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/home/smacz/phoronix_results

Intel Core i7-3540M testing with a LENOVO 2349SUA (G1ETB9WW 2.79 BIOS) and Intel Ivybridge Mobile 2GB on ManjaroLinux 18.1.0 via the Phoronix Test Suite.

Test Systems:

unboxed

Processor: Intel Core i7-3540M @ 3.70GHz (2 Cores / 4 Threads), Motherboard: LENOVO 2349SUA (G1ETB9WW 2.79 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 16384MB, Disk: 128GB Samsung SSD 850 + 1000GB FA GoFlex Desk, Graphics: Intel Ivybridge Mobile 2GB (1300MHz), Audio: Realtek ALC3202, Monitor: DELL 2407WFP + DELL 2209WA, Network: Intel 82579LM + Intel Centrino Advanced-N 6205

OS: ManjaroLinux 18.1.0, Kernel: 4.19.78-1-MANJARO (x86_64), Desktop: Cinnamon 4.2.4, Display Server: X Server 1.20.5, Display Driver: intel 2.99.917, OpenGL: 4.2 Mesa 19.2.1, Compiler: GCC 9.2.0, File-System: ext4 (ecryptfs), Screen Resolution: 4890x1680

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-libiberty

--enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++ --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Disk Notes: MQ-DEADLINE / ecryptfs_cipher=aes,ecryptfs_fnek_sig=588fae3b679e6a50,ecryptfs_key_bytes=16,ecryptfs_sig=616e6c7e65a6e916,ecryptfs_unlink_sigs,nodev,nosuid,relatime,rw

Processor Notes: Scaling Governor: intel_pstate powersave

Java Notes: OpenJDK Runtime Environment (build 1.8.0_222-b05)

Python Notes: Python 3.7.4

Security Notes: l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling

	unboxed
SQLite - T.S.I (sec)	112.53
Standard Deviation	0.1%
Dbench - 12 Clients (MB/s)	274.14
Standard Deviation	0.5%
Threaded I/O Tester - 64MB Read - 32 Threads (MB/s)	7628
Standard Deviation	3.9%
Threaded I/O Tester - 64MB Write - 32 Threads (MB/s)	7.48
Standard Deviation	2.2%
PostMark - D.T.P (TPS)	1288
Timed HMMer Search - P.D.S (sec)	19.57
Standard Deviation	0.6%
Timed MAFFT Alignment - M.S.A (sec)	8.66
Standard Deviation	3.7%
GNU GMP GMPbench - Total Time (GMPbench Score)	3872
Crafty - Elapsed Time (Nodes/s)	6102310
Standard Deviation	0.1%
GraphicsMagick - HWB Color Space (Iterations/min)	226
Standard Deviation	0.3%
GraphicsMagick - L.A.T (Iterations/min)	59
C-Ray - Total Time - 4.1.R.P.P (sec)	520.12
Standard Deviation	0%
Parallel BZIP2 Compression - 2.F.C (sec)	19.84
Standard Deviation	0.3%
POV-Ray - Trace Time (sec)	329.42
Standard Deviation	0.5%
LZMA Compression - 2.F.C (sec)	336.34
Standard Deviation	0.4%
dcraw - R.T.P.I.C (sec)	57.35
Standard Deviation	0.1%
LAME MP3 Encoding - WAV To MP3 (sec)	10.94
Standard Deviation	0.3%
FFmpeg - H.2.H.T.N.D (sec)	12.64
Standard Deviation	1.2%
GnuPG - 2.F.E (sec)	16.11
Standard Deviation	0.4%
Minion - Solitaire (sec)	85.78
Standard Deviation	1.2%
Sudokut - Total Time (sec)	16.41
Standard Deviation	0.8%
Tachyon - Total Time (sec)	24.87

/home/smacz/phoronix_results

Standard Deviation	0.4%
OpenSSL - R.4.b.P (Signs/sec)	290.10
Standard Deviation	0.6%
PyBench - T.F.A.T.T (Milliseconds)	1678
Standard Deviation	0.2%
Apache Benchmark - S.W.P.S (Reqs/sec)	14051
Standard Deviation	0.4%
Sunflow Rendering System - G.I.I.S (sec)	5.36
Standard Deviation	0.5%

