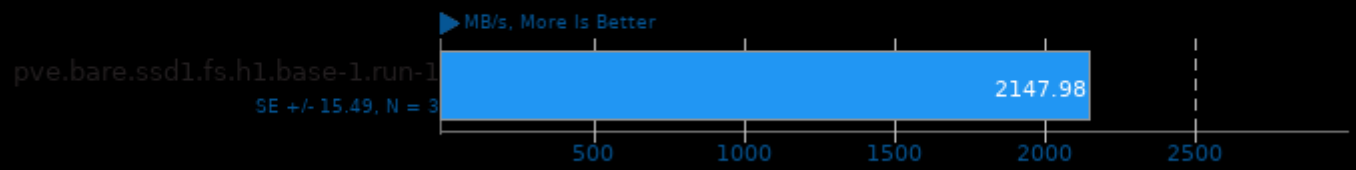
Record Size: 64Kb - File Size: 512MB - Disk Test: Write Performance



1. (CC) gcc options: -O3

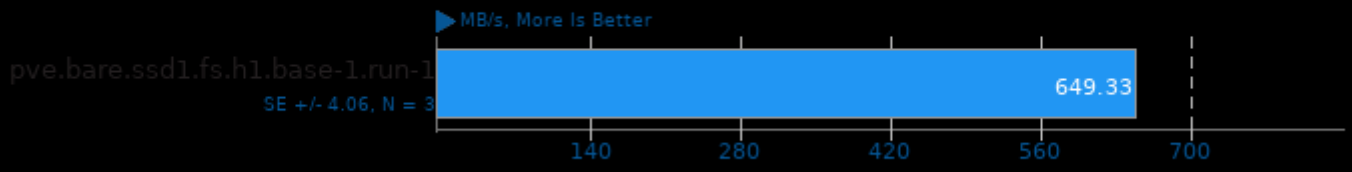
Compile Bench 0.6

Test: Compile



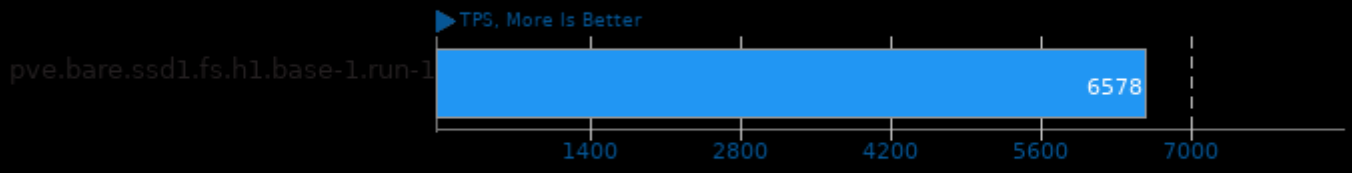
Compile Bench 0.6

Test: Initial Create



PostMark 1.51

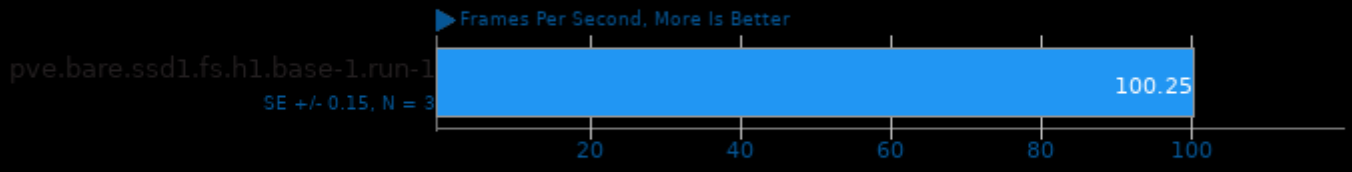
Disk Transaction Performance



1. (CC) gcc options: -O3

x264 2019-12-17

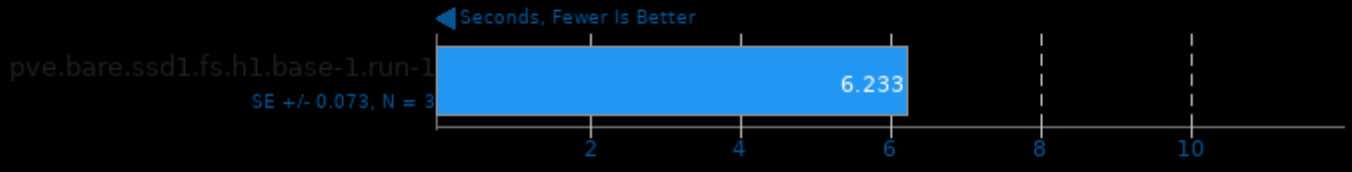
