



[www.phoronix-test-suite.com](http://www.phoronix-test-suite.com)

## pulse15programmer

AMD Ryzen 7 4800H testing with a TUXEDO s PULSE1501 (N.1.07.A02 BIOS) and AMD Renoir on Arch rolling via the Phoronix Test Suite.

### Test Systems:

#### Pulse-15\_Default\_Programmer

Processor: AMD Ryzen 7 4800H @ 2.90GHz (8 Cores / 16 Threads), Motherboard: TUXEDO s PULSE1501 (N.1.07.A02 BIOS), Chipset: AMD Renoir Root Complex, Memory: 30GB, Disk: 250GB SSD 850 EVO mSAT + 64GB 5FKGQ, Graphics: AMD Renoir (1600/400MHz), Audio: AMD Device 1637, Monitor: LQ156M1JW01, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

OS: Arch rolling, Kernel: 5.11.13-arch1-1 (x86\_64), Display Server: X Server 1.20.10, OpenGL: 4.6 Mesa 21.0.2 (LLVM 11.1.0), Vulkan: 1.2.173, Compiler: GCC 10.2.0 + Clang 11.1.0 + LLVM 11.1.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-\_\_cxa\_atexit --enable-cet=auto --enable-checking=release

```
--enable-clocale=gnu      --enable-default-pie      --enable-default-ssp      --enable-gnu-indirect-function      --enable-gnu-unique-object      --enable-install-liberty
--enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man
--with-isl --with-linker-hash-style=gnu
```

Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8600103

Python Notes: Python 3.9.2

Security Notes: itlb\_multihit: Not affected + 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 Full AMD retrpoline IBPB: conditional IBRS\_FW STIBP: conditional RSB filling + srbs: Not affected + tsx\_async\_abort: Not affected

## Pulse-15\_Default\_Programmer

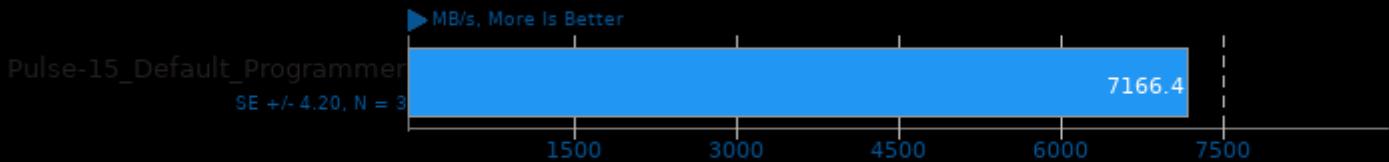
<b>C-Blosc - blosclz (MB/s)</b>	7166
Standard Deviation	0.1%
<b>Algebraic Multi-Grid Benchmark (Figure Of Merit)</b>	270286067
Standard Deviation	0.2%
<b>simdjson - Kostya (GB/s)</b>	2.86
Standard Deviation	0.2%
<b>simdjson - LargeRand (GB/s)</b>	0.93
Standard Deviation	1.1%
<b>simdjson - PartialTweets (GB/s)</b>	3.67
Standard Deviation	0.2%
<b>simdjson - DistinctUserID (GB/s)</b>	4.17
Standard Deviation	0.4%
<b>Zstd Compression - 3 - Compression Speed (MB/s)</b>	1530
Standard Deviation	0.7%
<b>Zstd Compression - 3 - D.S (MB/s)</b>	3324
Standard Deviation	0.3%
<b>Zstd Compression - 8 - Compression Speed (MB/s)</b>	252.8
Standard Deviation	0.5%
<b>Zstd Compression - 8 - D.S (MB/s)</b>	3423
Standard Deviation	0.3%
<b>Zstd Compression - 19 - Compression Speed (MB/s)</b>	27.8
Standard Deviation	0.4%
<b>Zstd Compression - 19 - D.S (MB/s)</b>	2881
Standard Deviation	0.3%
<b>Zstd Compression - 3, Long Mode - Compression Speed (MB/s)</b>	540.2
Standard Deviation	1.8%
<b>Zstd Compression - 3, Long Mode - D.S (MB/s)</b>	3518
Standard Deviation	0.2%
<b>Zstd Compression - 8, Long Mode - Compression Speed (MB/s)</b>	281.9
Standard Deviation	0.3%
<b>Zstd Compression - 8, Long Mode - D.S (MB/s)</b>	3612
Standard Deviation	0.3%
<b>Zstd Compression - 19, Long Mode - Compression Speed (MB/s)</b>	25.3
Standard Deviation	0.8%
<b>Zstd Compression - 19, Long Mode - D.S (MB/s)</b>	2940
Standard Deviation	0.2%
<b>ArrayFire - BLAS CPU (GFLOPS)</b>	224.230
Standard Deviation	0.9%
<b>ACES DGEMM - S.F.P.R (GFLOP/s)</b>	1.171841
Standard Deviation	0.8%
<b>Timed Apache Compilation - Time To Compile (sec)</b>	30.385
Standard Deviation	0.2%

<b>Timed Clash Compilation - Time To Compile (sec)</b>	422.664
Standard Deviation	0.3%
<b>Timed FFmpeg Compilation - Time To Compile (sec)</b>	60.612
Standard Deviation	0.5%
<b>Timed GCC Compilation - Time To Compile (sec)</b>	1227
Standard Deviation	17.6%
<b>Timed GDB GNU Debugger Compilation - Time To Compile (sec)</b>	135.841
Standard Deviation	0.5%
<b>Timed Godot Game Engine Compilation - Time To Compile (sec)</b>	179.080
Standard Deviation	0.7%
<b>Timed ImageMagick Compilation - Time To Compile (sec)</b>	39.242
Standard Deviation	0.6%
<b>Timed Linux Kernel Compilation - Time To Compile (sec)</b>	119.076
Standard Deviation	1.2%
<b>Timed LLVM Compilation - Time To Compile (sec)</b>	853.028
Standard Deviation	0.2%
<b>Timed Mesa Compilation - Time To Compile (sec)</b>	70.727
Standard Deviation	0.2%
<b>Timed MPlayer Compilation - Time To Compile (sec)</b>	47.704
Standard Deviation	0.3%
<b>Timed Node.js Compilation - Time To Compile (sec)</b>	660.460
Standard Deviation	0.2%
<b>Timed PHP Compilation - Time To Compile (sec)</b>	73.963
Standard Deviation	0.3%
<b>Build2 - Time To Compile (sec)</b>	187.417
Standard Deviation	0.4%
<b>Timed Eigen Compilation - Time To Compile (sec)</b>	85.235
Standard Deviation	0.4%
<b>Timed Erlang/OTP Compilation - Time To Compile (sec)</b>	156.178
Standard Deviation	0.1%
<b>Timed Wasmer Compilation - Time To Compile (sec)</b>	86.575
Standard Deviation	0.5%
<b>Node.js V8 Web Tooling Benchmark (runs/s)</b>	11.74
Standard Deviation	1.2%
<b>Cryptsetup - PBKDF2-sha512 (Iterations/sec)</b>	1860278
Standard Deviation	0.1%
<b>Cryptsetup - PBKDF2-whirlpool (Iterations/sec)</b>	748279
Standard Deviation	0.4%
<b>Cryptsetup - A.X.2.E (MiB/s)</b>	3028
Standard Deviation	0.6%
<b>Cryptsetup - A.X.2.D (MiB/s)</b>	2992
Standard Deviation	0.6%
<b>Cryptsetup - S.X.2.E (MiB/s)</b>	719.9
Standard Deviation	1.4%
<b>Cryptsetup - S.X.2.D (MiB/s)</b>	712.0
Standard Deviation	0.2%
<b>Cryptsetup - T.X.2.E (MiB/s)</b>	422.9
Standard Deviation	0.5%
<b>Cryptsetup - T.X.2.D (MiB/s)</b>	422.7
Standard Deviation	0%
<b>Cryptsetup - A.X.5.E (MiB/s)</b>	2580
Standard Deviation	0.2%
<b>Cryptsetup - A.X.5.D (MiB/s)</b>	2582