SQLite 3.22

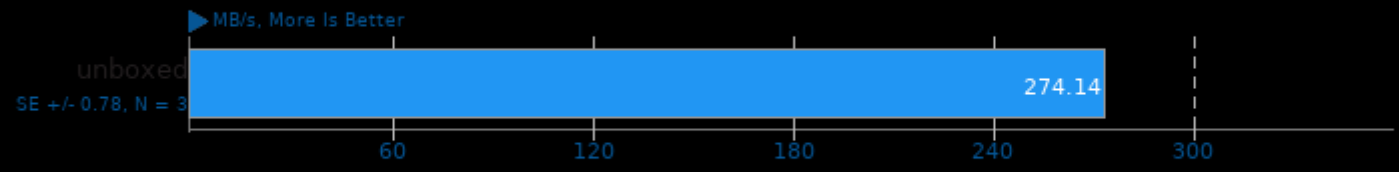
Timed SQLite Insertions



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

Dbench 4.0

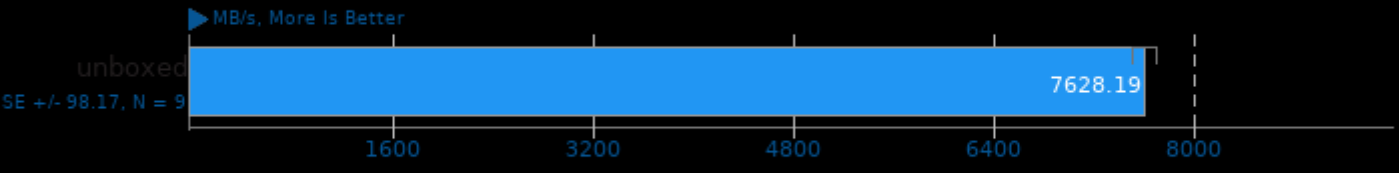
12 Clients



1. (CC) gcc options: -lpopt -O2

Threaded I/O Tester 20170503

64MB Read - 32 Threads



1. (CC) gcc options: -O2

Threaded I/O Tester 20170503

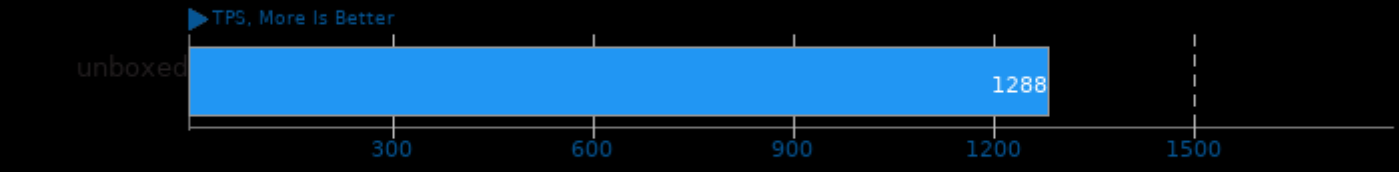
64MB Write - 32 Threads



1. (CC) gcc options: -O2

PostMark 1.51

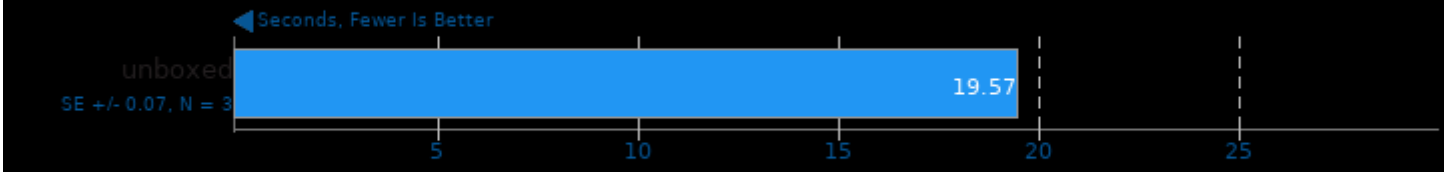
Disk Transaction Performance



1. (CC) gcc options: -O3

Timed HMMer Search 2.3.2

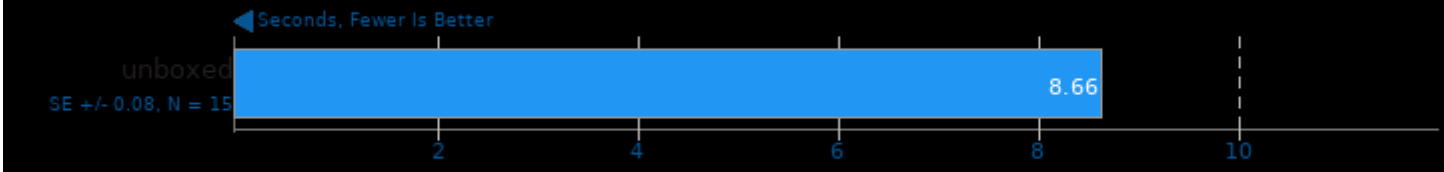
