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debian11-lvm-fio-pve72

KVM testing on Debian 11 via the Phoronix Test Suite.

Test Systems:

QEMU HDD

4k unbuffered directio

Processor: 2 x Intel Xeon E3-12xx v2 (Ivy Bridge) (4 Cores), Motherboard: QEMU Standard PC (i440FX + PIIX 1996) (rel-1.15.0-0-g2dd4b9b3f840-prebuilt.qemu.org BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1 x GB RAM QEMU, Disk: 9GB QEMU HDD + 11GB QEMU HDD + 107GB QEMU HDD, Graphics: bochs-drmdrmfb, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Debian 11, Kernel: 5.10.0-10-amd64 (x86_64), Vulkan: 1.0.2, Compiler: GCC 10.2.1 20210110, File-System: xfs, Screen Resolution: 1024x768, System Layer: KVM

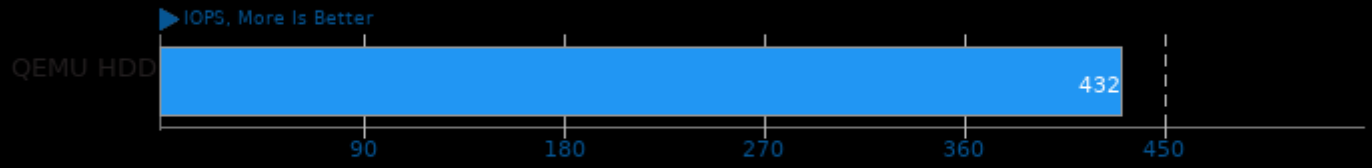
Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie

--enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-gcn/usr, hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: NONE / attr2,inode64,logbsize=32k,logbufs=8,noquota,relatime,rw / Block Size: 4096
Processor Notes: CPU Microcode: 0x1
Security Notes: itlb_multihit: KVM: Mitigation of VMX unsupported + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Unknown: Dependent on hypervisor status + tsx_async_abort: Not affected

	QEMU HDD	4k unbuffered directio
Flexible IO Tester - Rand Read - IO_uring - No - No - 1MB - /temp (IOPS)	432	
Flexible IO Tester - Rand Read - IO_uring - No - No - 2MB - /temp (IOPS)	213	
Standard Deviation	1%	
Flexible IO Tester - Rand Read - IO_uring - No - Yes - 4KB - /temp (IOPS)		44867
Standard Deviation		1.5%
Flexible IO Tester - Rand Write - IO_uring - No - Yes - 4KB - /temp (IOPS)		31653
Standard Deviation		3.3%
Flexible IO Tester - Seq Read - IO_uring - No - Yes - 4KB - /temp (IOPS)		45500
Standard Deviation		2.3%
Flexible IO Tester - Seq Write - IO_uring - No - Yes - 4KB - /temp (IOPS)		33907
Standard Deviation		4.9%
Flexible IO Tester - Rand Read - IO_uring - No - No - 1MB - /temp (MB/s)	436	
Flexible IO Tester - Rand Read - IO_uring - No - No - 2MB - /temp (MB/s)	433	
Standard Deviation	1.1%	
Flexible IO Tester - Rand Read - IO_uring - No - Yes - 4KB - /temp (MB/s)		175
Standard Deviation		1.5%
Flexible IO Tester - Rand Write - IO_uring - No - Yes - 4KB - /temp (MB/s)		124
Standard Deviation		3.3%
Flexible IO Tester - Seq Read - IO_uring - No - Yes - 4KB - /temp (MB/s)		178
Standard Deviation		2.3%
Flexible IO Tester - Seq Write - IO_uring - No - Yes - 4KB - /temp (MB/s)		132
Standard Deviation		4.9%

Flexible IO Tester 3.29

Type: Random Read - Engine: IO_uring - Buffered: No - Direct: No - Block Size: 1MB - Disk Target: /temp