	Standard Deviation	0.3%
<b>Cryptsetup - S.X.5.E (MiB/s)</b>	726.8	
	Standard Deviation	0.1%
<b>Cryptsetup - S.X.5.D (MiB/s)</b>	712.3	
	Standard Deviation	0.2%
<b>Cryptsetup - T.X.5.E (MiB/s)</b>	424.4	
	Standard Deviation	0.1%
<b>Cryptsetup - T.X.5.D (MiB/s)</b>	422.7	
	Standard Deviation	0.1%
<b>SQLite Speedtest - Timed Time - Size 1,000 (sec)</b>	66.538	
	Standard Deviation	0%
<b>PyBench - T.F.A.T.T (Milliseconds)</b>	963	
	Standard Deviation	0.5%
<b>PyPerformance - go (Milliseconds)</b>	231	
	Standard Deviation	0.3%
<b>PyPerformance - 2to3 (Milliseconds)</b>	317	
	Standard Deviation	0%
<b>PyPerformance - chaos (Milliseconds)</b>	109	
	Standard Deviation	0.5%
<b>PyPerformance - float (Milliseconds)</b>	113	
	Standard Deviation	0%
<b>PyPerformance - nbody (Milliseconds)</b>	120	
	Standard Deviation	0%
<b>PyPerformance - pathlib (Milliseconds)</b>	16.0	
	Standard Deviation	0.4%
<b>PyPerformance - raytrace (Milliseconds)</b>	453	
	Standard Deviation	0.7%
<b>PyPerformance - json_loads (Milliseconds)</b>	23.7	
	Standard Deviation	0%
<b>PyPerformance - crypto_pyaes (Milliseconds)</b>	103	
	Standard Deviation	0.6%
<b>PyPerformance - regex_compile (Milliseconds)</b>	161	
	Standard Deviation	0.4%
<b>PyPerformance - python_startup (Milliseconds)</b>	10.2	
	Standard Deviation	1.1%
<b>PyPerformance - django_template (Milliseconds)</b>	44.1	
	Standard Deviation	0%
<b>PyPerformance - pickle_pure_python (Milliseconds)</b>	412	
	Standard Deviation	0.1%
<b>Git - T.T.C.C.G.C (sec)</b>	50.774	
	Standard Deviation	0.4%

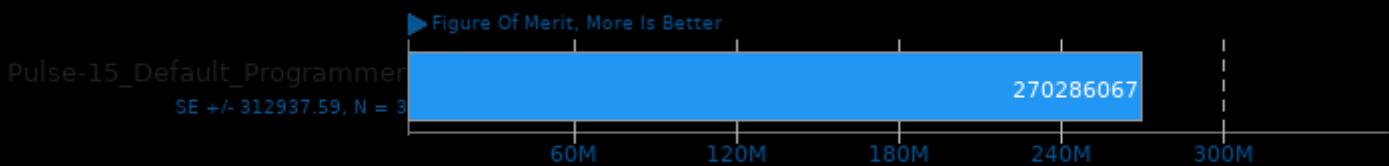
## C-Blosc 2.0 Beta 5

Compressor: blosclz



1. (CXX) g++ options: -rdynamic

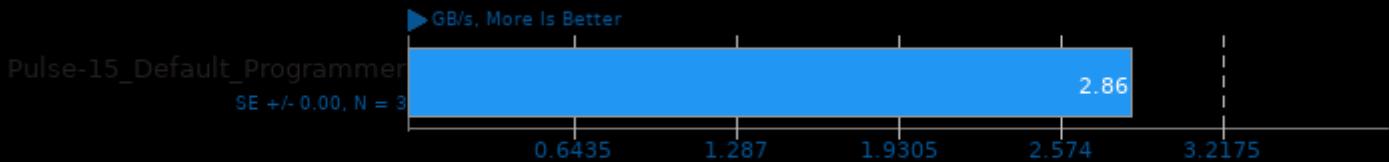
## Algebraic Multi-Grid Benchmark 1.2



1. (CC) gcc options: -lparcsr\_ls -lparcsr\_mv -lseq\_mv -lj\_mv -lkrylov -lHYPRE\_utilities -lm -fopenmp -pthread -lmpi

## simdjson 0.8.2

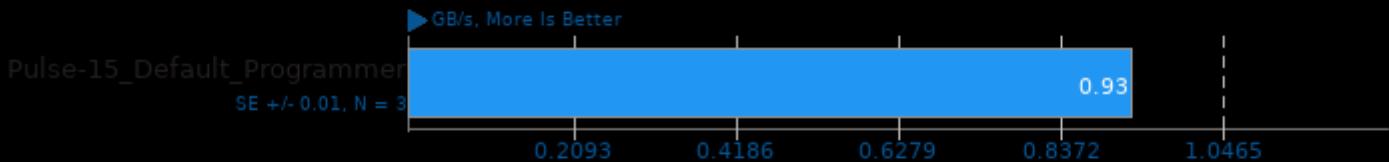
Throughput Test: Kostya



1. (CXX) g++ options: -O3 -pthread

## simdjson 0.8.2

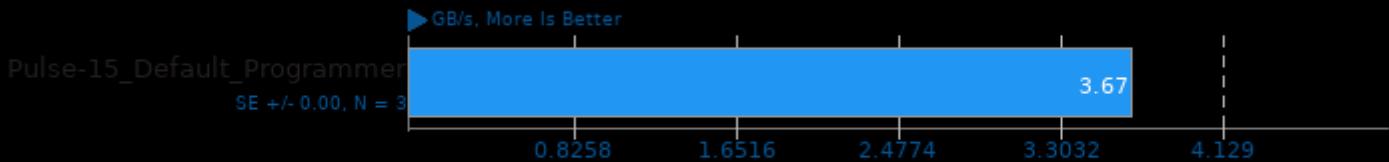
Throughput Test: LargeRandom



1. (CXX) g++ options: -O3 -pthread

## simdjson 0.8.2

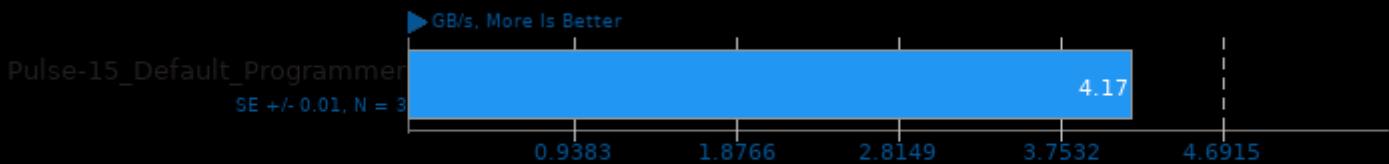
Throughput Test: PartialTweets



1. (CXX) g++ options: -O3 -pthread

## simdjson 0.8.2

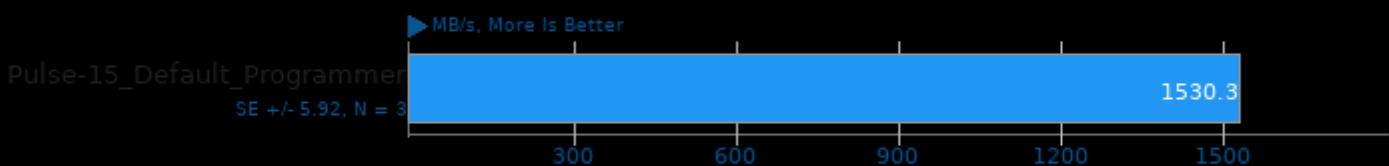
Throughput Test: DistinctUserID



1. (CXX) g++ options: -O3 -pthread

## Zstd Compression 1.4.9

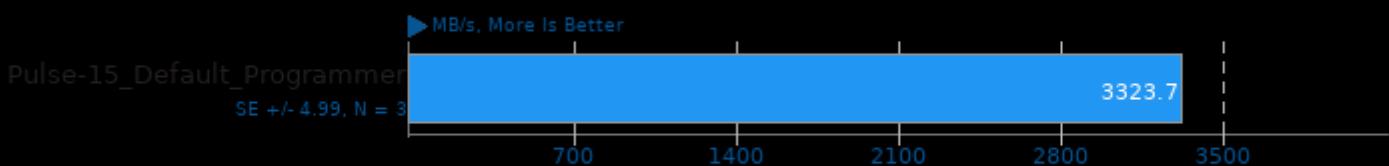
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lizma -llz4

