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# lambda-cntr-iozone-8GB

Docker testing on Ubuntu 20.10 via the Phoronix Test Suite.

**Automated Executive Summary**

*native had the most wins, coming in first place for 62% of the tests.*

*Based on the geometric mean of all complete results, the fastest (native) was 1.579x the speed of the slowest (lambda-cntr).*

## Test Systems:

### lambda-cntr

Processor: Intel Core i5-8305G (2 Cores / 4 Threads), Memory: 3072MB, Disk: 2 x 275GB Virtual Disk

OS: Ubuntu 20.10, Kernel: 4.19.84-microsoft-standard+ (x86_64), Compiler: GCC 10.3.0, File-System: fuseblk, Screen Resolution: 1024x768, System Layer: Docker

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++,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-poYruo/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-poYruo/gcc-10-10.3.0/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: MQ-DEADLINE / allow_other,default_permissions,group_id=0,relatime,rw,user_id=0 / Block Size: 4096
Processor Notes: Scaling Governor: intel_cpufreq ondemand - CPU Microcode: 0x5003102
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of TSX disabled

## native

Processor: Intel Core i5-8305G (2 Cores / 4 Threads), Memory: 3072MB, Disk: 2 x 275GB Virtual Disk

OS: Ubuntu 20.10, Kernel: 4.19.84-microsoft-standard+ (x86_64), Compiler: GCC 10.3.0, File-System: overlayfs, Screen Resolution: 1024x768, System Layer: Docker

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++,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-poYruo/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-poYruo/gcc-10-10.3.0/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
Processor Notes: Scaling Governor: intel_cpufreq ondemand - CPU Microcode: 0x5003102
Disk Scheduler Notes: MQ-DEADLINE
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of TSX disabled

| | lambda-cntr | native |
|---|---|---|
| **IOzone - 2MB - 8GB - Write Performance (MB/s)** | **117.326171875** | **321.79** |
| **Normalized** | 36.46% | 100% |
| **Standard Deviation** | 0.5% | 1.2% |
| **IOzone - 64Kb - 8GB - Write Performance (MB/s)** | **57.17** | **148.60** |
| **Normalized** | 38.47% | 100% |
| **Standard Deviation** | 2.4% | 0.1% |
| **IOzone - 1MB - 8GB - Write Performance (MB/s)** | **115.58** | **282.78** |
| **Normalized** | 40.87% | 100% |
| **Standard Deviation** | 1.3% | 0.1% |
| **IOzone - 4Kb - 8GB - Write Performance (MB/s)** | **7.68** | **18.76** |
| **Normalized** | 40.94% | 100% |
| **Standard Deviation** | 1% | 0.4% |
| **IOzone - 4Kb - 8GB - Read Performance (MB/s)** | **5540** | **5192** |
| **Normalized** | 100% | 93.72% |
| **Standard Deviation** | 3.7% | 4.9% |
| **IOzone - 64Kb - 8GB - Read Performance (MB/s)** | **7267** | **6861** |
| **Normalized** | 100% | 94.42% |
| **Standard Deviation** | 2.3% | 0.6% |
| **IOzone - 2MB - 8GB - Read Performance (MB/s)** | **6800** | **6672** |
| **Normalized** | 100% | 98.11% |
| **Standard Deviation** | 3.5% | 5.4% |
| **IOzone - 1MB - 8GB - Read Performance (MB/s)** | **6652** | **6940** |

# lambda-cntr-iozone-8GB

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|---|---|---|
| **Normalized** | 95.85% | 100% |
| **Standard Deviation** | 6.1% | 1.1% |

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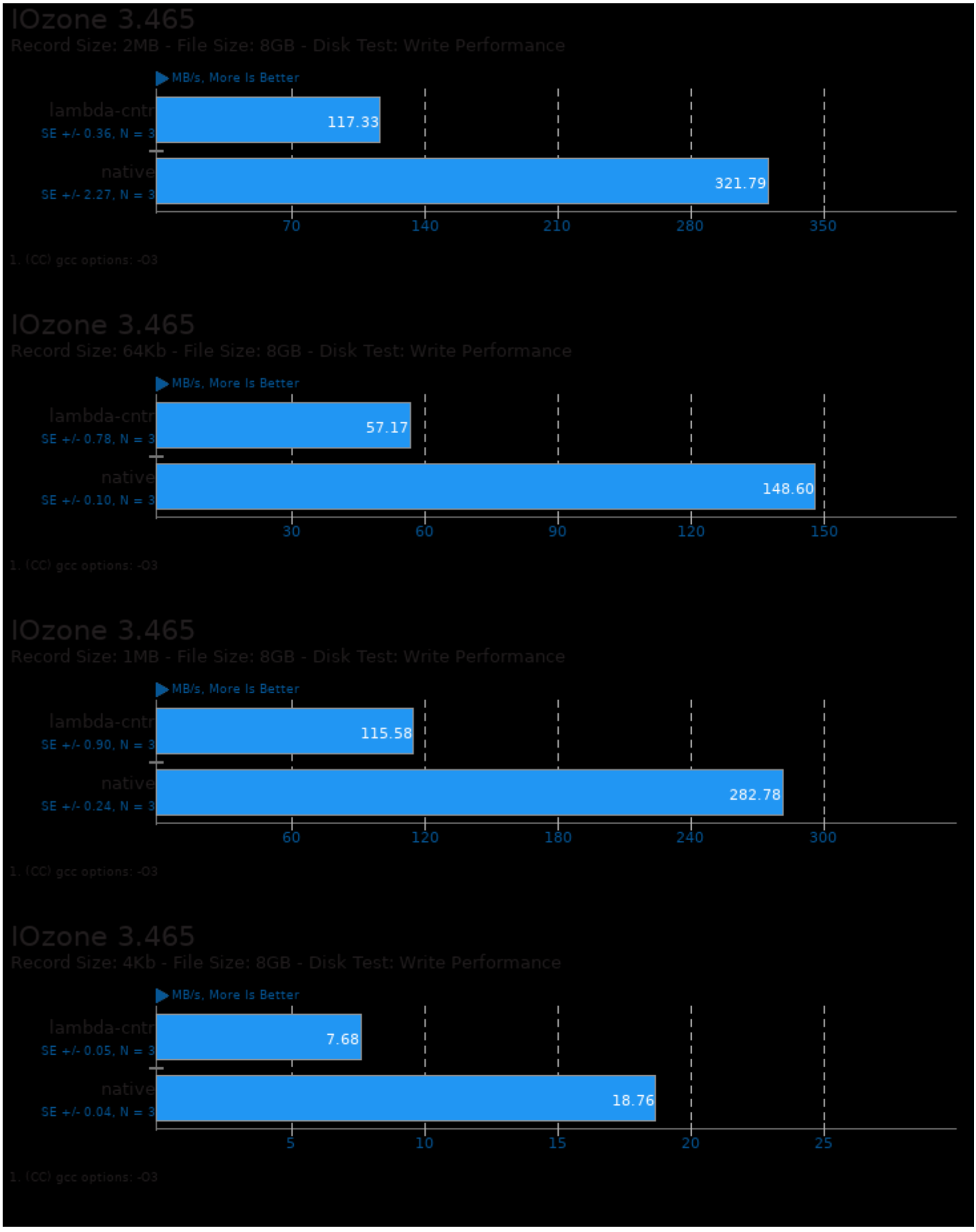

