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# i7_6700t

Intel Core i7-6700T testing with a Gigabyte Z170X-UD3-CF and Intel Sky Lake on Ubuntu 15.10 via the Phoronix Test Suite.

**Automated Executive Summary**

*2015-12-26_3 had the most wins, coming in first place for 72% of the tests.*

*The results with the greatest spread from best to worst included:*

*Urban Terror (1920 x 1200 - Total Frame Time) at 6.333x*
*OpenArena (1920 x 1200 - Total Frame Time) at 3.105x*
*Timed MAFFT Alignment (Multiple Sequence Alignment) at 1.019x*
*John The Ripper (Traditional DES) at 1.019x*
*NAS Parallel Benchmarks (Test / Class: LU.A) at 1.019x*
*World of Padman (1920 x 1200) at 1.005x*
*7-Zip Compression (Compress Speed Test) at 1.003x*
*x264 (H.264 Video Encoding) at 1.002x*
*FFmpeg (H.264 HD To NTSC DV) at 1.002x*
*Stream (Type: Copy) at 1.002x.*

# Test Systems:

## 2015-12-26_2

## 2015-12-26_3

## 2015-12-26_4

Processor: Intel Core i7-6700T @ 3.60GHz (8 Cores), Motherboard: Gigabyte Z170X-UD3-CF, Chipset: Intel Sky Lake, Memory: 32768MB, Disk: 120GB CT120BX100SSD1 + 4 x 4001GB Western Digital WD4001FFSX-6, Graphics: Intel Sky Lake (1100MHz), Audio: Realtek ALC1150, Monitor: DELL E248WFP, Network: Intel Connection

OS: Ubuntu 15.10, Kernel: 4.2.0-22-generic (x86_64), Desktop: Unity, Display Server: X Server 1.17.2, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 11.0.2, Compiler: GCC 5.2.1 20151010, File-System: ext4, Screen Resolution: 1920x1200

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,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --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

| | 2015-12-26_2 | 2015-12-26_3 | 2015-12-26_4 |
|---|---|---|---|
| **ET: Quake Wars Demo - 1920 x 1200 (FPS)** | **42.58** | **39.10** | |
| **Normalized** | 100% | 91.83% | |
| **Standard Deviation** | 20.4% | 0% | |
| **World of Padman - 1920 x 1200 (FPS)** | **170.40** | **171.27** | |
| **Normalized** | 99.49% | 100% | |
| **Standard Deviation** | 0.2% | 0.4% | |
| **Stream - Copy (MB/s)** | **25108** | **25062** | |
| **Normalized** | 100% | 99.82% | |
| **Standard Deviation** | 0.3% | 0.3% | |
| **Stream - Scale (MB/s)** | **17719** | **17722** | |
| **Normalized** | 99.99% | 100% | |
| **Standard Deviation** | 0.2% | 0.2% | |
| **Stream - Triad (MB/s)** | **19770** | **19780** | |
| **Normalized** | 99.95% | 100% | |
| **Standard Deviation** | 0.2% | 0.2% | |
| **Stream - Add (MB/s)** | **19706** | **19711** | |
| **Normalized** | 99.97% | 100% | |
| **Standard Deviation** | 0.2% | 0.2% | |
| **NAS Parallel Benchmarks - LU.A (Mop/s)** | **12516** | **12754** | |
| **Normalized** | 98.13% | 100% | |
| **Standard Deviation** | 0.9% | 0.8% | |
| **Timed MAFFT Alignment - M.S.A (sec)** | **4.71** | **4.62** | |
| **Normalized** | 98.09% | 100% | |
| **Standard Deviation** | 3.7% | 3.5% | |