## Zstd Compression 1.4.9

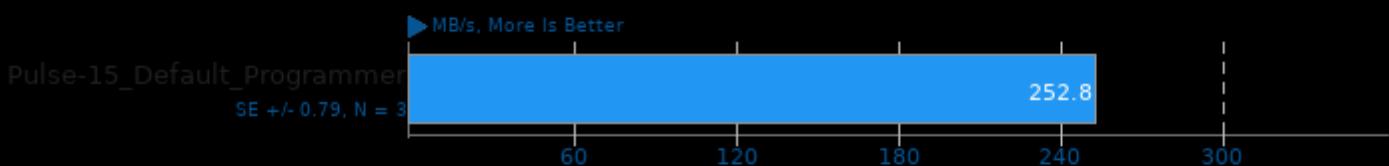
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lizma -llz4

## Zstd Compression 1.4.9

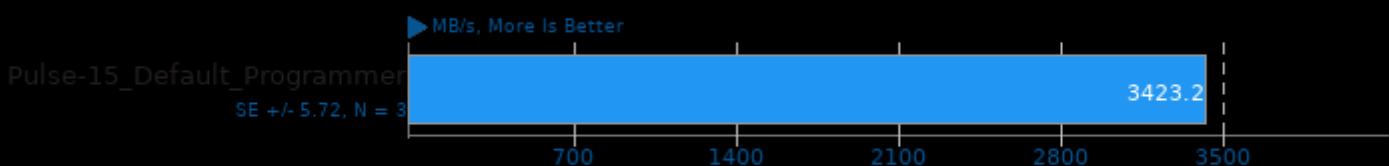
Compression Level: 8 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lizma -llz4

## Zstd Compression 1.4.9

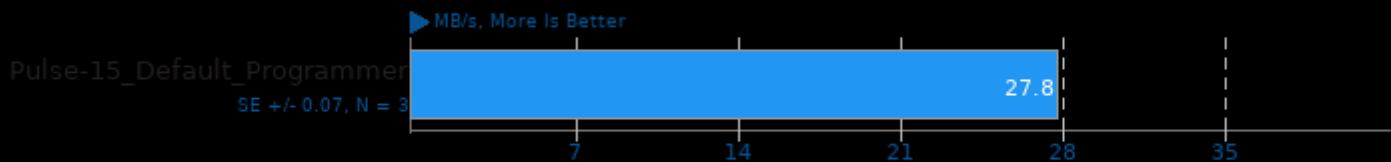
Compression Level: 8 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lizma -llz4

## Zstd Compression 1.4.9

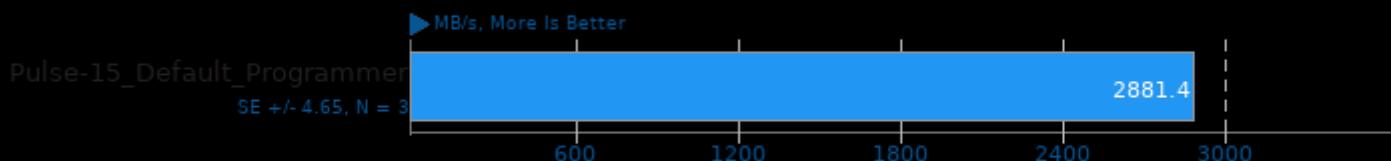
Compression Level: 19 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

## Zstd Compression 1.4.9

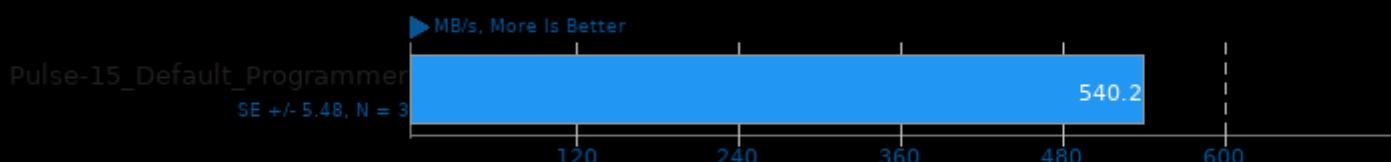
Compression Level: 19 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

## Zstd Compression 1.4.9

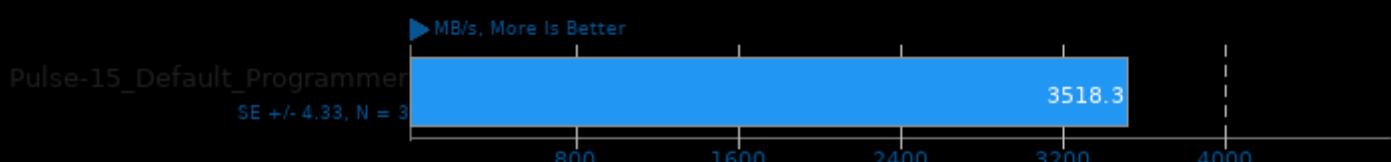
Compression Level: 3, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

## Zstd Compression 1.4.9

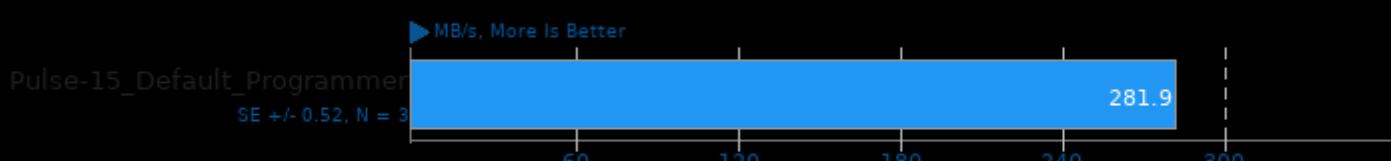
Compression Level: 3, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

## Zstd Compression 1.4.9

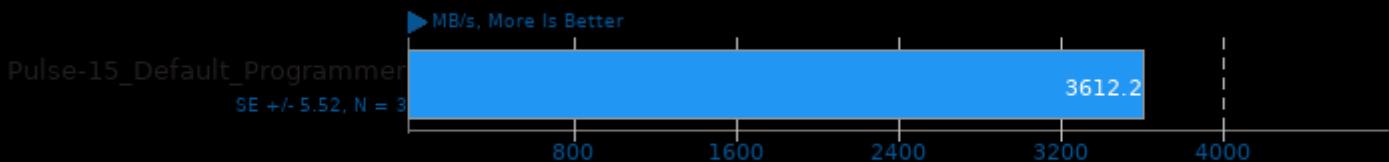
Compression Level: 8, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

## Zstd Compression 1.4.9

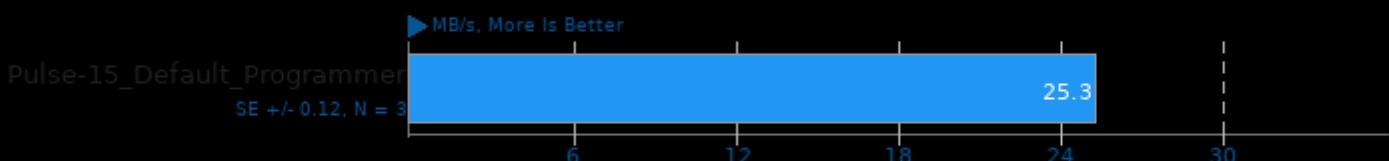
Compression Level: 8, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

## Zstd Compression 1.4.9

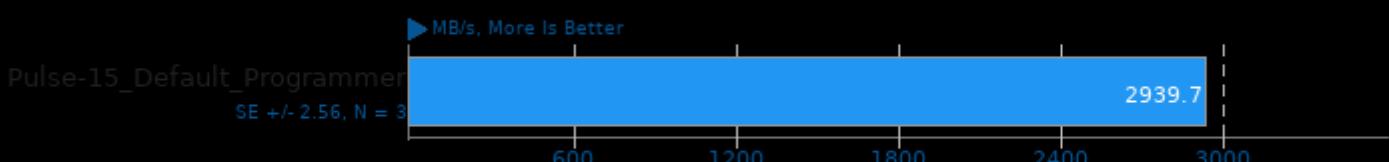
Compression Level: 19, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

