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Lenovo X1 Carbon Core i7 5600U

Benchmarks by Michael Larabel of the third-generation Lenovo ThinkPad X1 Carbon ultrabook with Core i7 Broadwell processor.

Test Systems:

Lenovo X1 Carbon 20BSCTO1WW

Processor: Intel Core i7-5600U @ 3.20GHz (4 Cores), Motherboard: LENOVO 20BSCTO1WW, Chipset: Intel Broadwell-U-OPI, Memory: 8192MB, Disk: 128GB SAMSUNG MZNTE128, Graphics: Intel Broadwell-U (950MHz), Audio: Intel Broadwell-U Audio, Network: Intel Connection + Intel Wireless 7265

OS: Ubuntu 15.04, Kernel: 3.18.0-9-generic (x86_64), Desktop: Unity 7.3.1, Display Server: X Server 1.16.2.901 (1.16.3 RC 1), Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 10.3.2, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix

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--host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: SNA
System Notes: Disk Scheduler: DEADLINE.

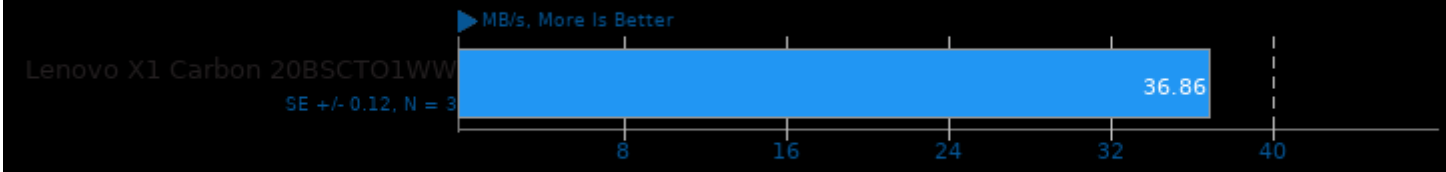
	Lenovo X1 Carbon
Flexible IO Tester - Rand Read - POSIX AIO - No - 4KB - MB/s	36.86
Standard Deviation	0.6%
Flexible IO Tester - Rand Write - POSIX AIO - No - 4KB - MB/s	124.55
Standard Deviation	0.2%
Flexible IO Tester - Seq Read - POSIX AIO - No - 4KB - MB/s (MB/s)	159.99
Standard Deviation	2.6%
Flexible IO Tester - Seq Write - POSIX AIO - No - 4KB - MB/s (MB/s)	132.97
Standard Deviation	0.2%
PostMark - D.T.P (TPS)	5319
Standard Deviation	0%
OpenArena - 1280 x 1024 (FPS)	54.40
Standard Deviation	0.4%
Tesseract - 1280 x 1024 (FPS)	51.32
Standard Deviation	0.1%
Tesseract - 1680 x 1050 (FPS)	41.93
Standard Deviation	0.3%
Unigine Tropics - 1280 x 1024 - Fullscreen (FPS)	35.64
Standard Deviation	0.4%
Xonotic - 1280 x 1024 - High (FPS)	74.70
Standard Deviation	0.1%
Xonotic - 1680 x 1050 - High (FPS)	74.70
Standard Deviation	0.3%
Xonotic - 1280 x 1024 - Ultra (FPS)	55.84
Standard Deviation	0.2%
Xonotic - 1680 x 1050 - Ultra (FPS)	55.93
Standard Deviation	0.2%
Xonotic - 1280 x 1024 - Ultimate (FPS)	39.05
Standard Deviation	0.1%
Xonotic - 1680 x 1050 - Ultimate (FPS)	39.06
Standard Deviation	0%
FFTW - Stock - 1D FFT Size 1024 (Mflops)	5531
Standard Deviation	0.3%
FFTW - Stock - 2D FFT Size 1024 (Mflops)	4193
Standard Deviation	1.3%
John The Ripper - Blowfish (Real C/S)	2399
Standard Deviation	0.3%
x264 - H.2.V.E (FPS)	73.48
Standard Deviation	0.8%
Himeno Benchmark - P.P.S (MFLOPS)	1809
Standard Deviation	0.1%
Timed Linux Kernel Compilation - Time To Compile (sec)	283.71
Standard Deviation	0.8%
C-Ray - Total Time (sec)	63.27