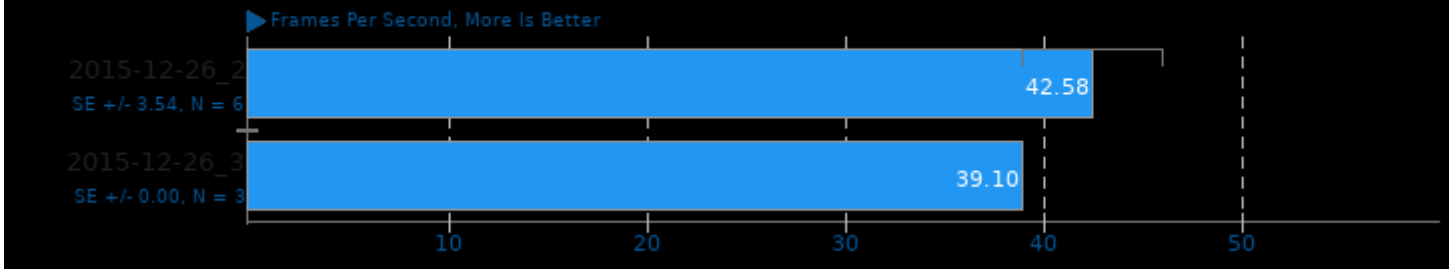
# i7_6700t

| | | | |
|---|---|---|---|
| **TSCP - A.C.P (Nodes/s)** | **1234928** | **1237148** | |
| **Normalized** | 99.82% | 100% | |
| **Standard Deviation** | 0% | 0.1% | |
| **John The Ripper - Traditional DES (Real C/S)** | **21626667** | **22041333** | |
| **Normalized** | 98.12% | 100% | |
| **Standard Deviation** | 0.3% | 0% | |
| **John The Ripper - Blowfish (Real C/S)** | | 6840 | |
| **Standard Deviation** | | 0.1% | |
| **TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)** | | 201.91 | |
| **Standard Deviation** | | 1.3% | |
| **x264 - H.2.V.E (FPS)** | | **186.15** | **186.59** |
| **Normalized** | | 99.76% | 100% |
| **Standard Deviation** | | 3.4% | 2.7% |
| **GraphicsMagick - HWB Color Space (Iterations/min)** | | 206 | 206 |
| **Standard Deviation** | | 0.3% | 0.3% |
| **GraphicsMagick - L.A.T (Iterations/min)** | | 93 | 93 |
| **Standard Deviation** | | 0% | 0% |
| **GraphicsMagick - Sharpen (Iterations/min)** | | 121 | |
| **Standard Deviation** | | 0% | |
| **GraphicsMagick - Resizing (Iterations/min)** | | 182 | |
| **Standard Deviation** | | 0% | |
| **Himeno Benchmark - P.P.S (MFLOPS)** | | 2311 | |
| **Standard Deviation** | | 0.6% | |
| **7-Zip Compression - C.S.T (MIPS)** | | **21837** | **21771** |
| **Normalized** | | 100% | 99.7% |
| **Standard Deviation** | | 1.6% | 2.5% |
| **C-Ray - Total Time (sec)** | | **21.36** | **21.37** |
| **Normalized** | | 100% | 99.95% |
| **Standard Deviation** | | 0.1% | 0% |
| **Parallel BZIP2 Compression - 2.F.C (sec)** | | 9.63 | |
| **Standard Deviation** | | 0.5% | |
| **Smallpt - G.I.R.1.S (sec)** | | 84 | 84 |
| **Standard Deviation** | | 0% | 1.2% |
| **Crafty - Elapsed Time (sec)** | | **68.99** | **68.91** |
| **Normalized** | | 99.88% | 100% |
| **Standard Deviation** | | 0% | 0.1% |
| **FLAC Audio Encoding - WAV To FLAC (sec)** | | 5.60 | 5.60 |
| **Standard Deviation** | | 0.4% | 0.8% |
| **LAME MP3 Encoding - WAV To MP3 (sec)** | | **12.09** | **12.08** |
| **Normalized** | | 99.92% | 100% |
| **Standard Deviation** | | 0.6% | 0.4% |
| **FFmpeg - H.2.H.T.N.D (sec)** | | **9.56** | **9.54** |
| **Normalized** | | 99.79% | 100% |
| **Standard Deviation** | | 1.4% | 0.9% |
| **Tachyon - Total Time (sec)** | | 11.83 | |
| **Standard Deviation** | | 3.4% | |
| **OpenSSL - R.4.b.P (Signs/sec)** | | **631.77** | **631.57** |
| **Normalized** | | 100% | 99.97% |
| **Standard Deviation** | | 1.2% | 1.4% |
| **Apache Benchmark - S.W.P.S (Reqs/sec)** | | **39710** | **39680** |
| **Normalized** | | 100% | 99.92% |
| **Standard Deviation** | | 0.6% | 0.4% |
| **SQLite - T.S.I (sec)** | | | 67.93 |