## Zstd Compression 1.4.9

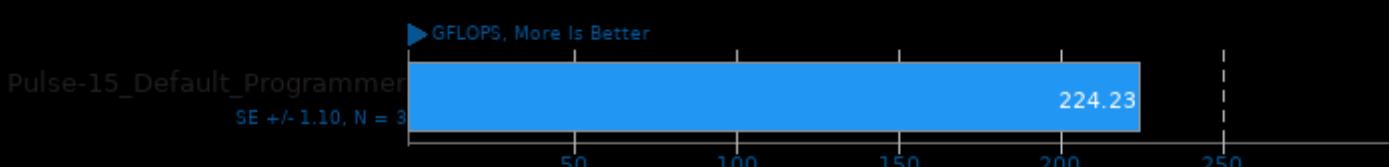
Compression Level: 19, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

## ArrayFire 3.7

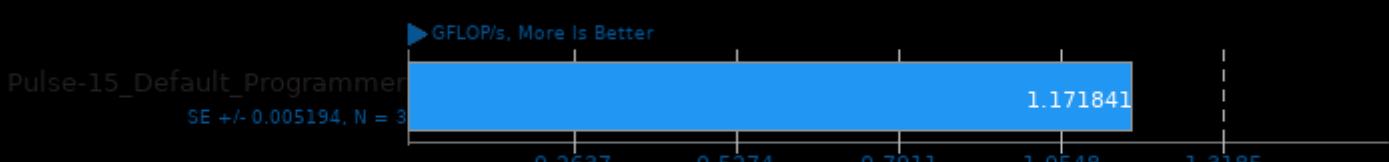
Test: BLAS CPU



1. (CXX) g++ options: -rdynamic

## ACES DGEMM 1.0

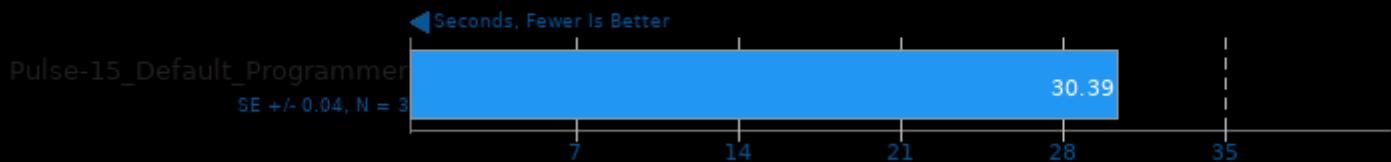
Sustained Floating-Point Rate



1. (CC) gcc options: -O3 -march=native -fopenmp

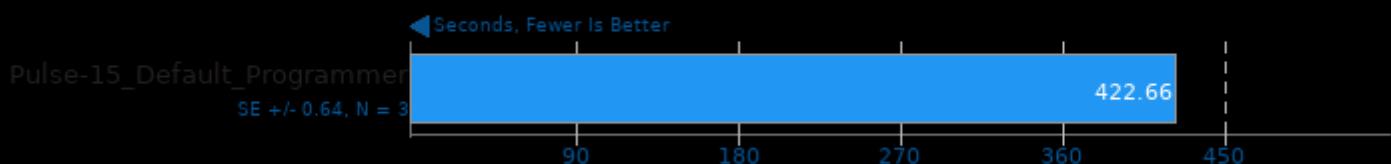
## Timed Apache Compilation 2.4.41

Time To Compile



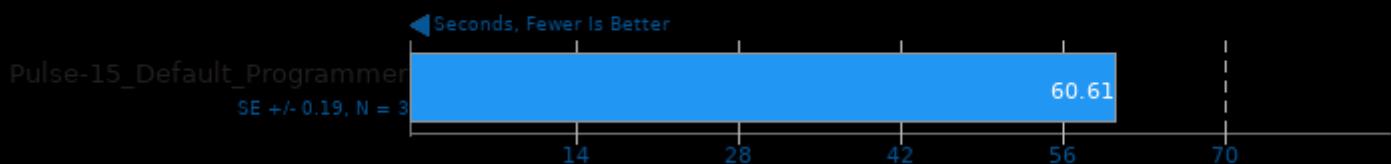
## Timed Clash Compilation

Time To Compile



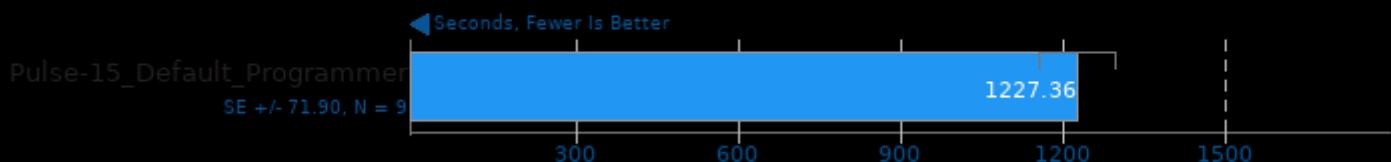
## Timed FFmpeg Compilation 4.2.2

Time To Compile



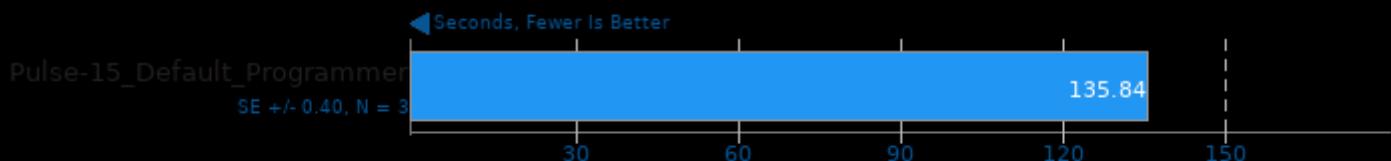
## Timed GCC Compilation 9.3.0

Time To Compile



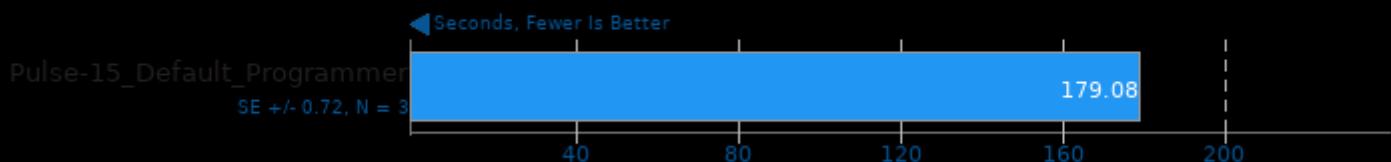
## Timed GDB GNU Debugger Compilation 9.1

Time To Compile



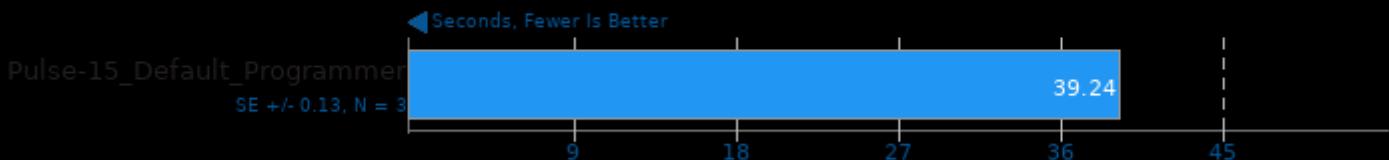
## Timed Godot Game Engine Compilation 3.2.3