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Standard Deviation	0%
Stockfish - Total Time (ms)	3872
Standard Deviation	0.2%
LAME MP3 Encoding - WAV To MP3 (sec)	12.83
Standard Deviation	0.6%
OpenSSL - R.4.b.P (Signs/sec)	241.97
Standard Deviation	0.2%

Flexible IO Tester 2.1.13

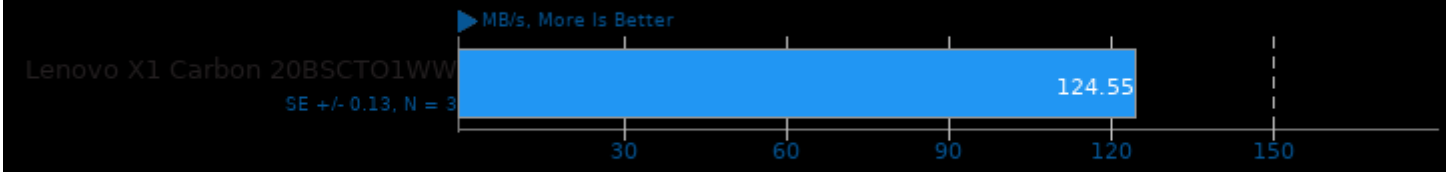
Type: Random Read - IO Engine: POSIX AIO - Buffered: No - Block Size: 4KB - Disk Target: Default Test Directory - Result: MB/s



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

Flexible IO Tester 2.1.13

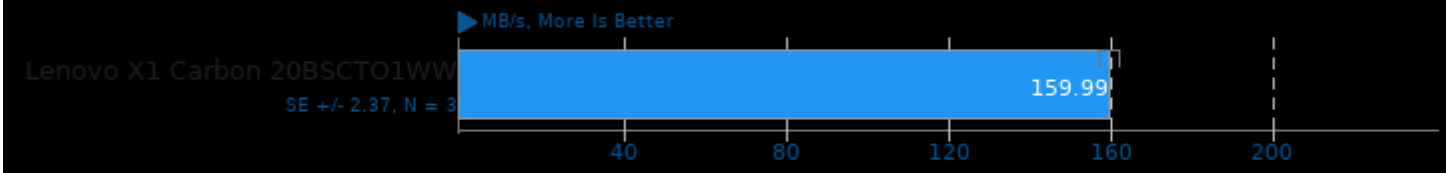
Type: Random Write - IO Engine: POSIX AIO - Buffered: No - Block Size: 4KB - Disk Target: Default Test Directory - Result: MB/s



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

Flexible IO Tester 2.1.13

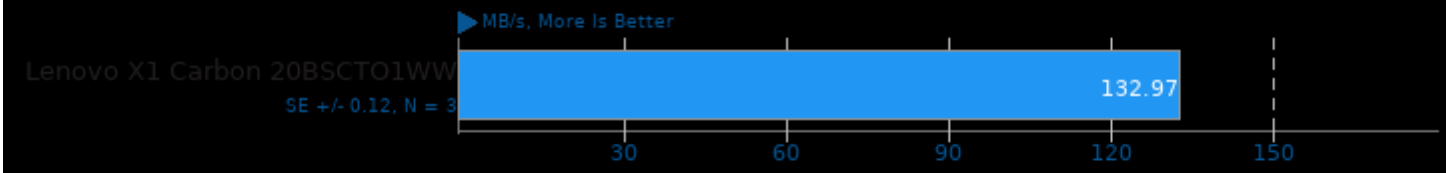
Type: Sequential Read - IO Engine: POSIX AIO - Buffered: No - Block Size: 4KB - Disk Target: Default Test Directory - Result: MB/s