H.264 Video Encoding



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

FFmpeg 4.0.2

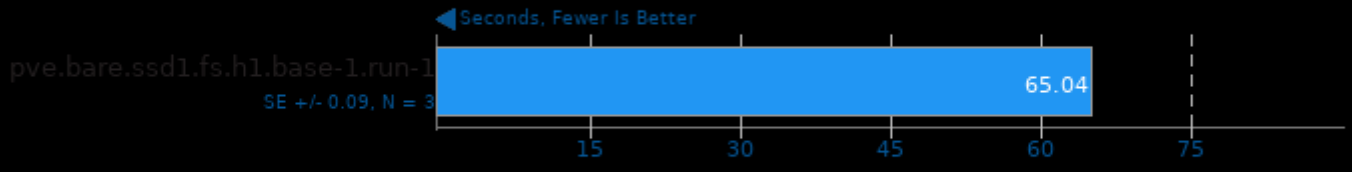
H.264 HD To NTSC DV



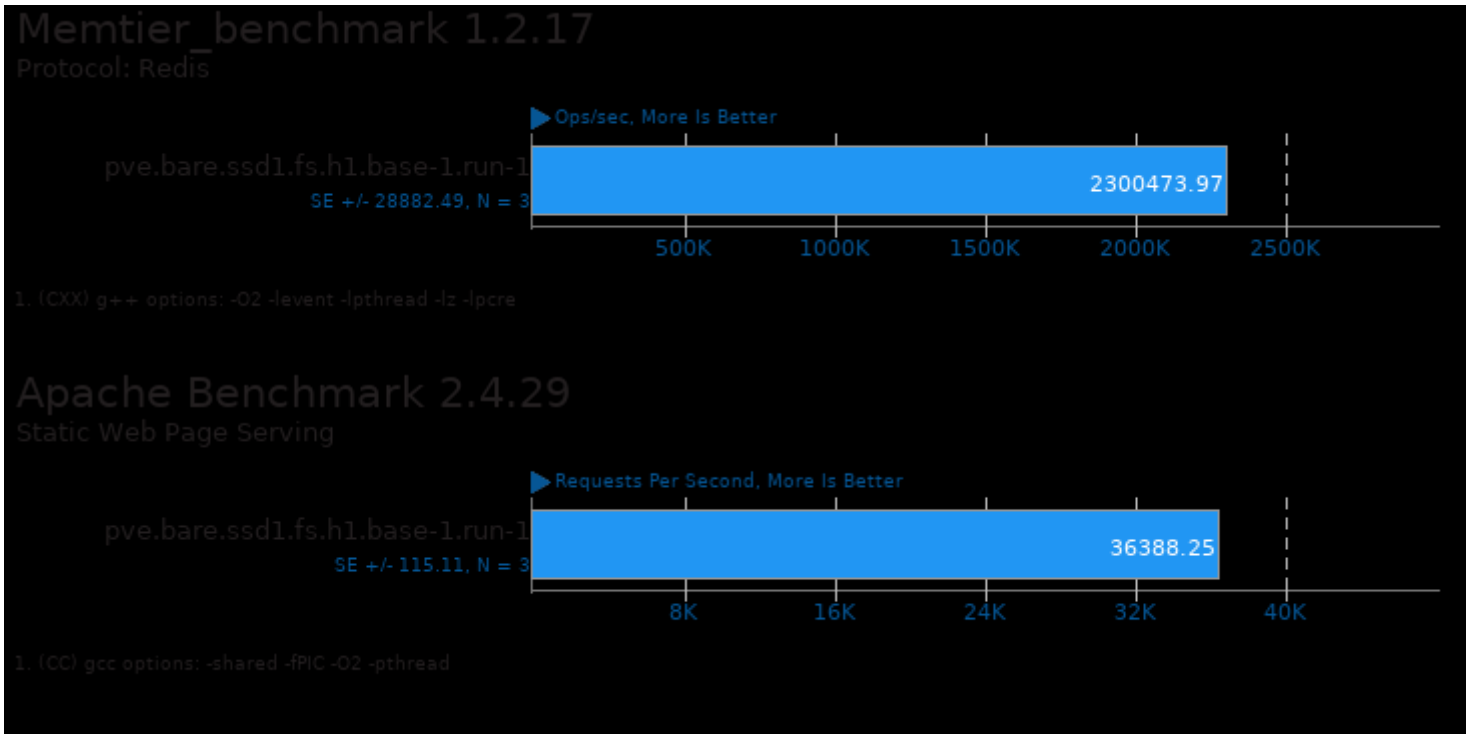
1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lm -lxcb -pthread -std=c11 -fomit-frame-pointer -fPIC -O3 -fo

SQLite Speedtest 3.30

Timed Time - Size 1,000



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



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:02.