| | |
|---|---|
| **Standard Deviation** | 0% |
| **Dbench - 1 Client (MB/s)** | 82.80 |
| **Standard Deviation** | 0.3% |
| **Unpacking The Linux Kernel - linux-2.6.32.tar.bz2 (sec)** | 8.52 |
| **Standard Deviation** | 3.4% |
| **PostMark - D.T.P (TPS)** | 6581 |
| **Standard Deviation** | 2.6% |
| **OpenArena - 1920 x 1200 (FPS)** | 43.33 |
| **Standard Deviation** | 0.1% |
| **Tremulous - 1920 x 1200 (FPS)** | 178.03 |
| **Standard Deviation** | 0.9% |
| **Urban Terror - 1920 x 1200 (FPS)** | 110.53 |
| **Standard Deviation** | 1.4% |
| **John The Ripper - Blowfish (Real C/S)** | 6840 |
| **Standard Deviation** | 0.1% |
| **John The Ripper - Traditional DES (Real C/S)** | 22043667 |
| **Standard Deviation** | 0% |
| **John The Ripper - MD5 (Real C/S)** | 85083 |
| **Standard Deviation** | 0.1% |
| **Timed PHP Compilation - Time To Compile (sec)** | 25.59 |
| **Standard Deviation** | 0.5% |
| **Bullet Physics Engine - 1000 Stack (sec)** | 5.57 |
| **Standard Deviation** | 0.2% |
| **Bullet Physics Engine - Convex Trimesh** | 1.33 |
| **Standard Deviation** | 0.4% |
| **dcraw - R.T.P.I.C (sec)** | 44.73 |
| **Standard Deviation** | 0.1% |