Time To Compile



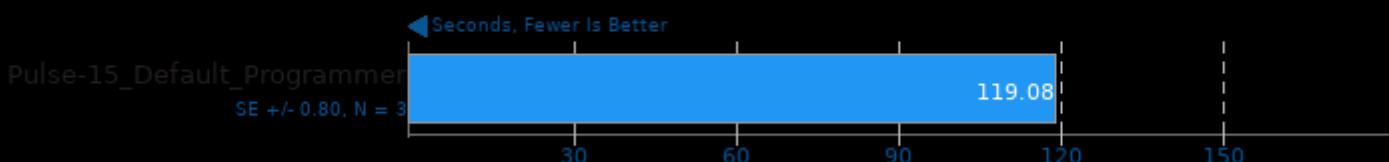
## Timed ImageMagick Compilation 6.9.0

Time To Compile



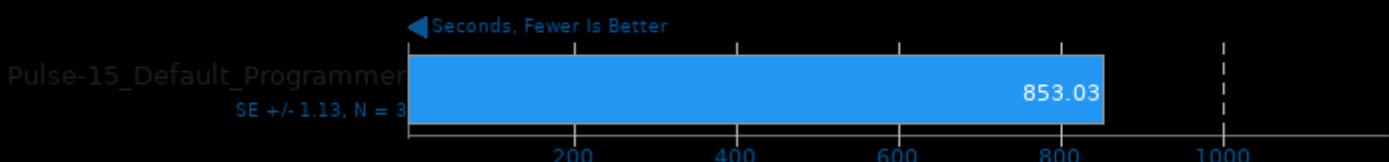
## Timed Linux Kernel Compilation 5.10.20

Time To Compile



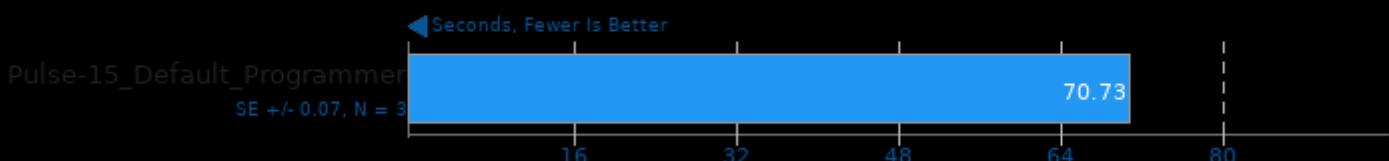
## Timed LLVM Compilation 10.0

Time To Compile



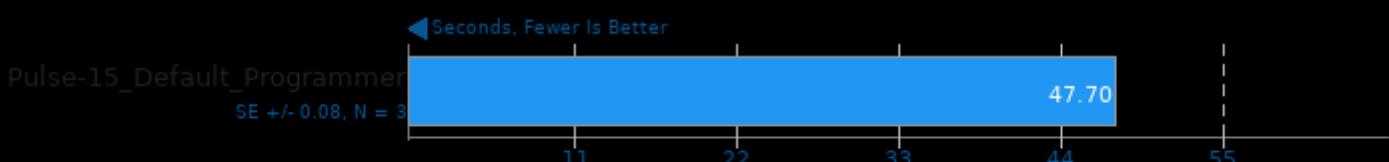
## Timed Mesa Compilation 21.0

Time To Compile



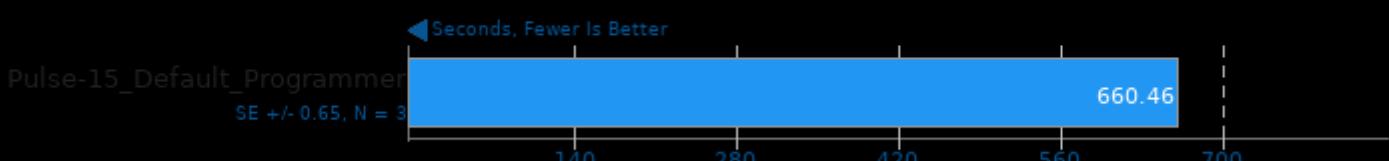
## Timed MPlayer Compilation 1.4

Time To Compile



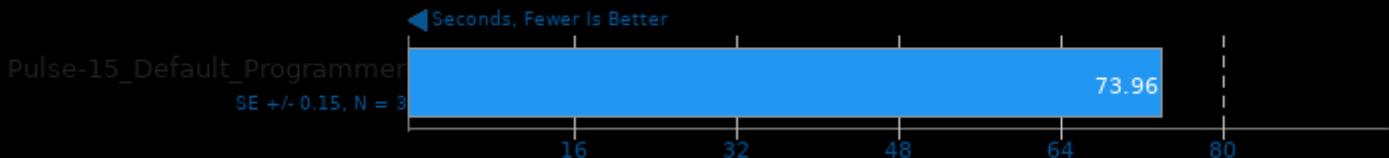
## Timed Node.js Compilation 15.11

Time To Compile



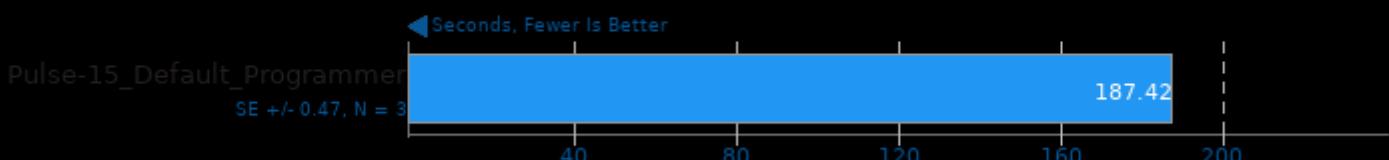
## Timed PHP Compilation 7.4.2

Time To Compile



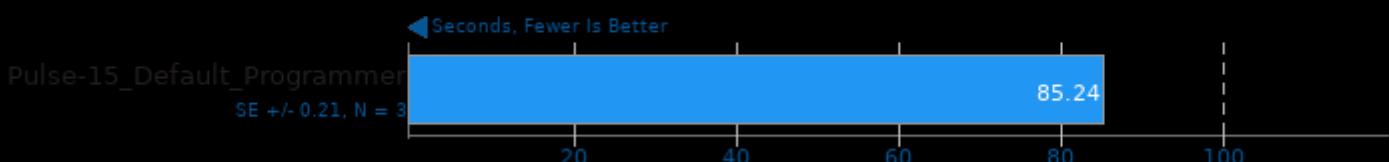
## Build2 0.13

Time To Compile



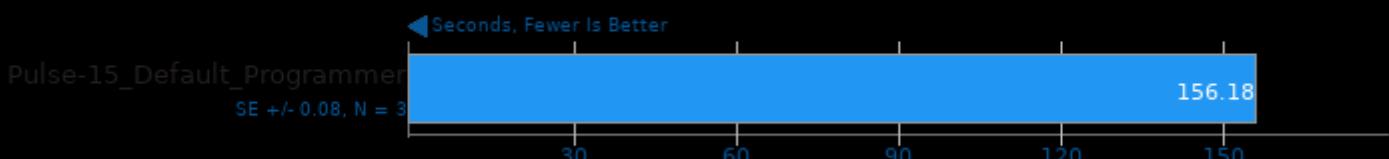
## Timed Eigen Compilation 3.3.9

Time To Compile



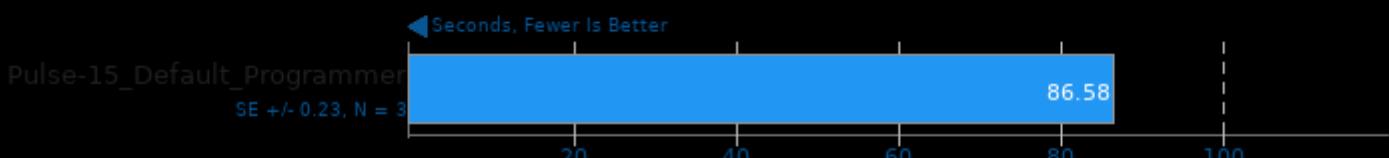
## Timed Erlang/OTP Compilation 23.2

Time To Compile



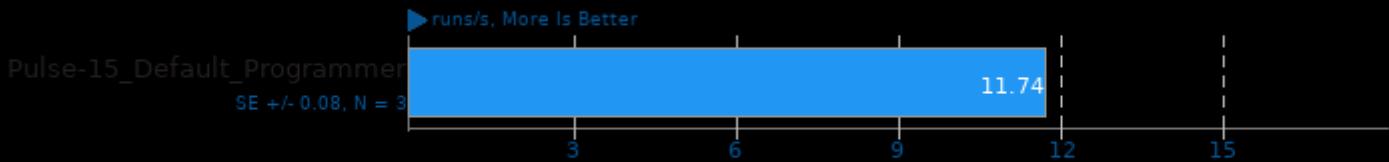
## Timed Wasmer Compilation 1.0.2

Time To Compile



1. (CC) gcc options: -m64 -pie -nodefaultlibs -ldl -lgcc\_s -util -lrt -lpthread -lm -lc

