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Intel Celeron J4105 testing with a HARDKERNEL ODROID-H2 v1.0 (5.13 BIOS) and Intel UHD 600 3GB on Clear Linux OS 30140 via the Phoronix Test Suite.

Test Systems:

second

Processor: Intel Celeron J4105 @ 2.50GHz (4 Cores), Motherboard: HARDKERNEL ODROID-H2 v1.0 (5.13 BIOS), Chipset: Intel Device 31f0, Memory: 16384MB, Disk: 500GB Western Digital WDS500G1B0C-00S6U0, Graphics: Intel UHD 600 3GB (750MHz), Audio: Realtek ALC662 rev1, Monitor: XB271HU, Network: 2 x Realtek RTL8111/8168/8411

OS: Clear Linux OS 30140, Kernel: 5.1.15-791.native (x86_64), Desktop: GNOME Shell 3.32.2, Display Server: X Server 1.20.5, Display Driver: modesetting 1.20.5, OpenGL: 4.5 Mesa 19.2.0-devel, OpenCL: OpenCL 1.2, Vulkan: 1.1.102, Compiler: GCC 9.1.1 20190701 gcc-9-branch@272838 + Clang 8.0.0 + LLVM 8.0.0, File-System: ext4, Screen Resolution: 2560x1440

Environment Notes: CFFLAGS=-g-O3-feliminate-unused-debug-types-pipe-Wall-Wp-D_FORTIFY_SOURCE=2-fexceptions-fstack-protector--param=ssp-buffer-size=32-m64-fasynchronous-un

wind-tables-Wp-D_REENTRANT-ftree-loop-distribute-patterns-Wl-z-Wl now-Wl-z-Wl
relro-malign-data=abi-fno-semantic-interposition-ftree-vectorize-ftree-loop-vectorize-Wl-sort-common-Wl--enable-new-dtags
FFLAGS=-g-O3-feliminate-unused-debug-types-pipe-Wall-Wp-D_FORTIFY_SOURCE=2-fexceptions-fstack-protector--param=ssp-buffer-size=32-m64-fasynchronous-unwind-tables-Wp-D_REENTRANT-ftree-loop-distribute-patterns-Wl-z-Wl
relro-malign-data=abi-fno-semantic-interposition-ftree-vectorize-ftree-loop-vectorize-Wl--enable-new-dtags
CXXFLAGS=-g-O3-feliminate-unused-debug-types-pipe-Wall-Wp-D_FORTIFY_SOURCE=2-fexceptions-fstack-protector--param=ssp-buffer-size=32-Wformat-Wformat-security-m64-fasynchronous-unwind-tables-Wp-D_REENTRANT-ftree-loop-distribute-patterns-Wl-z-Wl
relro-fno-semantic-interposition-ffat-lto-objects-fno-signed-zeros-fno-trapping-math-fassociative-math-Wl-sort-common-Wl--enable-new-dtags-mtune=skylake-fvisibility-inlines-hidden-Wl--enable-new-dtags MESA_GLSL_CACHE_DISABLE=0
CFLAGS=-g-O3-feliminate-unused-debug-types-pipe-Wall-Wp-D_FORTIFY_SOURCE=2-fexceptions-fstack-protector--param=ssp-buffer-size=32-Wformat-Wformat-security-m64-fasynchronous-unwind-tables-Wp-D_REENTRANT-ftree-loop-distribute-patterns-Wl-z-Wl
relro-fno-semantic-interposition-ffat-lto-objects-fno-signed-zeros-fno-trapping-math-fassociative-math-Wl-sort-common-Wl--enable-new-dtags-mtune=skylake
THEANO_FLAGS=floatX=float32 openmp=true gcc.cxxflags="-ftree-vectorize-mavx"
Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-clocale=gnu --enable-default-pie --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-gcc-major-version-only --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256
Processor Notes: Scaling Governor: intel_pstate performance
Security Notes: l1tf: Not affected + mds: Not affected + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling