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

Flexible IO Tester 2.1.13

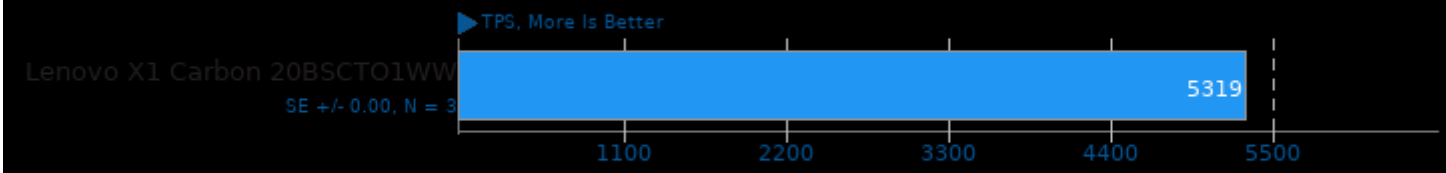
Type: Sequential Write - IO Engine: POSIX AIO - Buffered: No - Block Size: 4KB - Disk Target: Default Test Directory - Result: MB/s



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

PostMark 1.51

Disk Transaction Performance

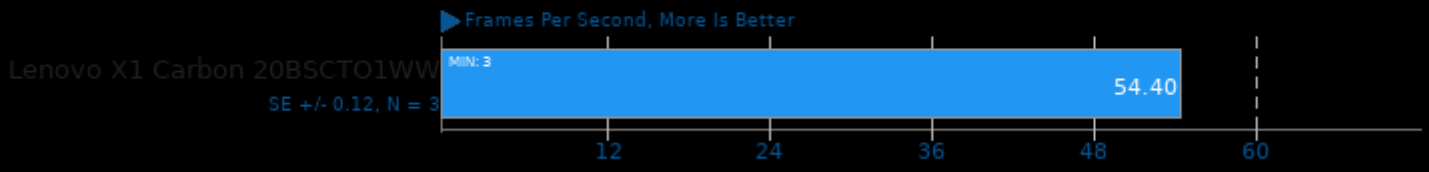


1. (CC) gcc options: -O3

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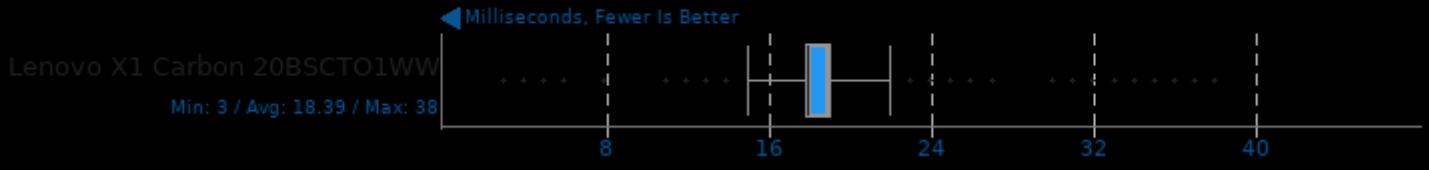
OpenArena 0.8.8

