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lambda-cntr-iozone-512

Docker testing on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

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

Based on the geometric mean of all complete results, the fastest (ephemeral) was 1.634x the speed of the slowest (lambda-cntr). native was 0.998x the speed of ephemeral and lambda-cntr was 0.613x the speed of native.

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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IPB: conditional RSB filling + srbs: Not affected + tsx_async_abort: Mitigation of TSX disabled

native

ephemeral

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

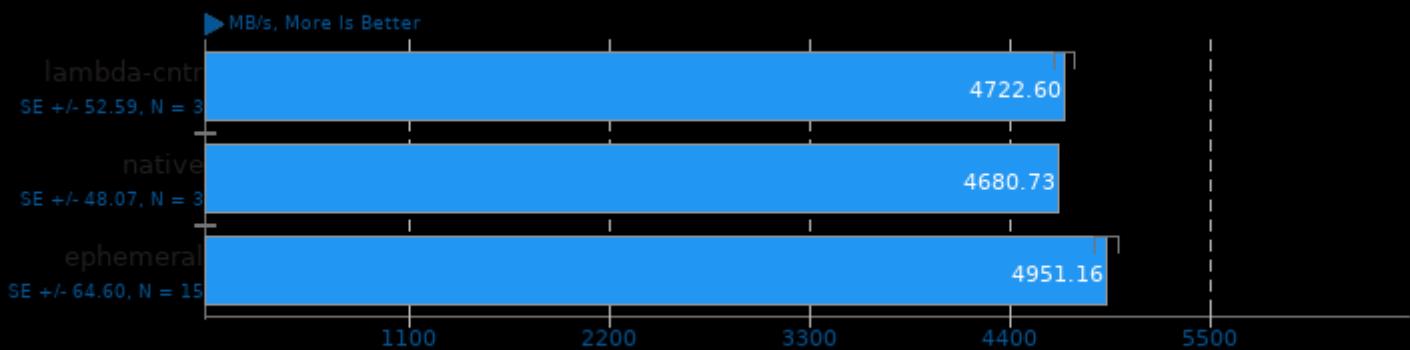
Kernel Notes: Transparent Huge Pages: madvise
 Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie
 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IPB: conditional RSB filling + srbs: Not affected + tsx_async_abort: Mitigation of TSX disabled

	lambda-cntr	native	ephemeral
IOzone - 1MB - 512MB - Read Performance	4723	4681	4951
(MB/s)			
Normalized	95.38%	94.54%	100%
Standard Deviation	1.9%	1.8%	5.1%
IOzone - 2MB - 512MB - Read Performance	4852	4725	4900
(MB/s)			
Normalized	99.03%	96.42%	100%
Standard Deviation	0.9%	2.3%	1.2%
IOzone - 4Kb - 512MB - Read Performance	3905	5003	4566
(MB/s)			
Normalized	78.04%	100%	91.26%
Standard Deviation	0.9%	2.3%	16.7%
IOzone - 1MB - 512MB - Write Performance	110.32	278.504557292	278.76
(MB/s)			
Normalized	39.58%	99.91%	100%
Standard Deviation	7.2%	1.1%	0.9%

IOzone - 2MB - 512MB - Write Performance	110.87 (MB/s)	286.24	290.97
Normalized	38.1%	98.37%	100%
Standard Deviation	6.5%	0.9%	4.6%
IOzone - 4Kb - 512MB - Write Performance	7.95 (MB/s)	18.58	18.47
Normalized	42.79%	100%	99.41%
Standard Deviation	1.1%	0.6%	2.6%
IOzone - 64Kb - 512MB - Read Performance	5193 (MB/s)	5181	5205
Normalized	99.78%	99.54%	100%
Standard Deviation	2%	2.1%	0.6%
IOzone - 64Kb - 512MB - Write Performance	55.681640625 (MB/s)	147.847656250	147.811197917
Normalized	37.66%	100%	99.98%
Standard Deviation	1.5%	0.8%	0.4%