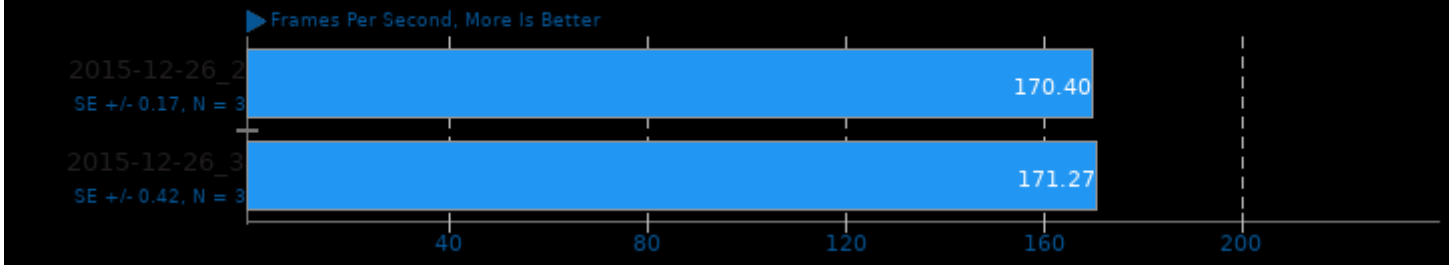
## ET: Quake Wars Demo

1920 x 1200



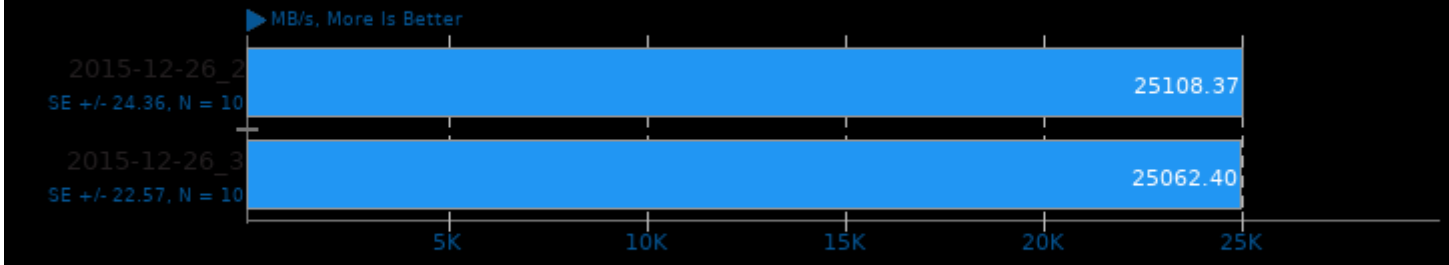

## World of Padman 1.2

1920 x 1200




## Stream 2013-01-17

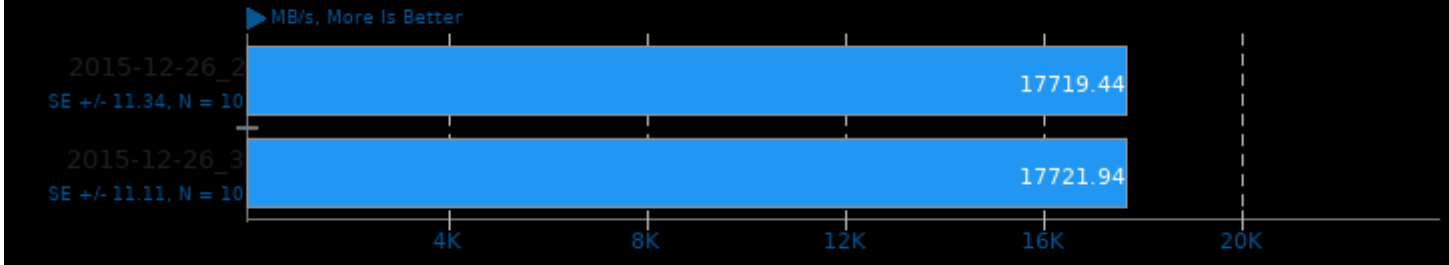
Type: Copy




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

## Stream 2013-01-17

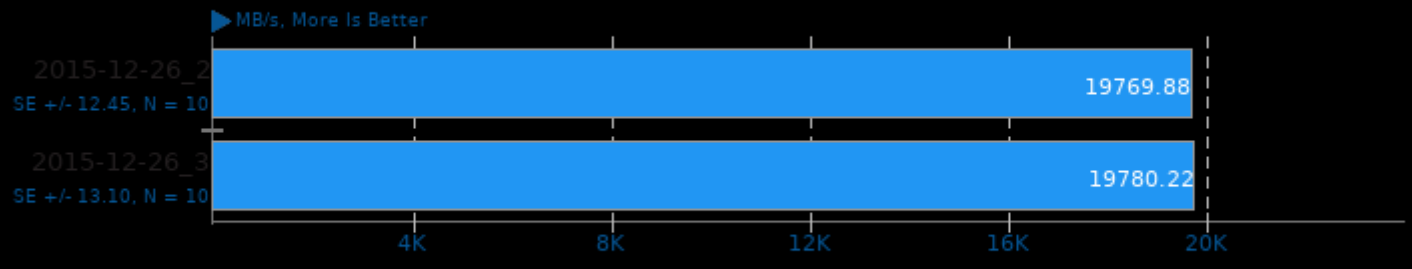
Type: Scale




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

## Stream 2013-01-17

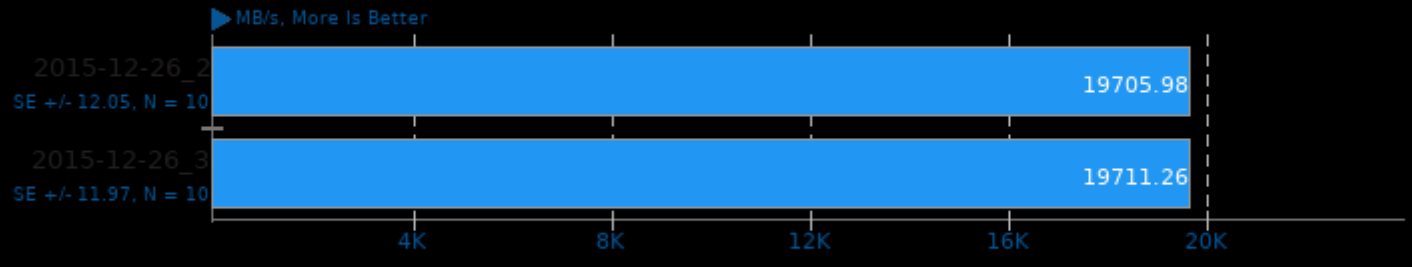
Type: Triad