	second
PostgreSQL pgbench - On-Disk - Normal Load - Read Write (TPS)	2530
Standard Deviation	0.3%
PostgreSQL pgbench - Mostly RAM - Normal Load - Read Write	2958
Standard Deviation	1.7%
Tinymembench - Standard Memset (MB/s)	7224
Standard Deviation	0.2%
Tinymembench - Standard Memcpy (MB/s)	5219
Standard Deviation	0.1%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 1MB (MB/s)	1364
Standard Deviation	3.8%
FS-Mark - 4.F.3.S.D.1.S (Files/s)	183.21
Standard Deviation	4.8%
Apache Benchmark - S.W.P.S (Reqs/sec)	9332
Standard Deviation	0.1%
PostgreSQL pgbench - Buffer Test - Normal Load - Read Write	3809
Standard Deviation	0.4%
RAMspeed SMP - Average - Integer (MB/s)	10901
RAMspeed SMP - Average - Floating Point (MB/s)	10962
x264 - H.2.V.E (FPS)	12.35
Standard Deviation	0.1%
Flexible IO Tester - Rand Read - Linux AIO - Yes - Yes - 1MB (MB/s)	3567
Standard Deviation	2.9%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 1MB (MB/s)	689
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 1MB (MB/s)	688
Flexible IO Tester - Seq Write - Linux AIO - No - No - 1MB (MB/s)	689
Flexible IO Tester - Rand Write - Linux AIO - No - No - 1MB (MB/s)	689
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 1MB (MB/s)	857
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 1MB (MB/s)	858
Standard Deviation	0.1%
Flexible IO Tester - Seq Read - Linux AIO - No - No - 1MB (MB/s)	857
Standard Deviation	0.1%
Flexible IO Tester - Seq Write - Linux AIO - Yes - Yes - 1MB (MB/s)	1281

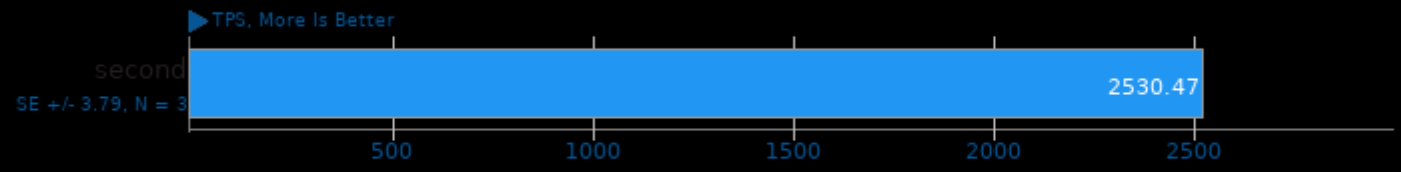
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Standard Deviation	0.6%
Flexible IO Tester - Rand Read - Linux AIO - No - No - 1MB (MB/s)	857
Flexible IO Tester - Rand Write - Linux AIO - Yes - Yes - 1MB (MB/s)	1922
Standard Deviation	0.7%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 1MB (MB/s)	1907
Standard Deviation	2%
Flexible IO Tester - Seq Read - Linux AIO - Yes - Yes - 1MB (MB/s)	3593
Standard Deviation	2.1%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 1MB (MB/s)	3632
Standard Deviation	0.2%
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 1MB (MB/s)	3636
Standard Deviation	0.2%
PHPBench - P.B.S (Score)	379915
Standard Deviation	0.1%
OpenSSL - R.4.b.P (Signs/sec)	246.30
Standard Deviation	0%
Git - T.T.C.C.G.C (sec)	13.25
Standard Deviation	1.6%