Resolution: 1280 x 1024



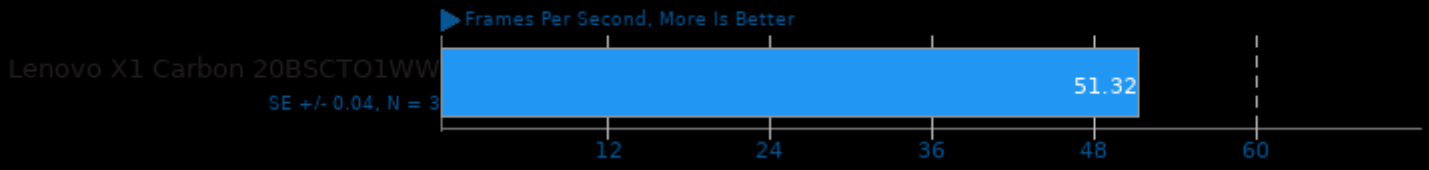
OpenArena 0.8.8

Resolution: 1280 x 1024 - Total Frame Time



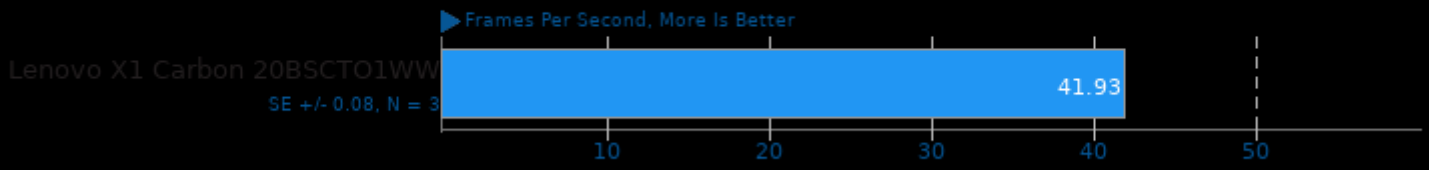
Tesseract 2014-05-12

Resolution: 1280 x 1024