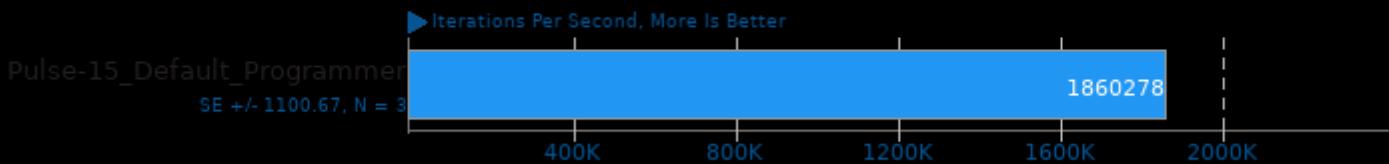
## Node.js V8 Web Tooling Benchmark



1. Nodejs  
v15.14.0

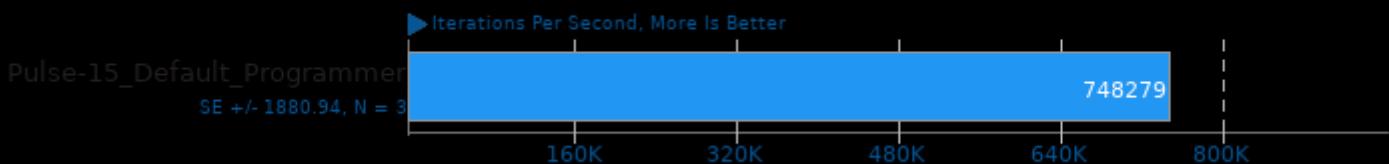
## Cryptsetup

PBKDF2-sha512



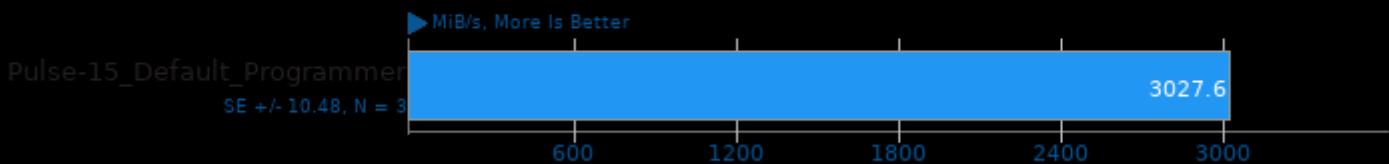
## Cryptsetup

PBKDF2-whirlpool



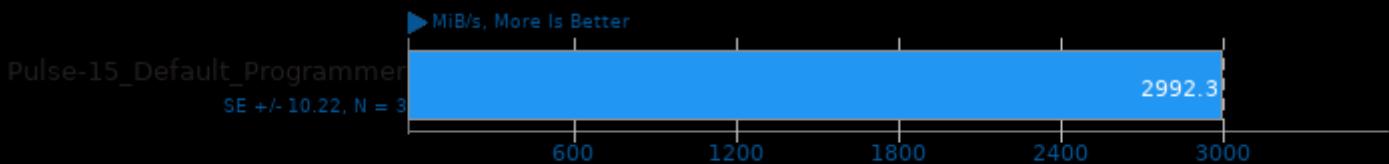
## Cryptsetup

AES-XTS 256b Encryption



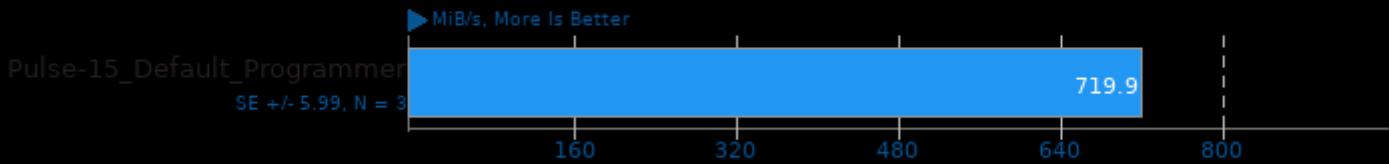
## Cryptsetup

AES-XTS 256b Decryption



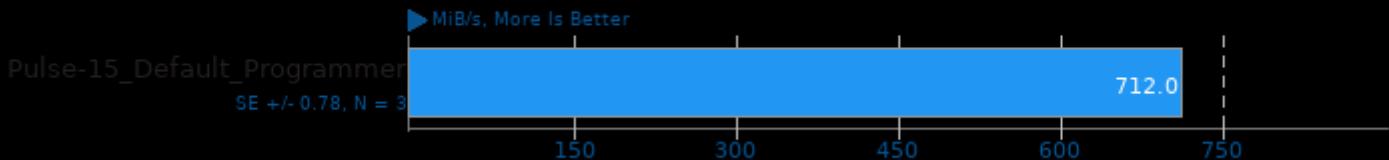
## Cryptsetup

Serpent-XTS 256b Encryption



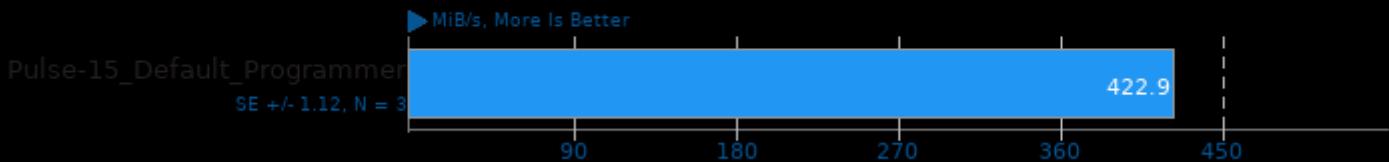
## Cryptsetup

Serpent-XTS 256b Decryption



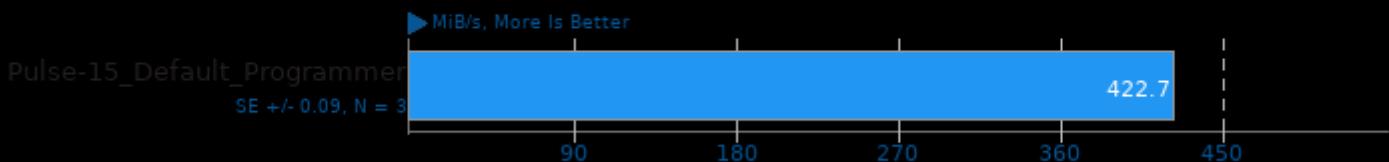
## Cryptsetup

Twofish-XTS 256b Encryption



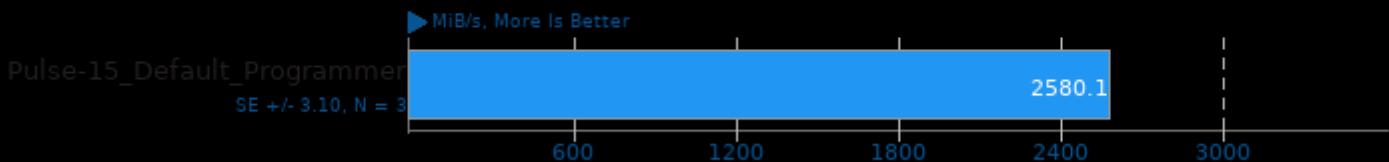
## Cryptsetup

Twofish-XTS 256b Decryption



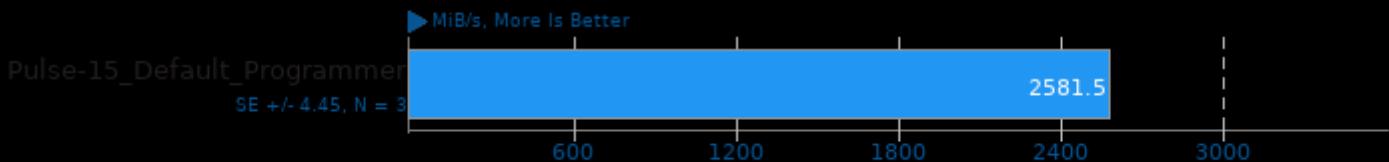
## Cryptsetup

AES-XTS 512b Encryption



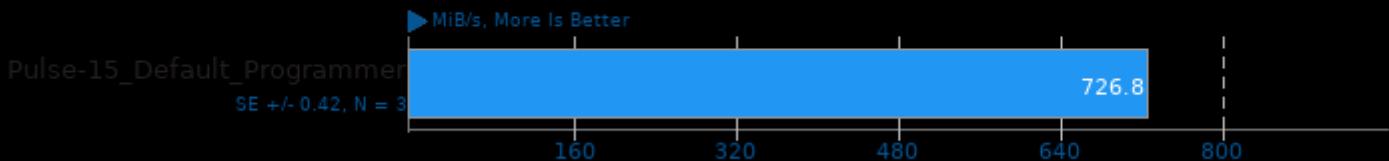
## Cryptsetup

AES-XTS 512b Decryption