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PostgreSQL pgbench 10.3

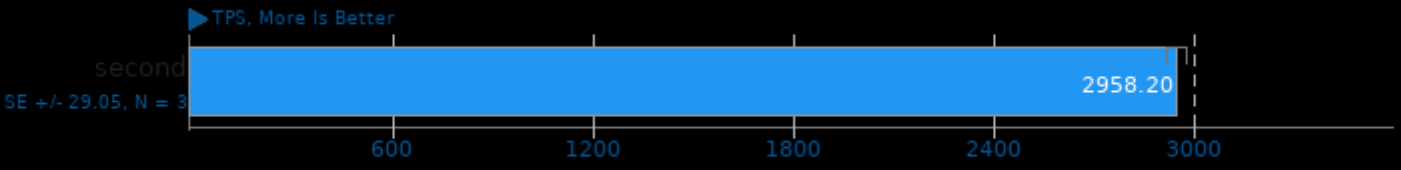
Scaling: On-Disk - Test: Normal Load - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O3 -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-signed-zeros -fno-trapping-math -fassoc

PostgreSQL pgbench 10.3

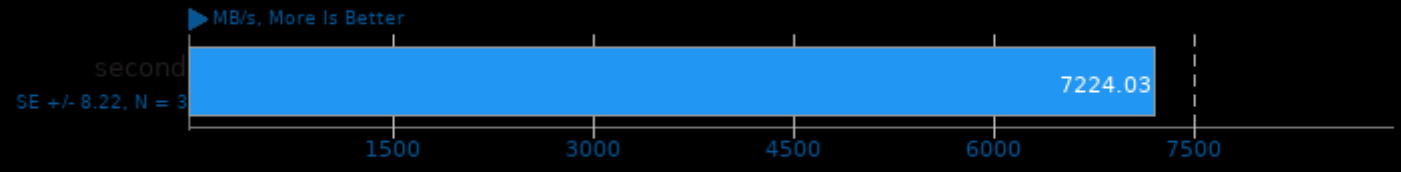
Scaling: Mostly RAM - Test: Normal Load - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O3 -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-signed-zeros -fno-trapping-math -fassoc

Tinymembench 2018-05-28

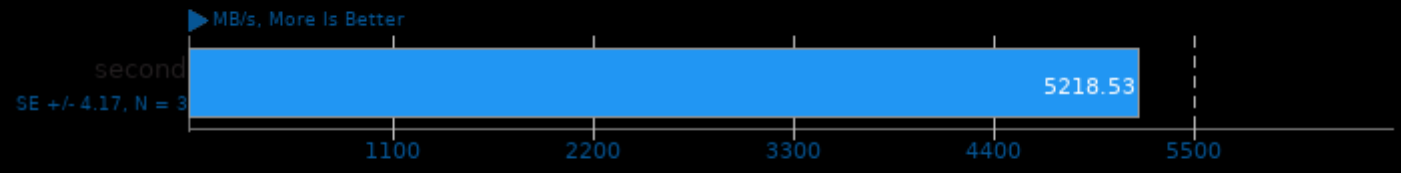
Standard Memset



1. (CC) gcc options: -O2 -O3 -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-signed-zeros -fno-trapping-math -fassociative-math -mtune=s

Tinymembench 2018-05-28

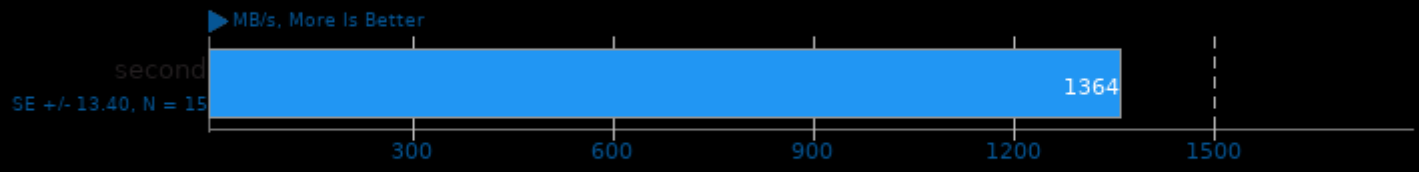
Standard Memcpy



1. (CC) gcc options: -O2 -O3 -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-signed-zeros -fno-trapping-math -fassociative-math -mtune=s

Flexible IO Tester 3.1

Type: Sequential Write - IO Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory



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

FS-Mark 3.3

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



1. (CC) gcc options: -static

Apache Benchmark 2.4.29

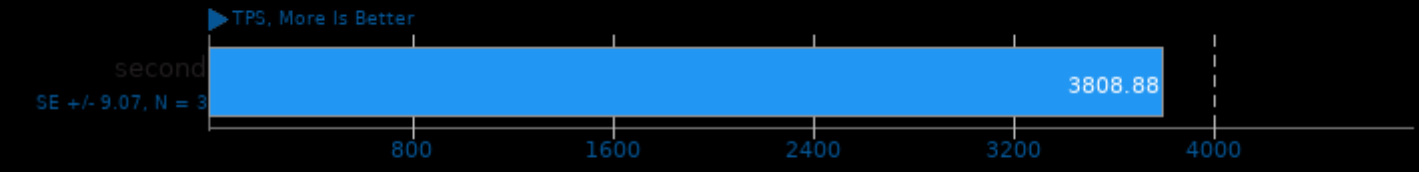
Static Web Page Serving



1. (CC) gcc options: -shared -fPIC -pthread -O3 -fstack-protector -m64 -mtune=skylake

PostgreSQL pgbench 10.3

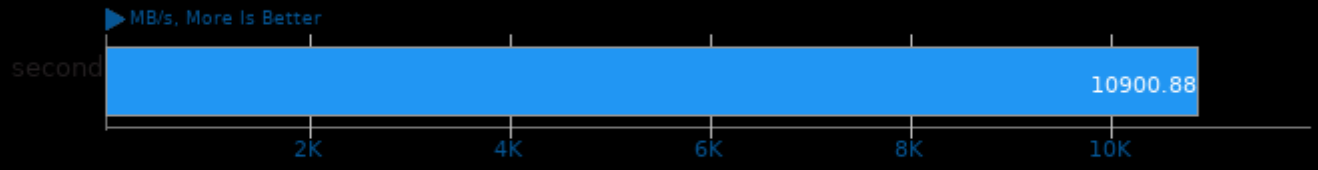
Scaling: Buffer Test - Test: Normal Load - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O3 -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-signed-zeros -fno-trapping-math -fassoc

RAMspeed SMP 3.5.0

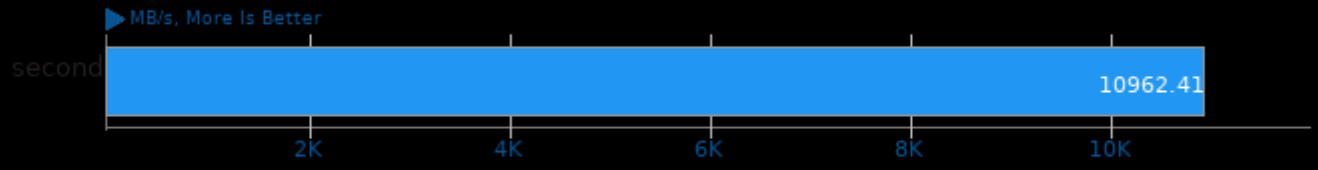
Type: Average - Benchmark: Integer



1. (CC) gcc options: -O3 -march=native -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-signed-zeros -fno-trapping-math -fassociative-mat

RAMspeed SMP 3.5.0

Type: Average - Benchmark: Floating Point



1. (CC) gcc options: -O3 -march=native -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-signed-zeros -fno-trapping-math -fassociative-mat

x264 2018-09-25

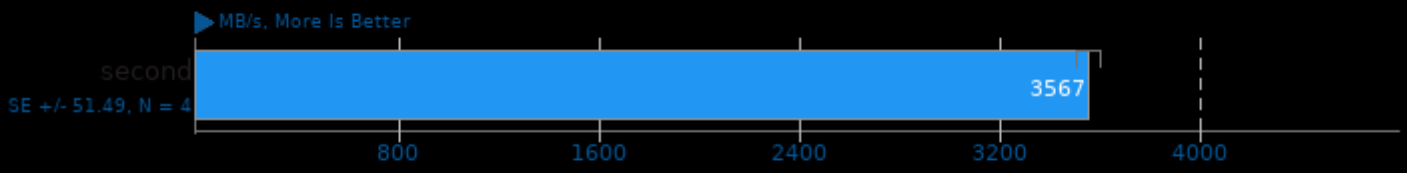
H.264 Video Encoding



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -pipe -fexceptions -fstack-protector -ffat-lto-objects -fno-signed-zeros -fno-trapping-math -fass