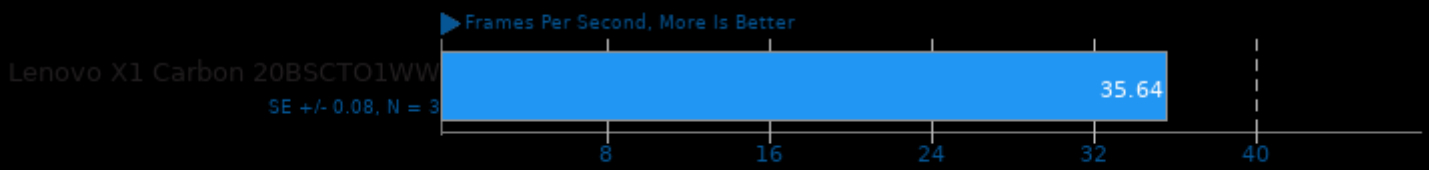
Tesseract 2014-05-12

Resolution: 1680 x 1050



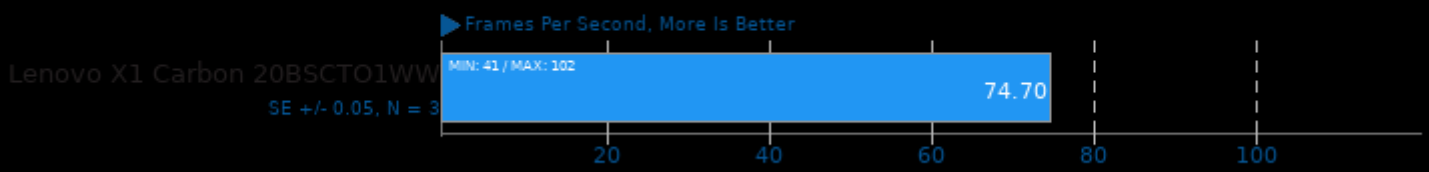
Unigine Tropics 1.3

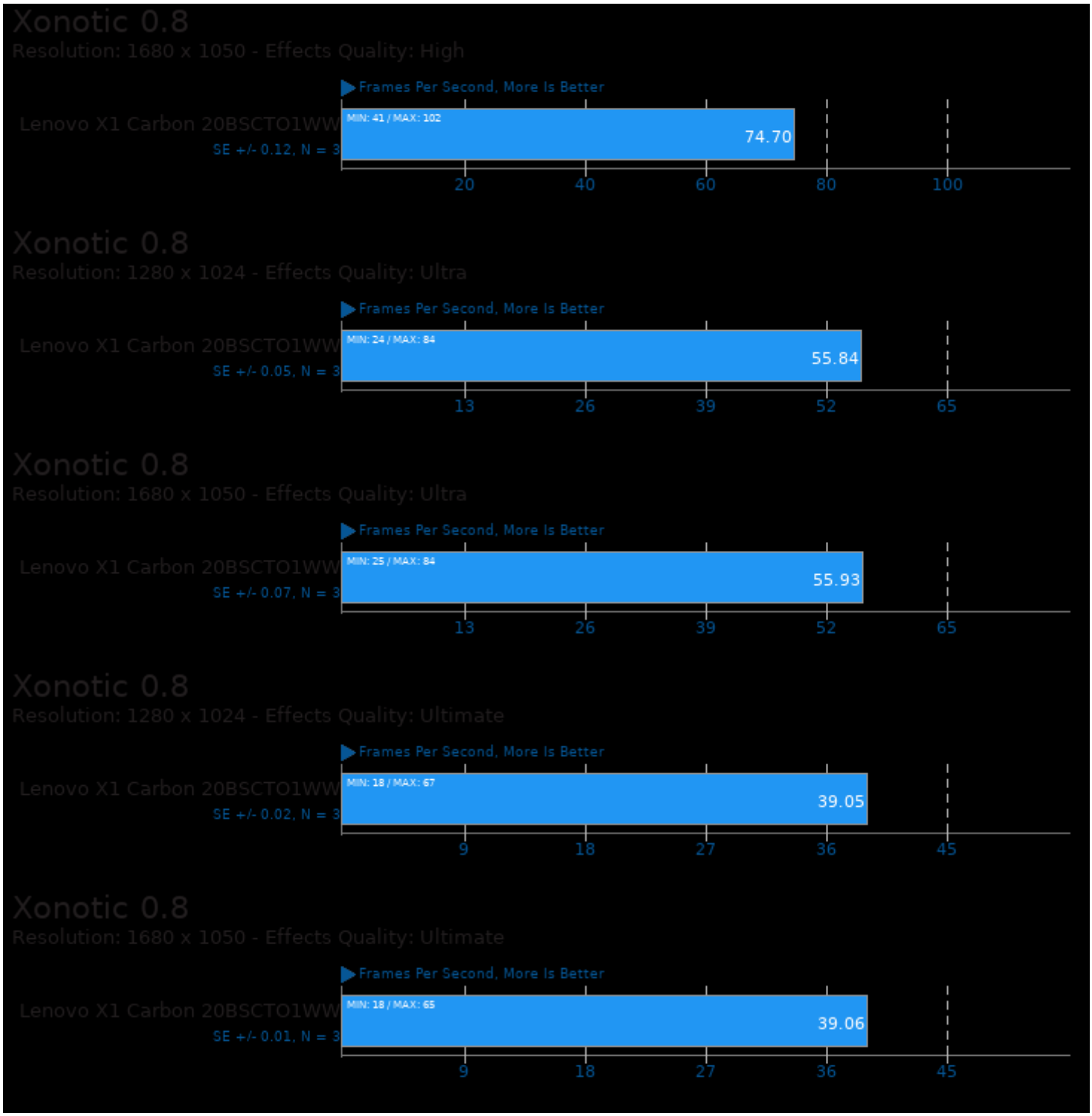
Resolution: 1280 x 1024 - Mode: Fullscreen