IOzone 3.465

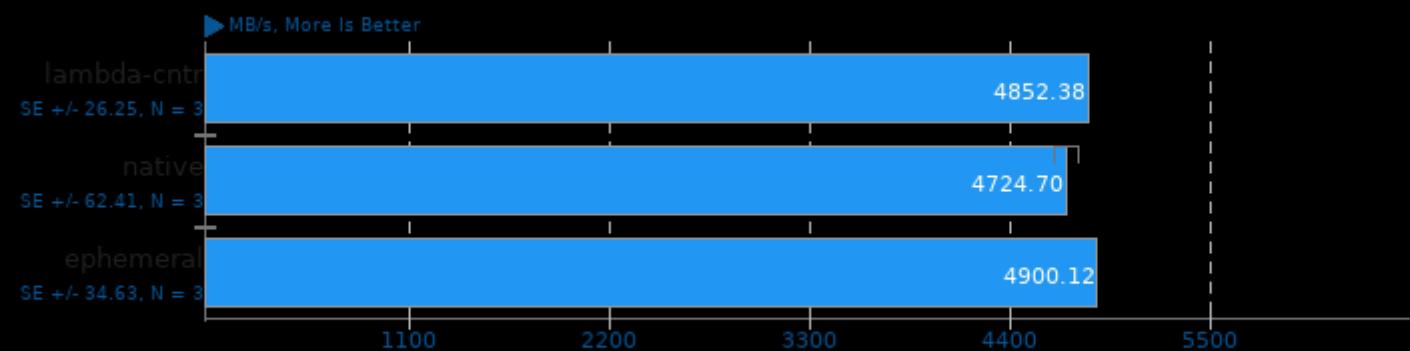
Record Size: 1MB - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

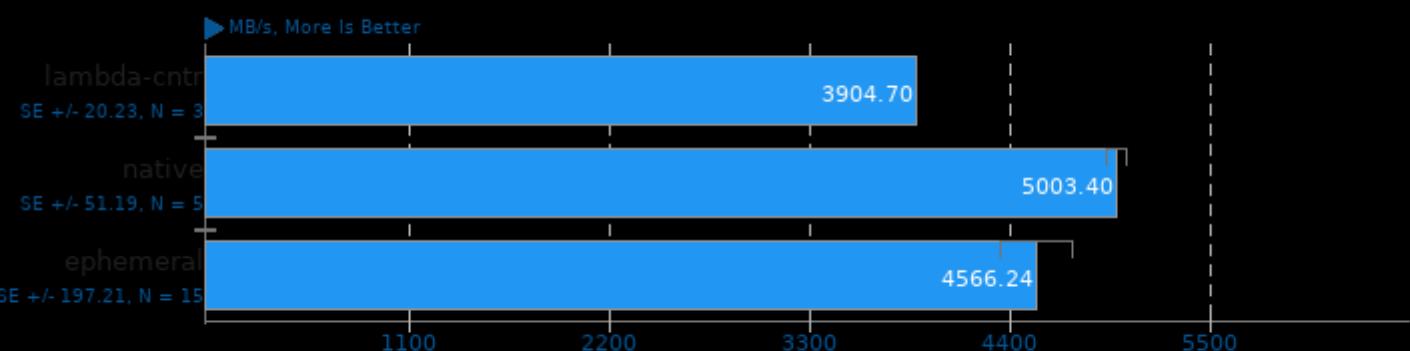
Record Size: 2MB - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