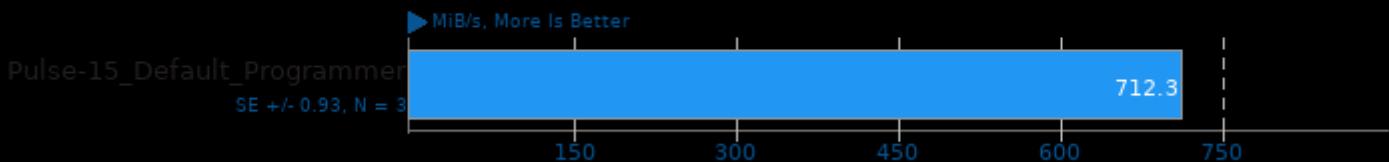
## Cryptsetup

Serpent-XTS 512b Encryption



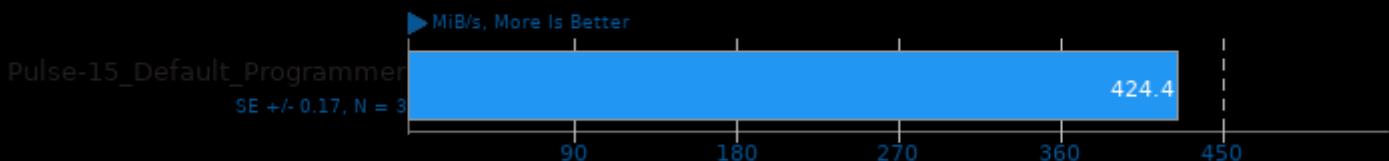
## Cryptsetup

Serpent-XTS 512b Decryption



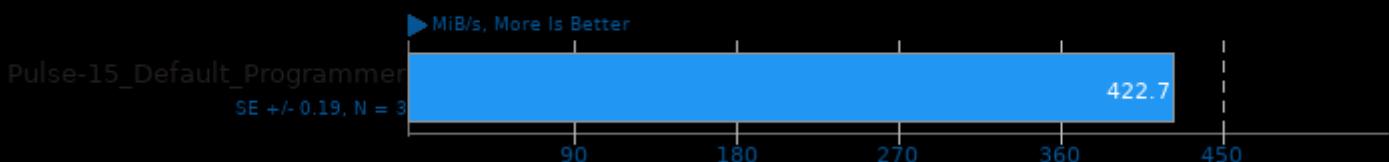
## Cryptsetup

Twofish-XTS 512b Encryption



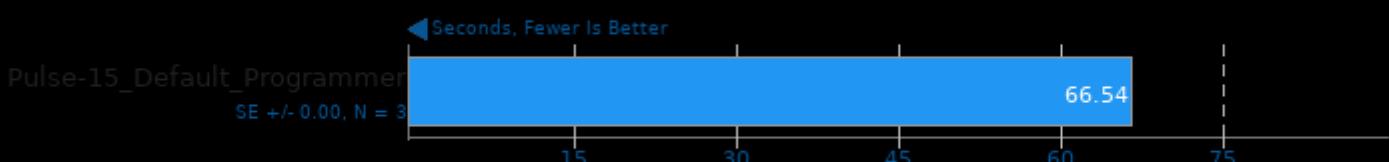
## Cryptsetup

Twofish-XTS 512b Decryption



## SQLite Speedtest 3.30

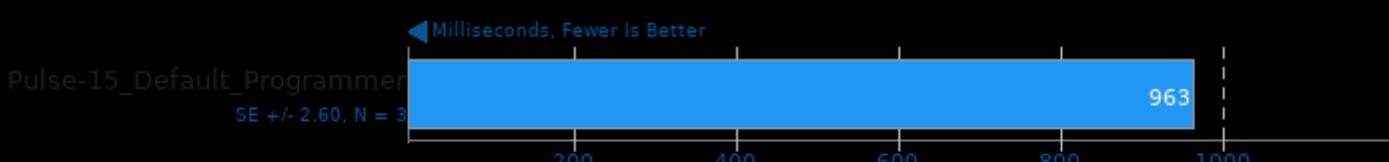
Timed Time - Size 1,000



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

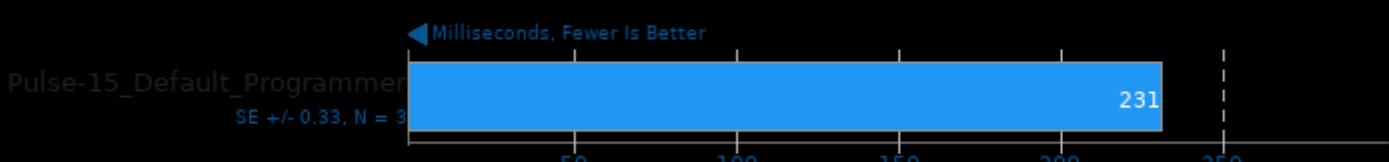
## PyBench 2018-02-16

Total For Average Test Times



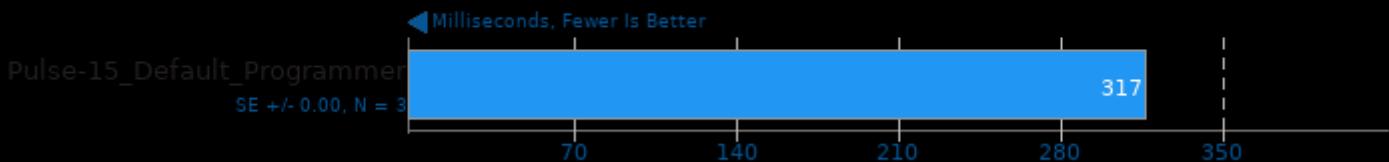
## PyPerformance 1.0.0

Benchmark: go



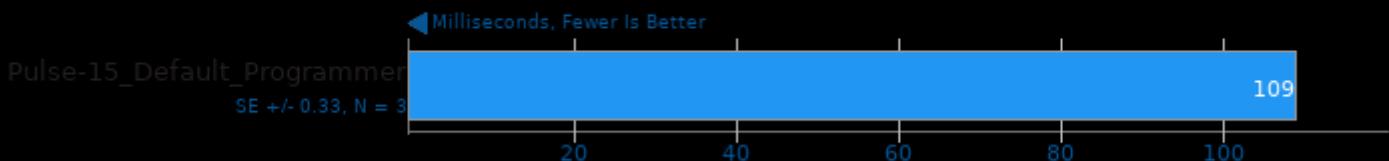
## PyPerformance 1.0.0

Benchmark: 2to3



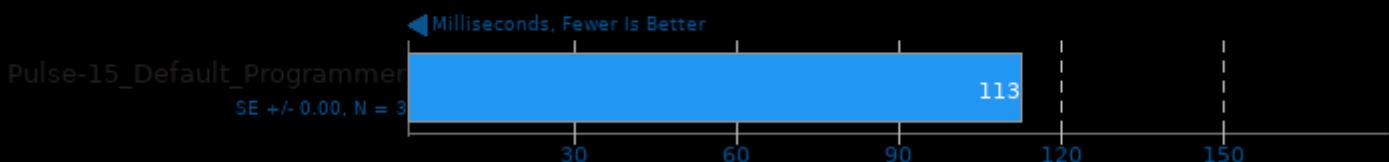
## PyPerformance 1.0.0

Benchmark: chaos



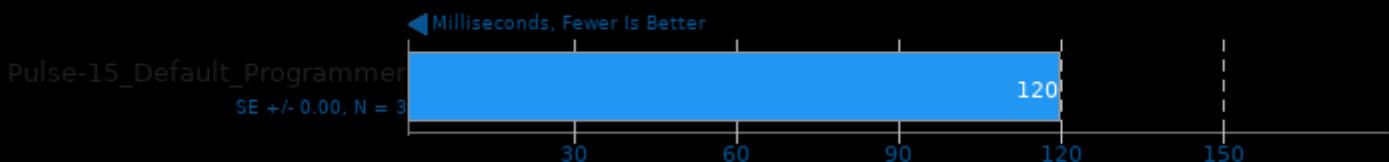