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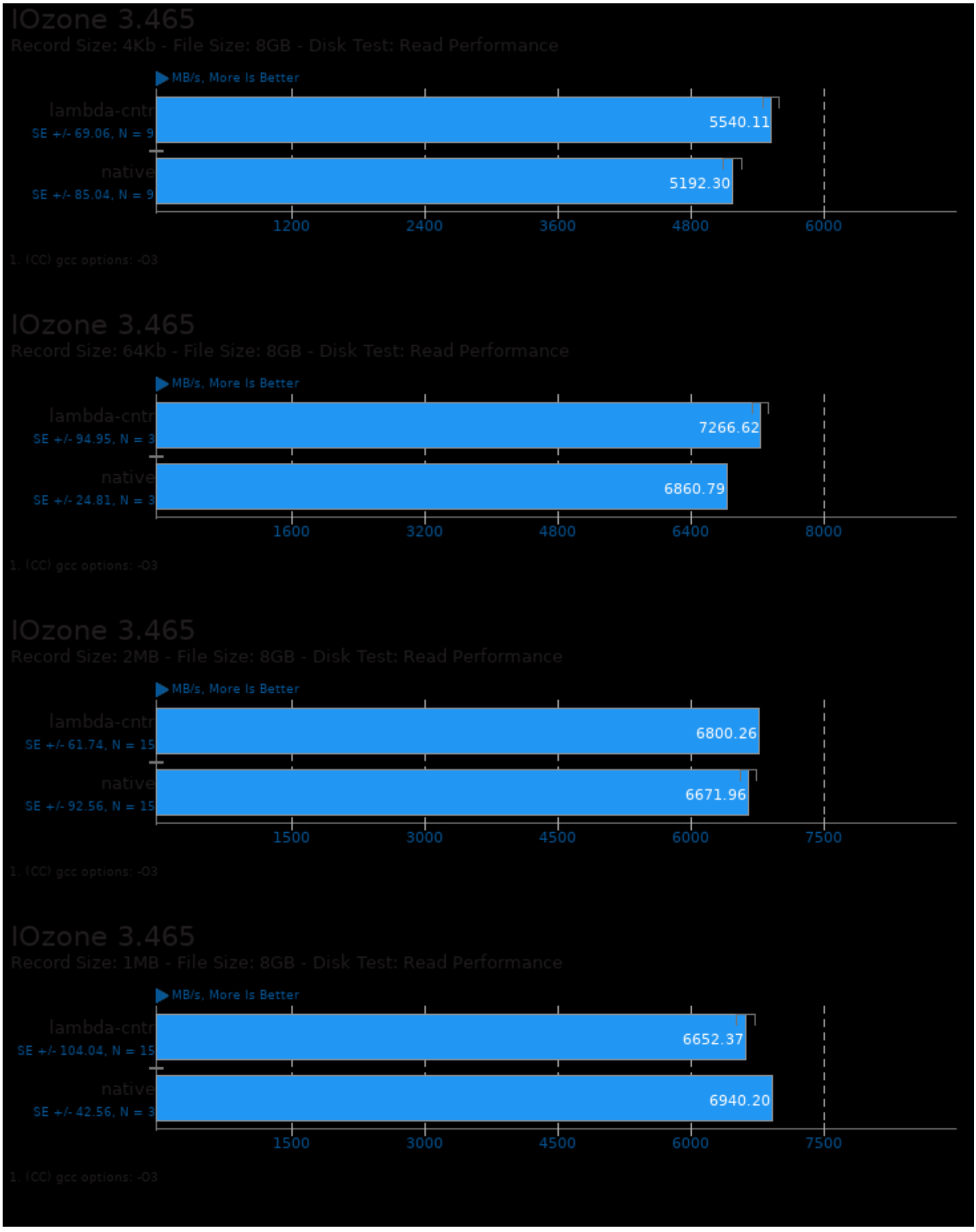

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*This file was automatically generated via the Phoronix Test Suite benchmarking software on Monday, 13 January 2025 21:22.*