Flexible IO Tester 3.1

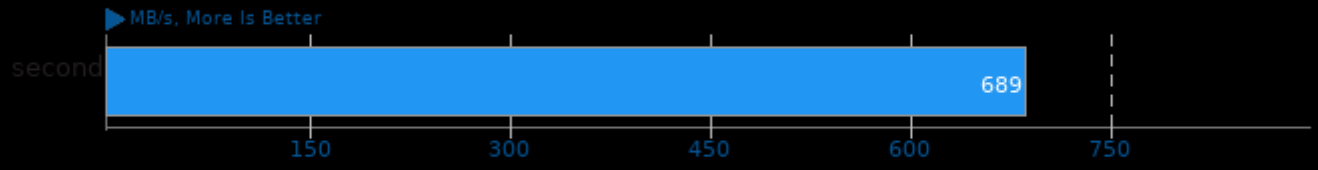
Type: Random Read - IO Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

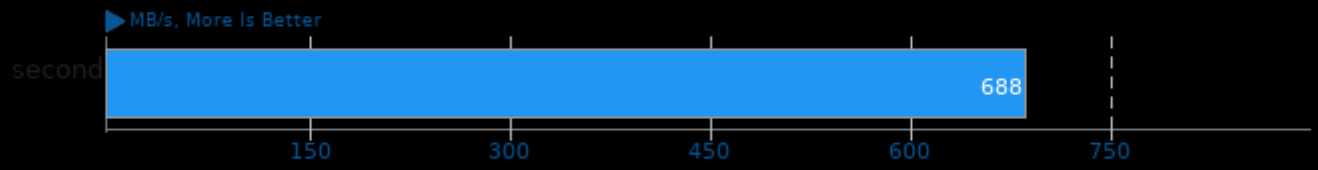
Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

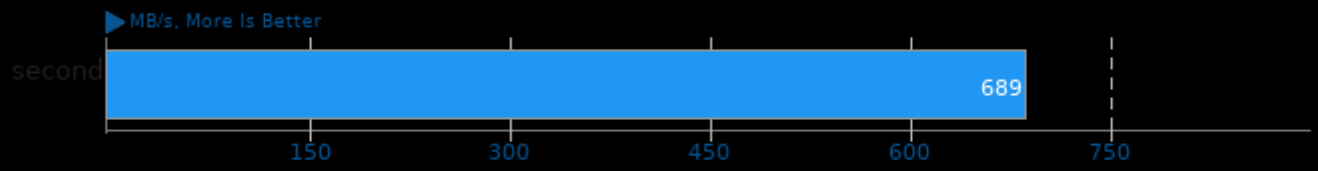
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

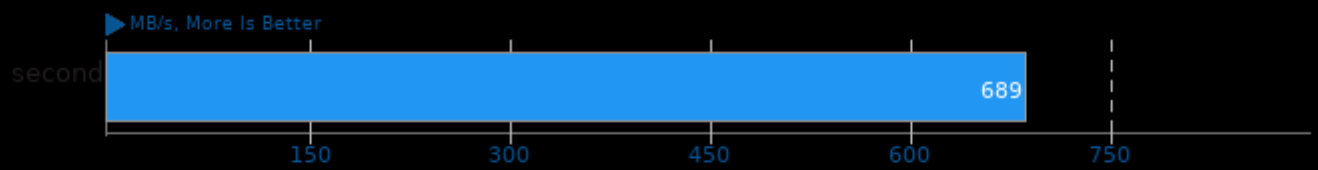
Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