Xonotic 0.8

Resolution: 1280 x 1024 - Effects Quality: High

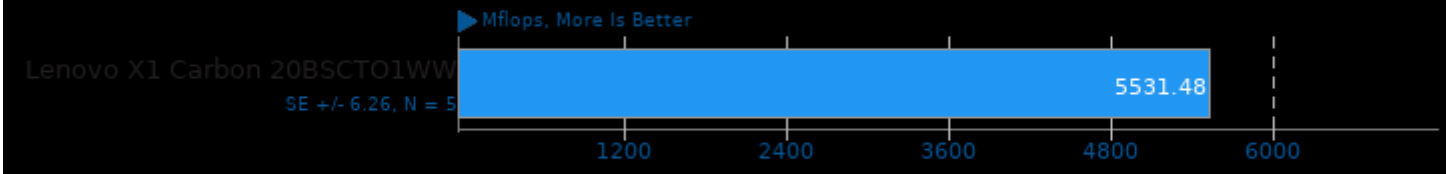



Xonotic 0.8
Resolution: 1680 x 1050 - Effects Quality: High
Frames Per Second, More Is Better
Lenovo X1 Carbon 20BSCTO1WW
SE +/- 0.12, N = 3
MIN: 41 / MAX: 102
74.70
20
40
60
80
100
Xonotic 0.8
Resolution: 1280 x 1024 - Effects Quality: Ultra
Frames Per Second, More Is Better
Lenovo X1 Carbon 20BSCTO1WW
SE +/- 0.05, N = 3
MIN: 24 / MAX: 84
55.84
13
26
39
52
65
Xonotic 0.8
Resolution: 1680 x 1050 - Effects Quality: Ultra
Frames Per Second, More Is Better
Lenovo X1 Carbon 20BSCTO1WW
SE +/- 0.07, N = 3
MIN: 25 / MAX: 84
55.93
13
26
39
52
65
Xonotic 0.8
Resolution: 1280 x 1024 - Effects Quality: Ultimate
Frames Per Second, More Is Better
Lenovo X1 Carbon 20BSCTO1WW
SE +/- 0.02, N = 3
MIN: 18 / MAX: 67
39.05
9
18
27
36
45
Xonotic 0.8
Resolution: 1680 x 1050 - Effects Quality: Ultimate
Frames Per Second, More Is Better
Lenovo X1 Carbon 20BSCTO1WW
SE +/- 0.01, N = 3
MIN: 18 / MAX: 65
39.06
9
18
27
36
45

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FFTW 3.3.4

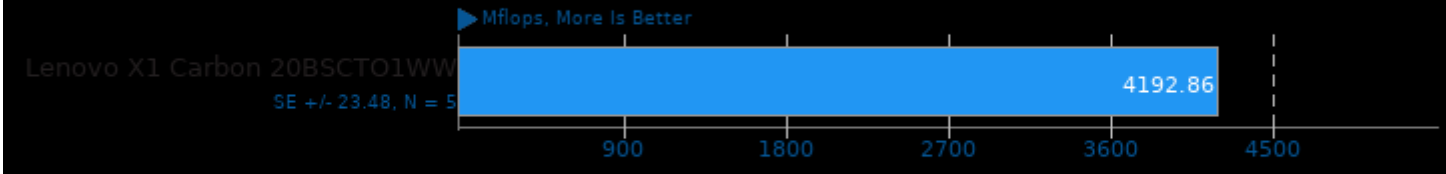
Build: Stock - Size: 1D FFT Size 1024



1. (CC) gcc options: -std=gnu99 -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

FFTW 3.3.4

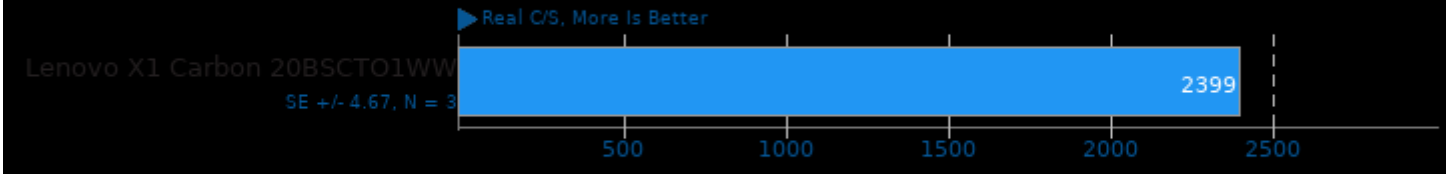
Build: Stock - Size: 2D FFT Size 1024



1. (CC) gcc options: -std=gnu99 -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