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

Flexible IO Tester 3.29

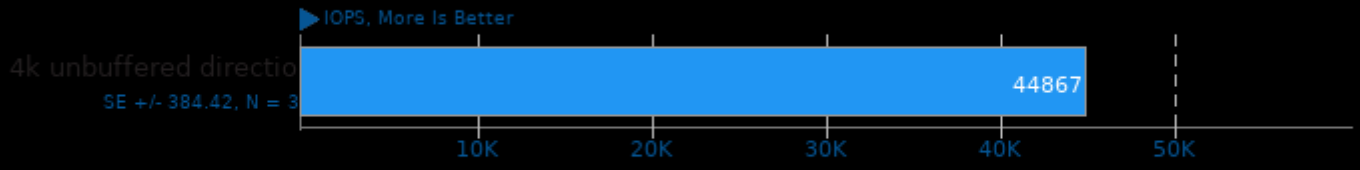
Type: Random Read - Engine: IO_uring - Buffered: No - Direct: No - Block Size: 2MB - Disk Target: /temp



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Flexible IO Tester 3.29

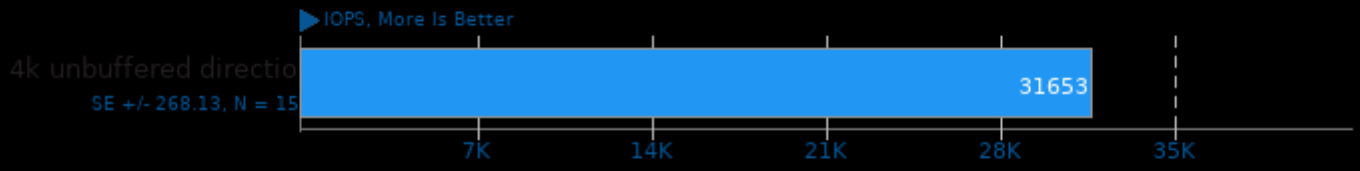
Type: Random Read - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: /temp



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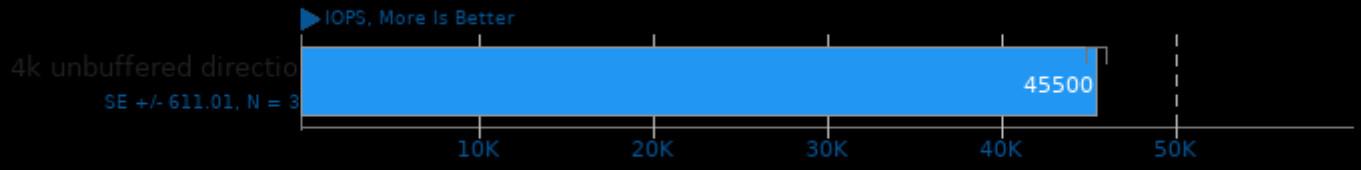
Type: Random Write - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: /temp



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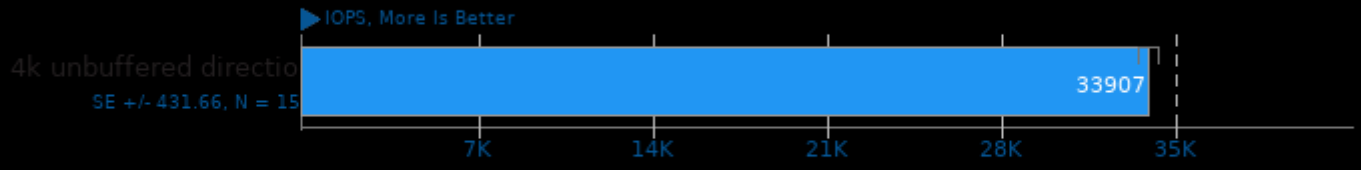
Type: Sequential Read - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: /temp



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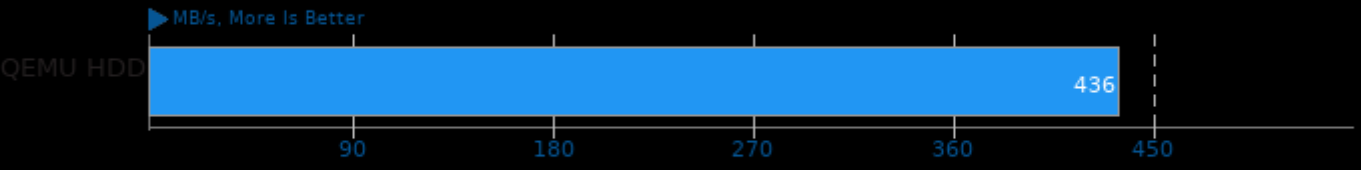
Type: Sequential Write - Engine: IO_uring - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: /temp