## PyPerformance 1.0.0

Benchmark: float



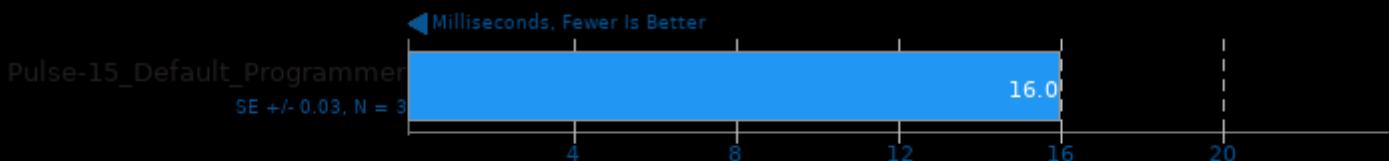
## PyPerformance 1.0.0

Benchmark: nbody



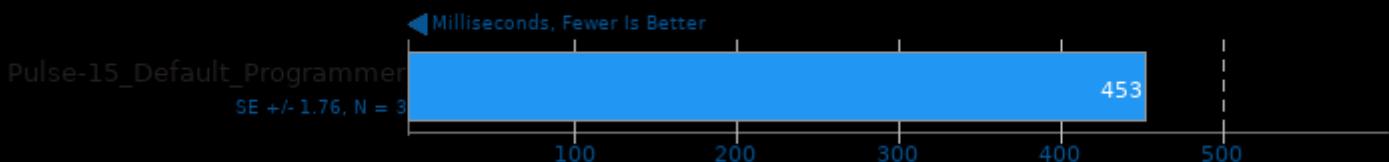
## PyPerformance 1.0.0

Benchmark: pathlib



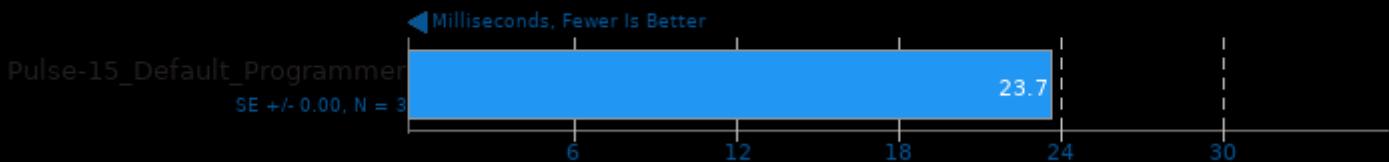
## PyPerformance 1.0.0

Benchmark: raytrace



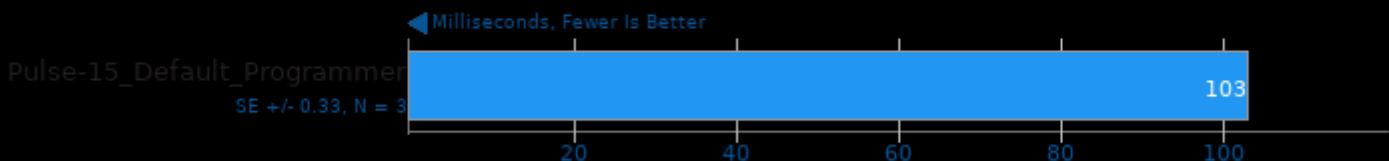
## PyPerformance 1.0.0

Benchmark: json\_loads



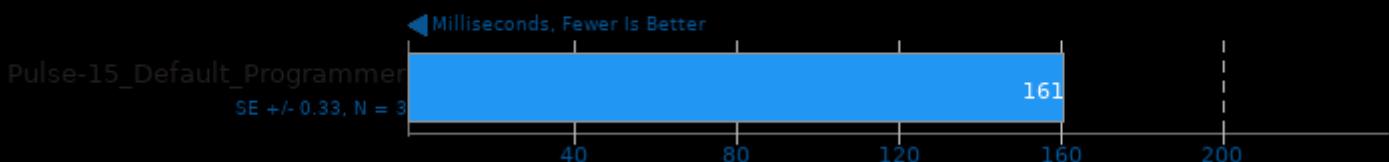
## PyPerformance 1.0.0

Benchmark: crypto\_pyaes



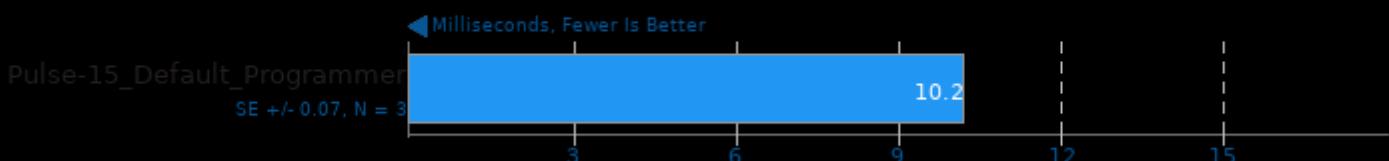
## PyPerformance 1.0.0

Benchmark: regex\_compile



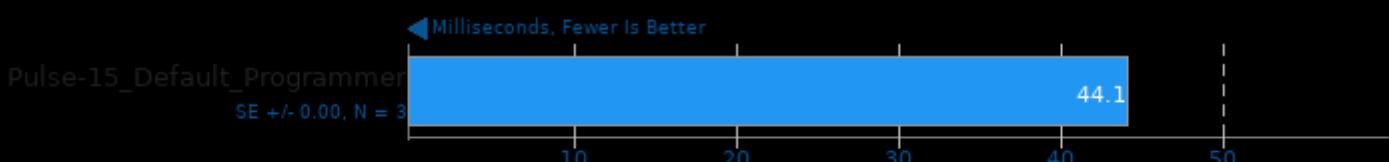
## PyPerformance 1.0.0

Benchmark: python\_startup



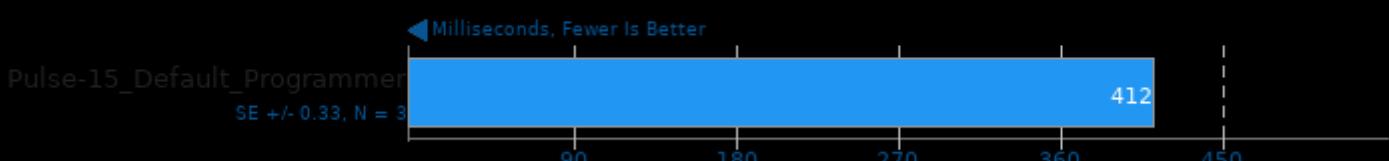
## PyPerformance 1.0.0

Benchmark: django\_template

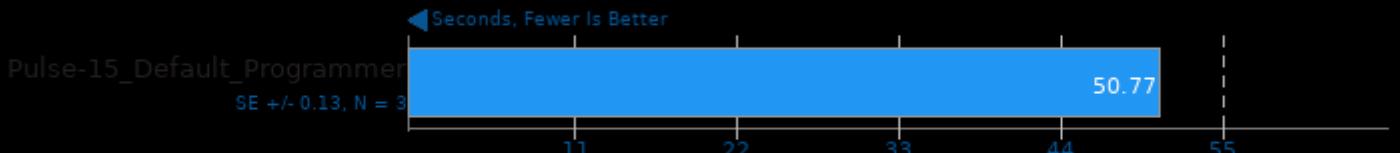


## PyPerformance 1.0.0

Benchmark: pickle\_pure\_python



Git



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 04:11.