John The Ripper 1.8.0

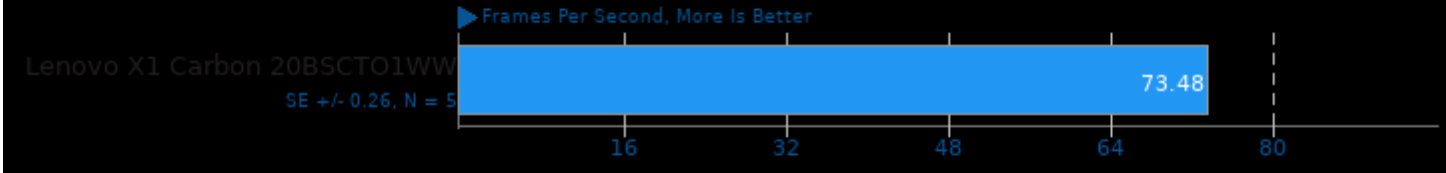
Test: Blowfish



1. (CC) gcc options: -fopenmp -lcrypt

x264 2014-08-30

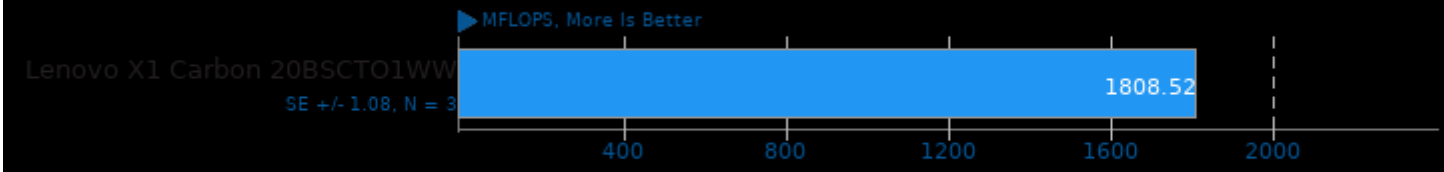
H.264 Video Encoding



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fomit-frame-pointer -fno-tree-vectorize