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Flexible IO Tester 3.29

Type: Random Read - Engine: IO_uring - Buffered: No - Direct: No - Block Size: 1MB - Disk Target: /temp



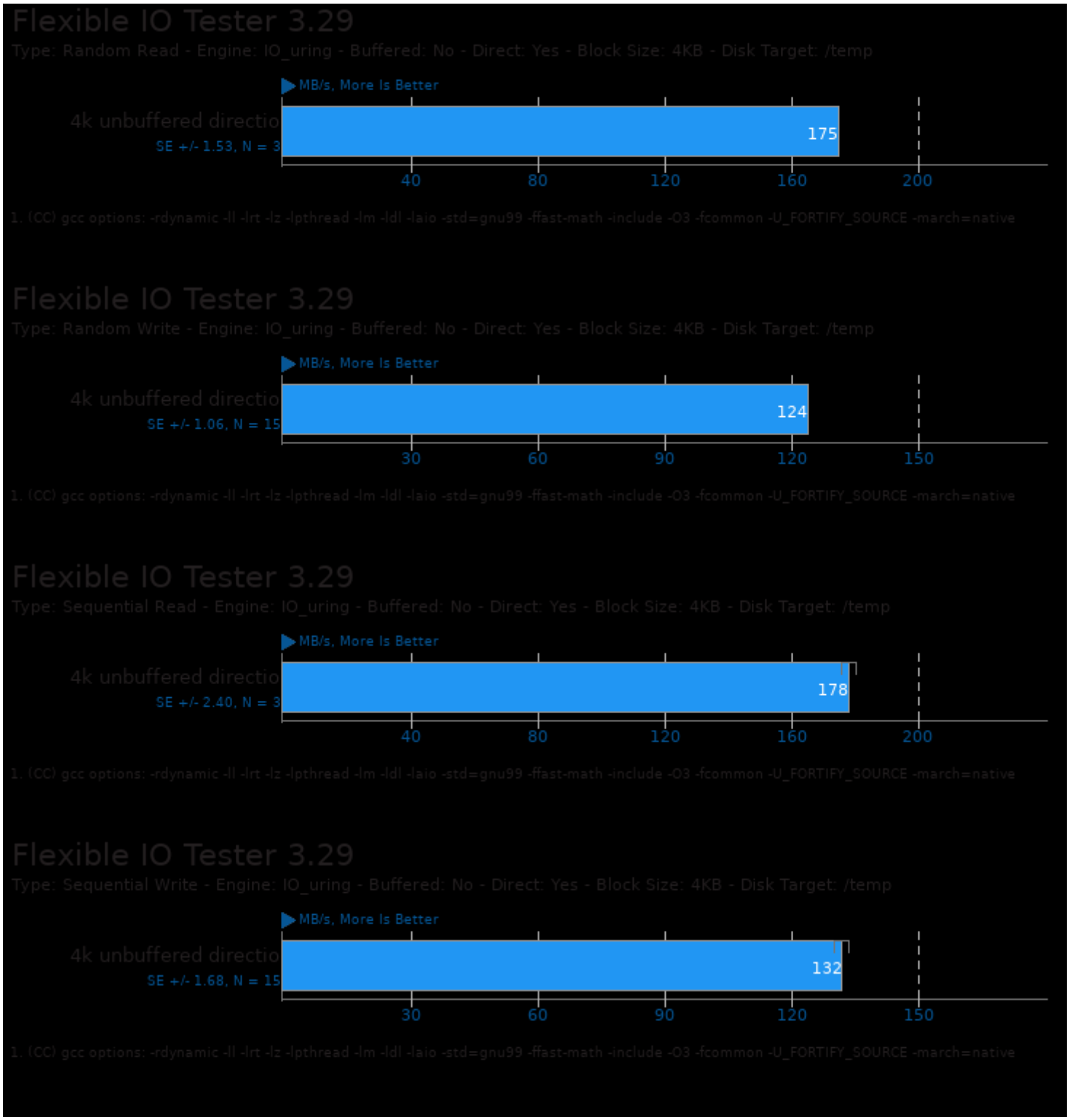
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Flexible IO Tester 3.29

Type: Random Read - Engine: IO_uring - Buffered: No - Direct: No - Block Size: 2MB - Disk Target: /temp



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



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