Pfam Database Search



1. (CC) gcc options: -O2 -pthread -lhmmer -lsquid -lm

Timed MAFFT Alignment 7.392

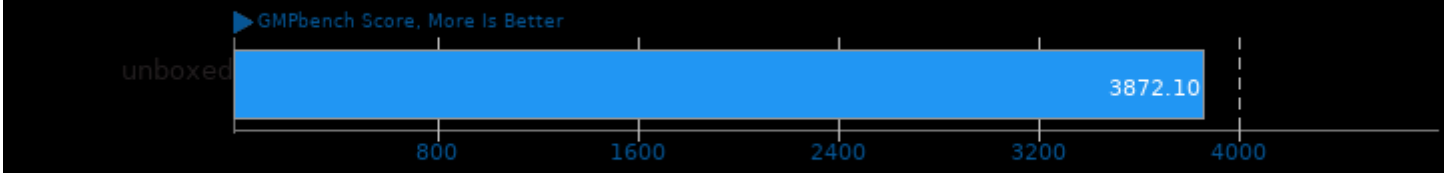
Multiple Sequence Alignment



1. (CC) gcc options: -std=c99 -O3 -lm -lpthread

GNU GMP GMPbench 6.1.2

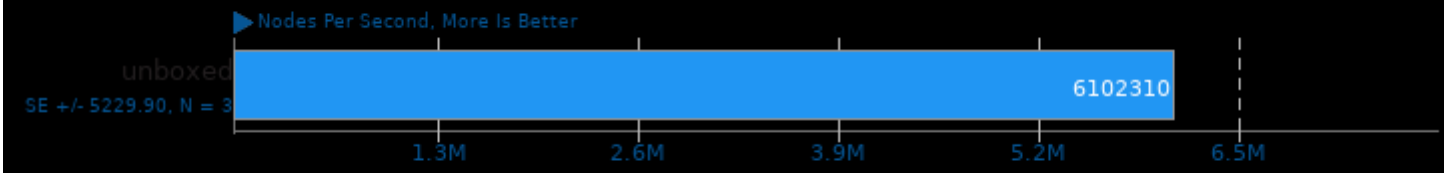
Total Time



1. (CC) gcc options: -O3 -fomit-frame-pointer -lm

Crafty 25.2

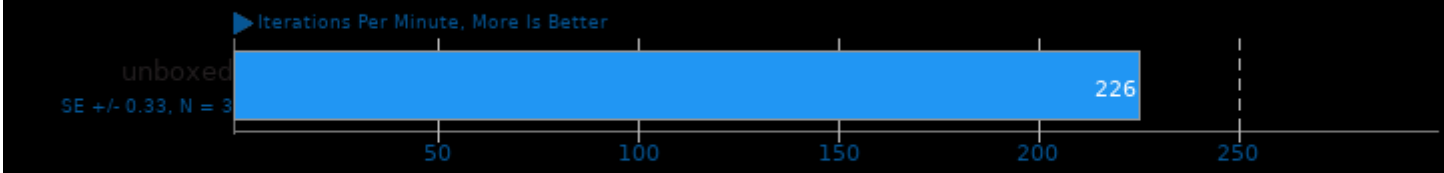
Elapsed Time



1. (CC) gcc options: -pthread -lstdc++ -fprofile-use -lm

GraphicsMagick 1.3.33

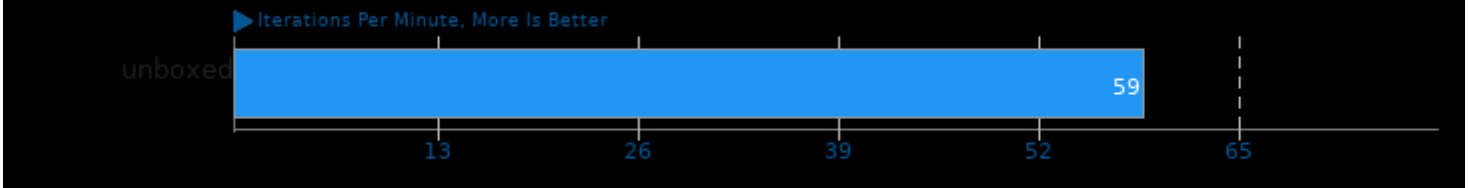
HWB Color Space