Himeno Benchmark 3.0

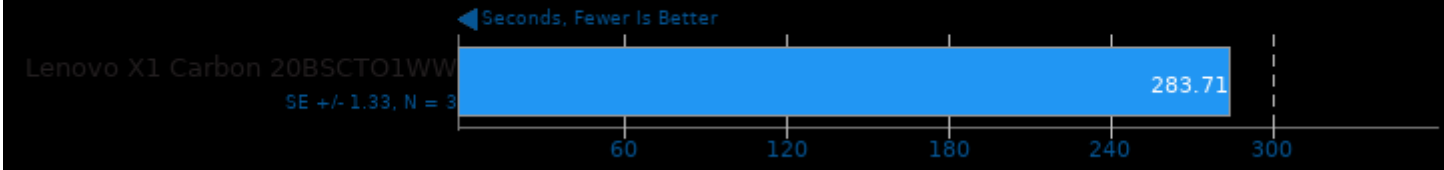
Poisson Pressure Solver



1. (CC) gcc options: -O3

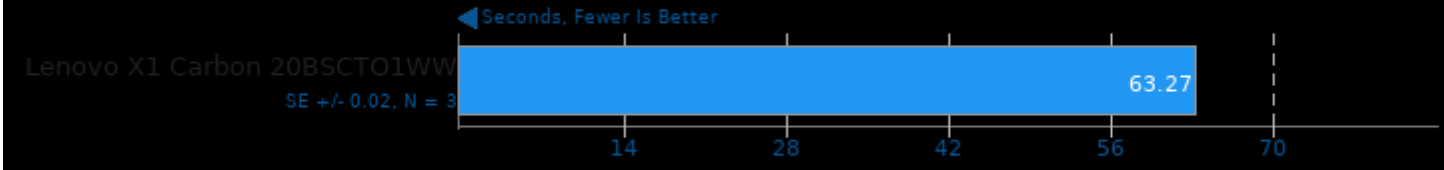
Timed Linux Kernel Compilation 3.18-rc6

Time To Compile



C-Ray 1.1

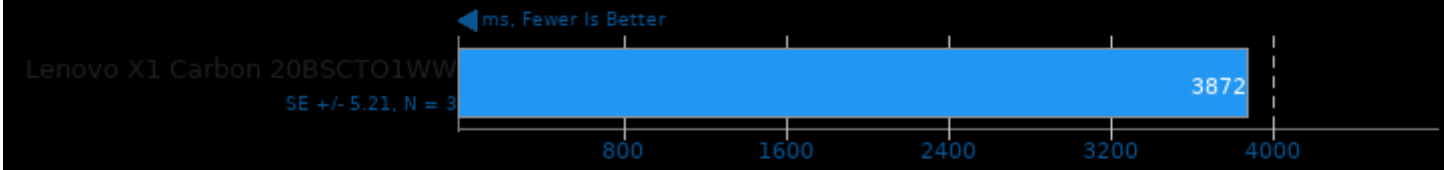
Total Time



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

Stockfish 2014-11-26

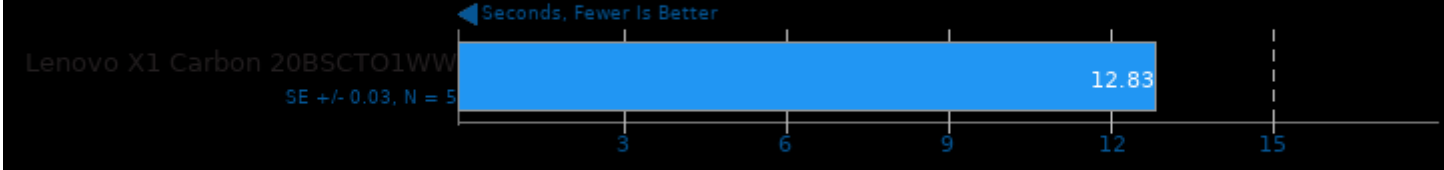
Total Time



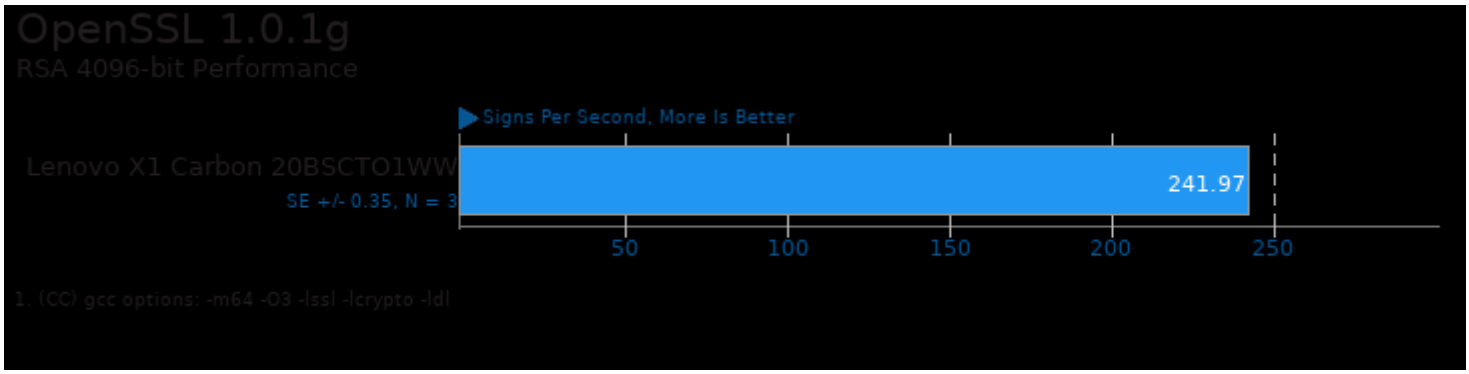
1. (CXX) g++ options: -lpthread -fno-exceptions -fno-rtti -ansi -pedantic -O3 -msse -msse3 -mpopcnt -flto

LAME MP3 Encoding 3.99.3

WAV To MP3



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



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 07:33.