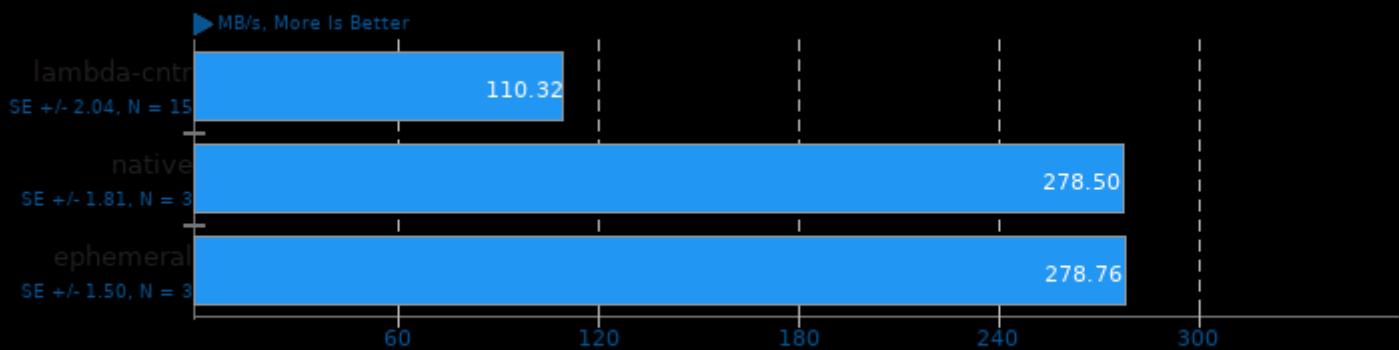
Record Size: 4Kb - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

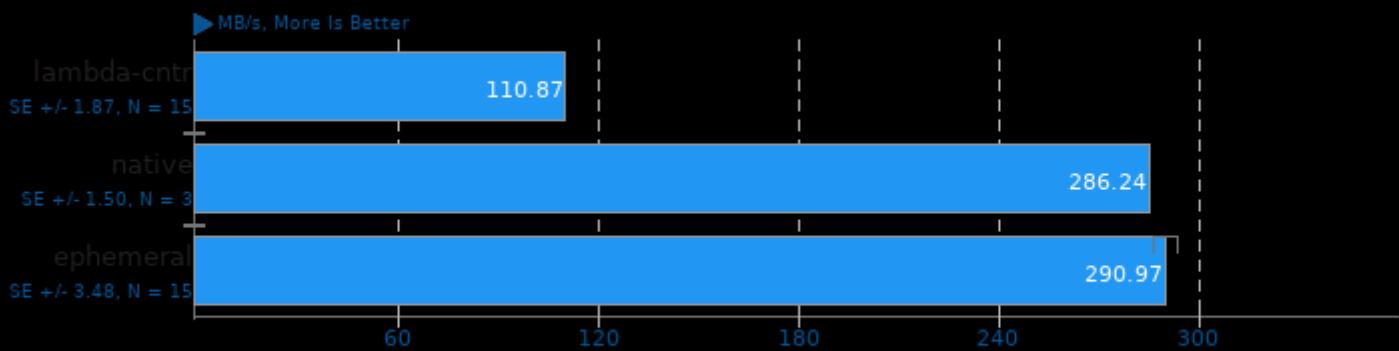
Record Size: 1MB - File Size: 512MB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

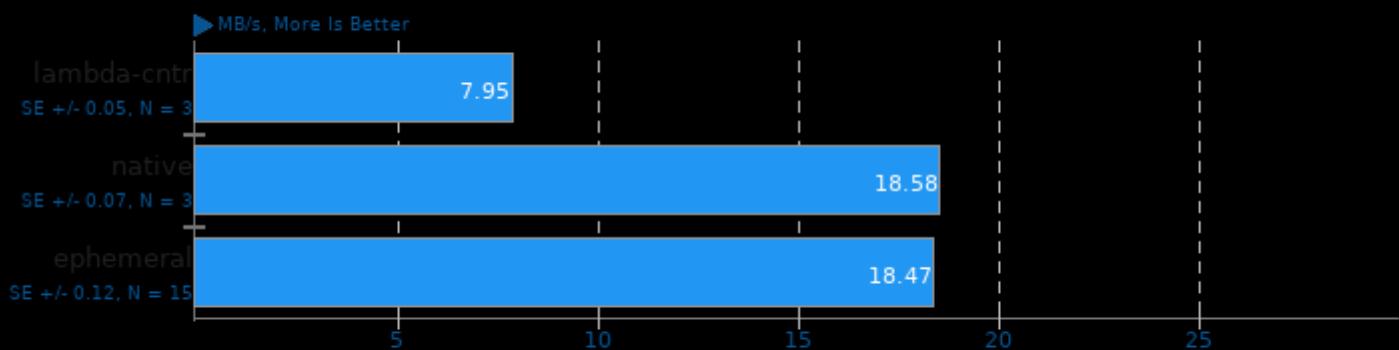
Record Size: 2MB - File Size: 512MB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