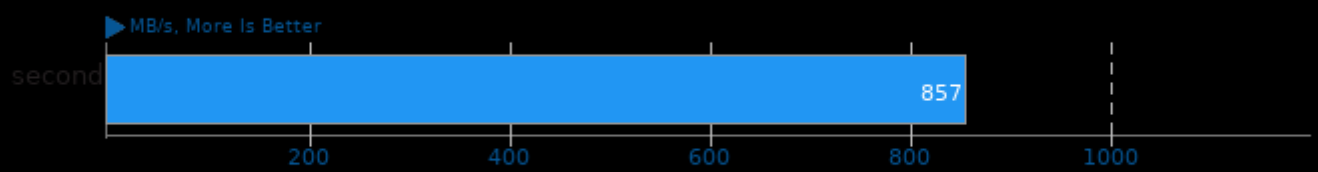
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

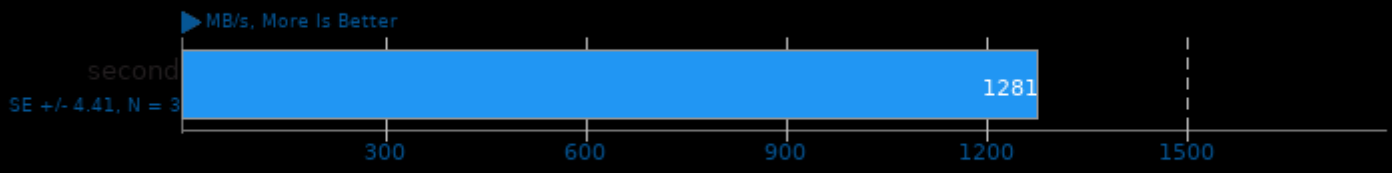
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

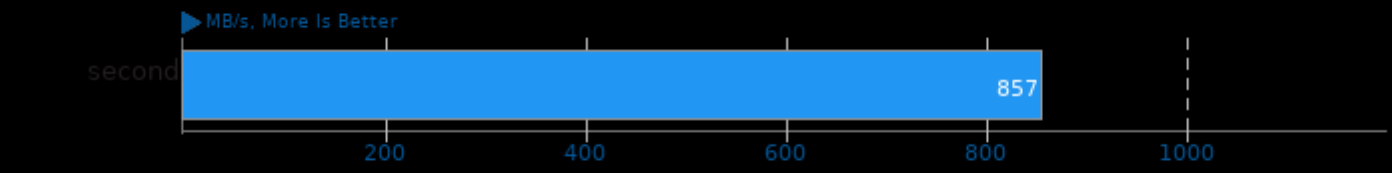
Type: Sequential Write - IO Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

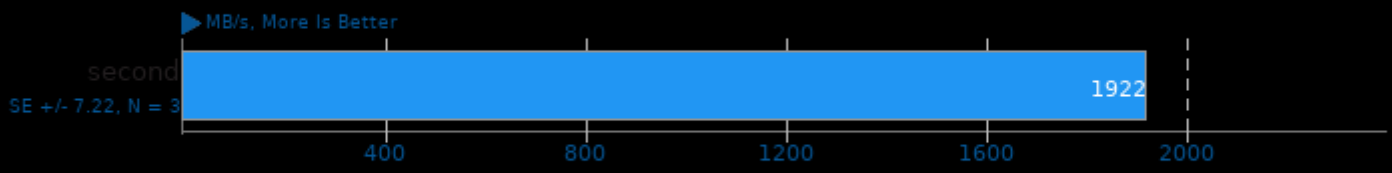
Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

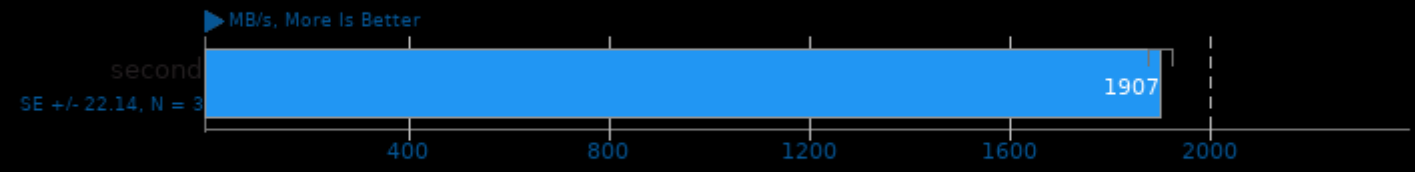
Type: Random Write - IO Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