1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -llcms2 -ltiff -lfreetype -ljasper -ljpeg -lwmflite -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz

GraphicsMagick 1.3.33

Local Adaptive Thresholding



1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -llcms2 -ltiff -lfreetype -ljasper -ljpeg -lwmflite -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz

C-Ray 1.1

Total Time - 4K, 16 Rays Per Pixel



1. (CC) gcc options: -lm -lpthread -O3

Parallel BZIP2 Compression 1.1.12

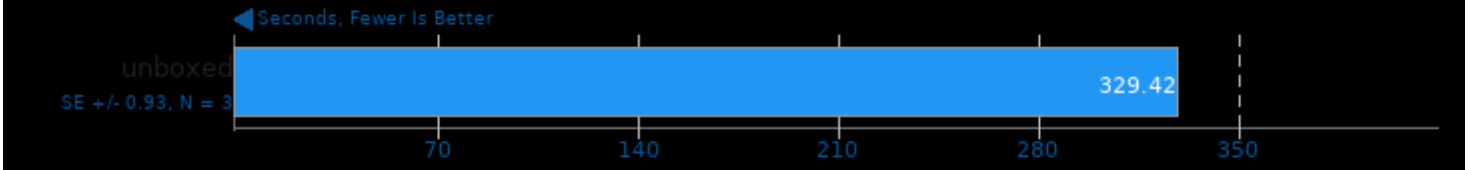
256MB File Compression



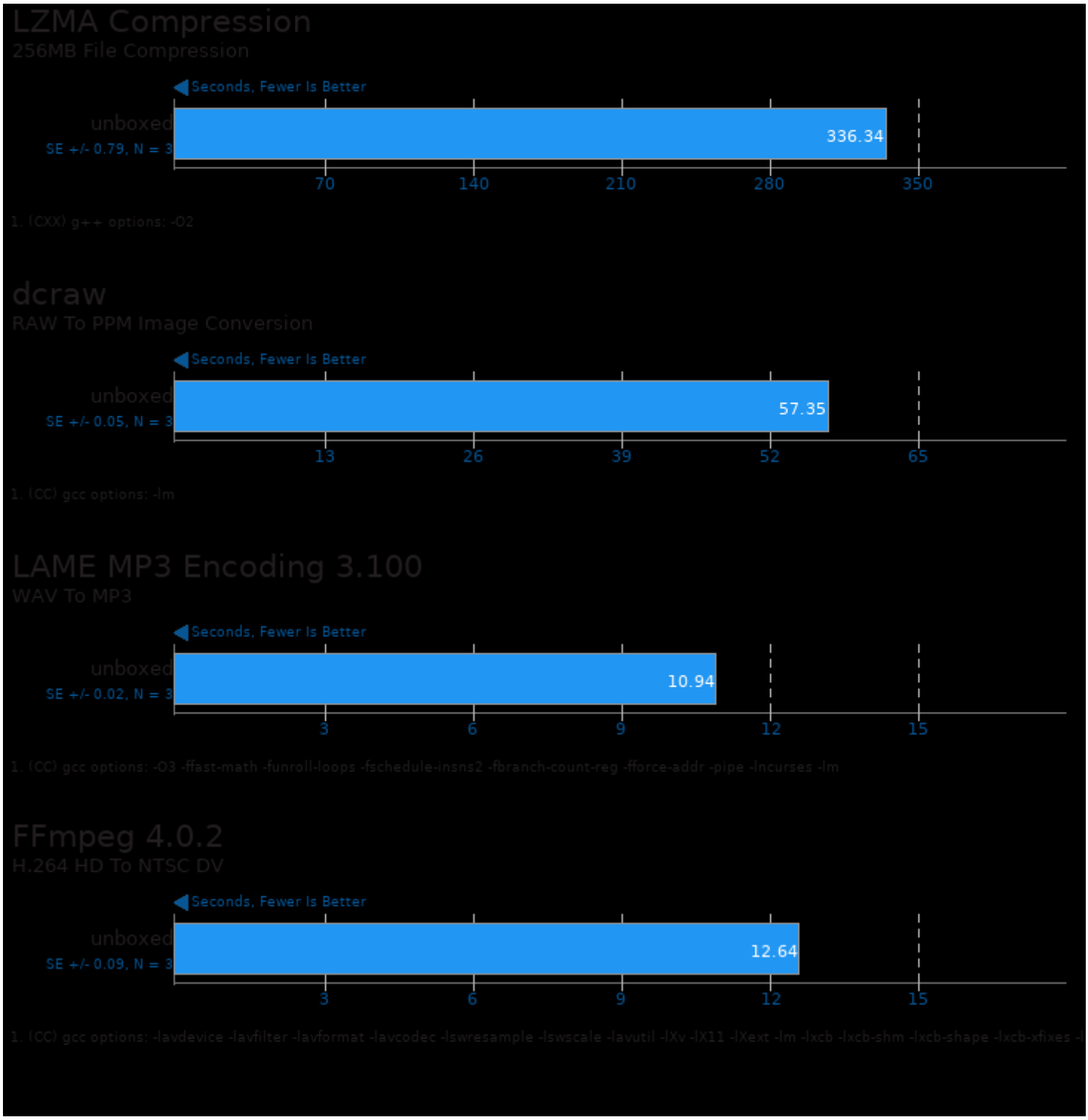
1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread

POV-Ray 3.7.0.7

Trace Time



1. (CXX) g++ options: -pipe -O3 -ffast-math -march=native -pthread -lSDL -lpthread -lXpm -lSM -lICE -lX11 -lIlmImf -lImath -lHalf -lIex -lIexMath -lIlmThre


LZMA Compression
256MB File Compression
Seconds, Fewer Is Better
unboxed
SE +/- 0.79, N = 3
336.34
70
140
210
280
350
1. (CXX) g++ options: -O2
dcraw
RAW To PPM Image Conversion
Seconds, Fewer Is Better
unboxed
SE +/- 0.05, N = 3
57.35
13
26
39
52
65
1. (CC) gcc options: -lm
LAME MP3 Encoding 3.100
WAV To MP3
Seconds, Fewer Is Better
unboxed
SE +/- 0.02, N = 3
10.94
3
6
9
12
15
1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lncurses -lm
FFmpeg 4.0.2
H.264 HD To NTSC DV
Seconds, Fewer Is Better
unboxed
SE +/- 0.09, N = 3
12.64
3
6
9
12
15
1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lXv -lX11 -lXext -lm -lxcb -lxcb-shm -lxcb-shape -lxcb-xfixes

GnuPG 1.4.22

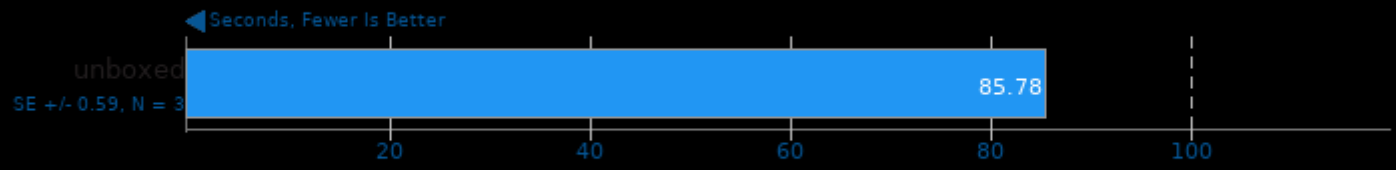
2GB File Encryption



1. (CC) gcc options: -O2 -MT -MD -MP -MF

Minion 1.8

Solitaire



1. (CXX) g++ options: -std=gnu++11 -O3 -fomit-frame-pointer -rdynamic

Sudokut 0.4

Total Time



Tachyon 0.98.9

Total Time



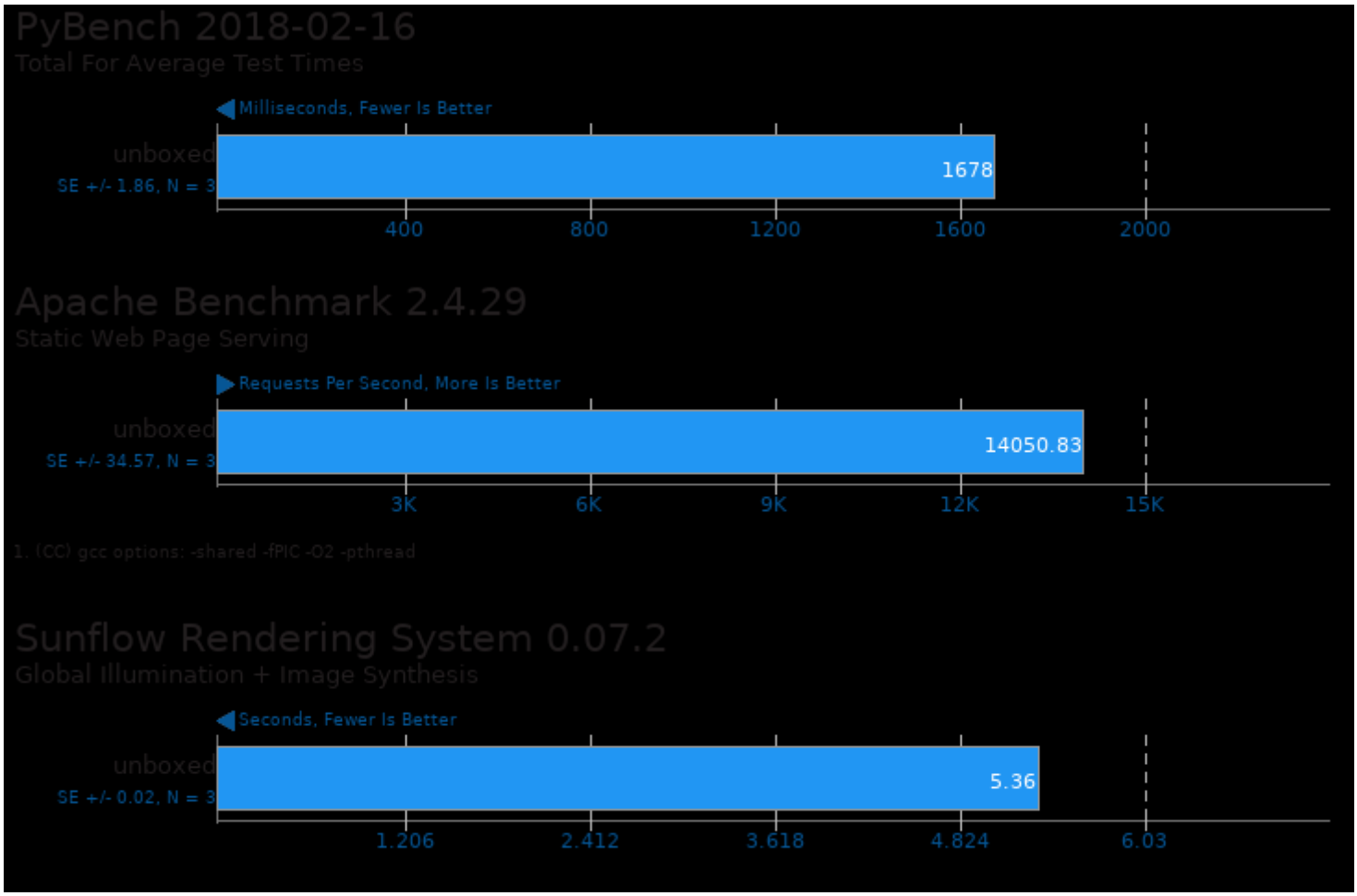
1. (CC) gcc options: -m32 -O3 -fomit-frame-pointer -ffast-math -ltachyon -lm -lpthread

OpenSSL 1.1.1

RSA 4096-bit Performance



1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl



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