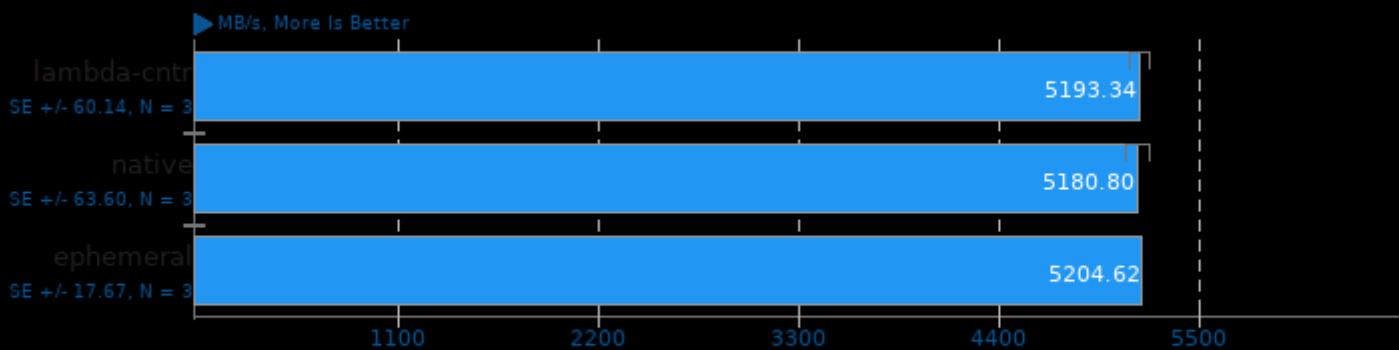
Record Size: 4Kb - File Size: 512MB - Disk Test: Write Performance



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IOzone 3.465

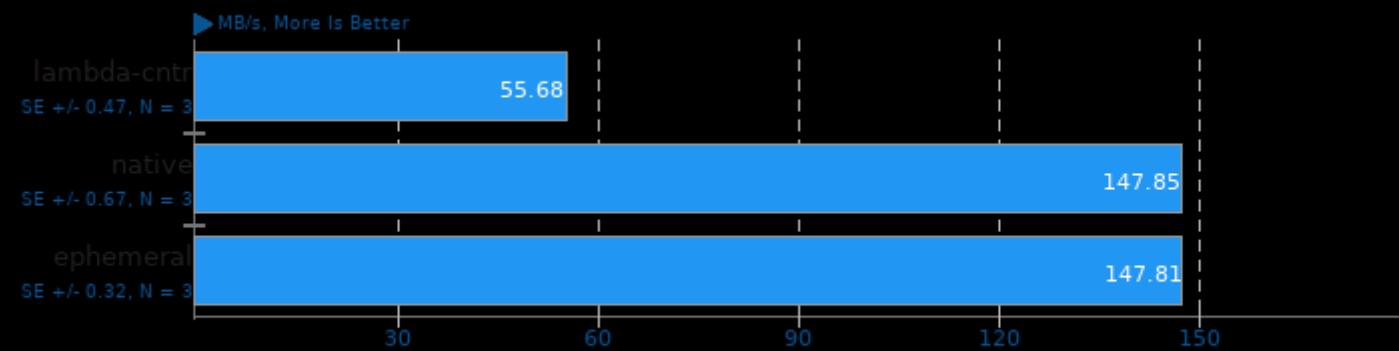
Record Size: 64Kb - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

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



1. (CC) gcc options: -O3

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