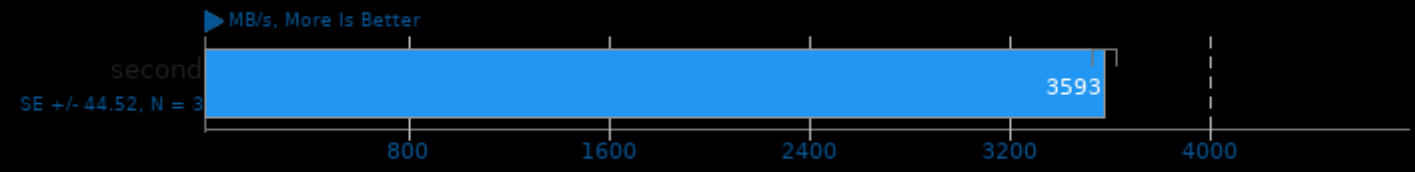
Type: Random Write - IO Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

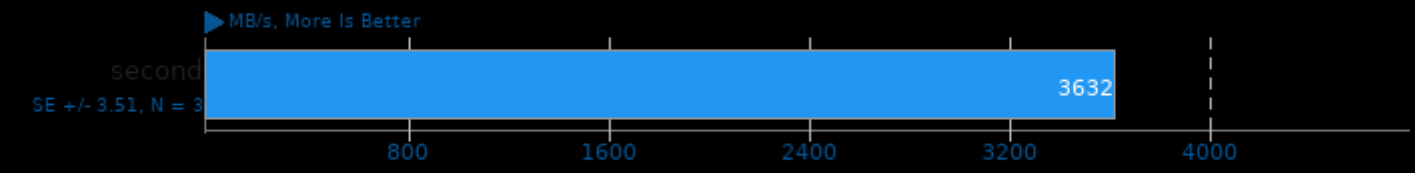
Type: Sequential Read - IO Engine: Linux AIO - Buffered: Yes - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

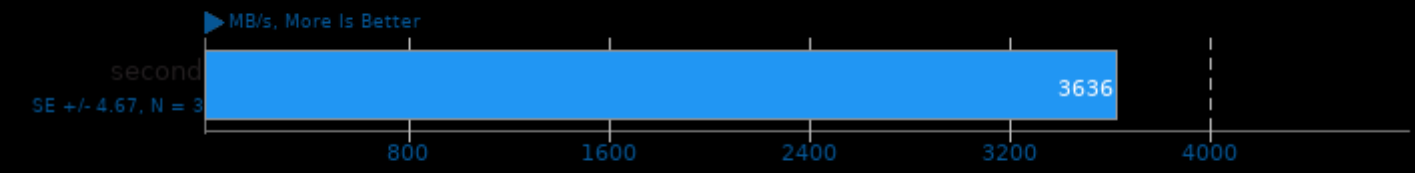
Type: Random Read - IO Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory



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

Flexible IO Tester 3.1

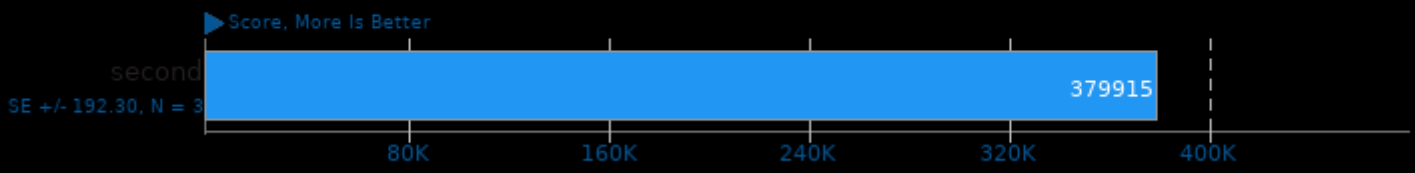
Type: Sequential Read - IO Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory



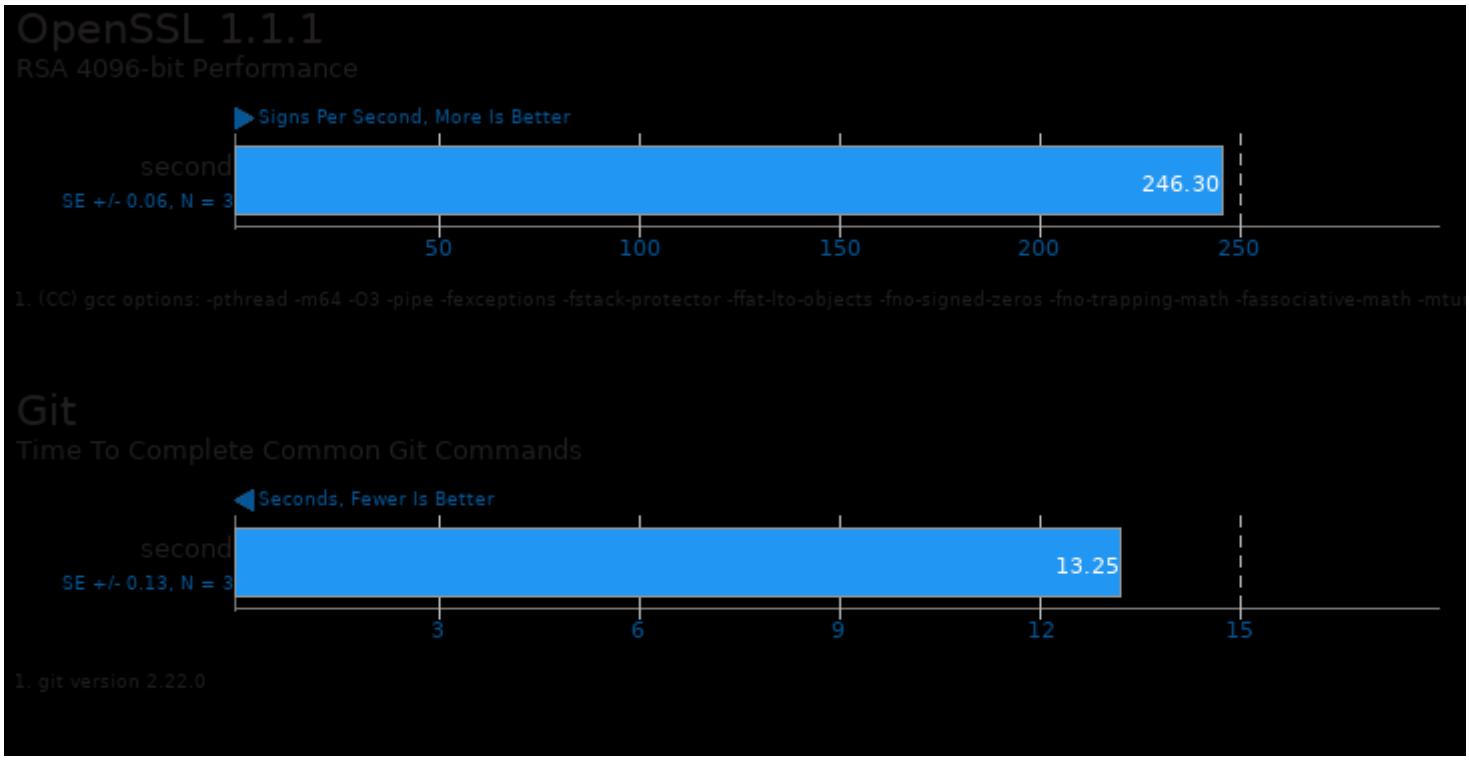
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lnuma -lrt -laio -lz -lm -lpthread -ldl

PHPBench 0.8.1

PHP Benchmark Suite



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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 05:33.