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

## Stream 2013-01-17

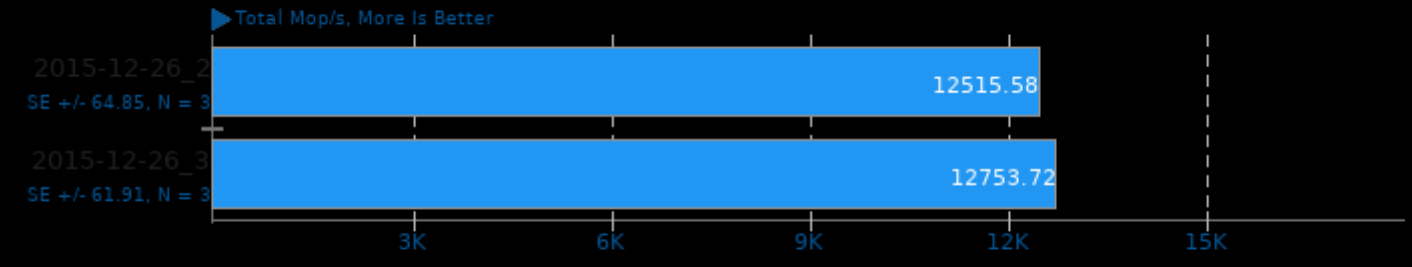
Type: Add




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

## NAS Parallel Benchmarks 3.3

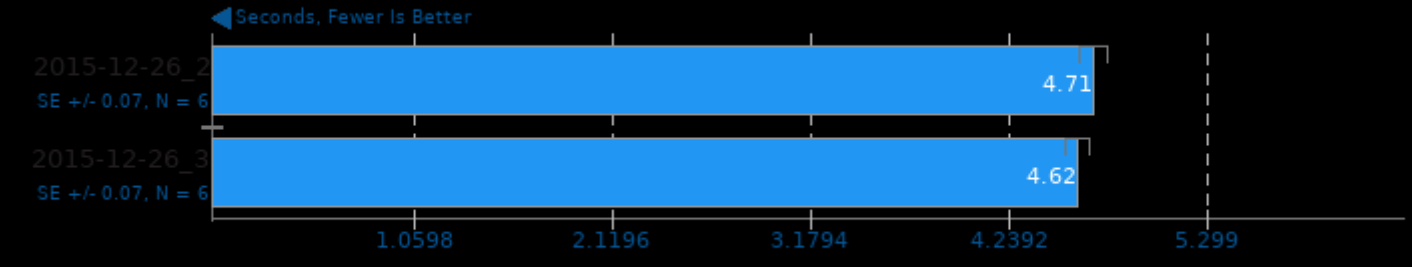
Test / Class: LU.A




1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_f77 -lmpi -ldl -lhwloc
2. Open MPI 1.6.5

## Timed MAFFT Alignment 6.864

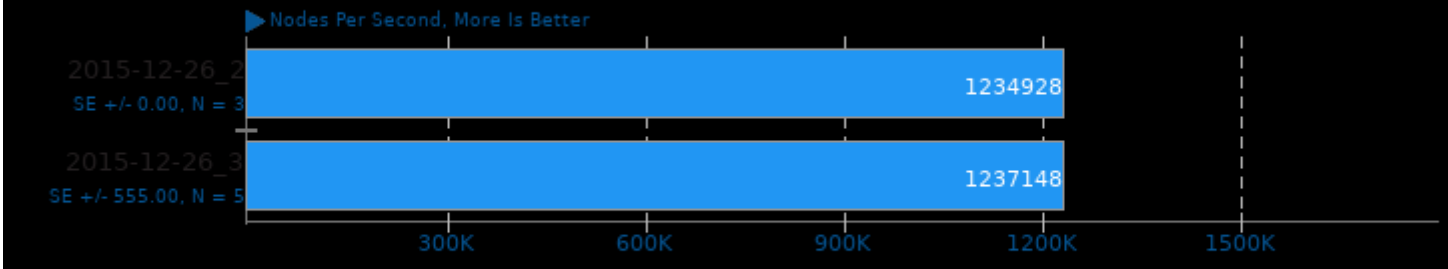
Multiple Sequence Alignment




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

## TSCP 1.81

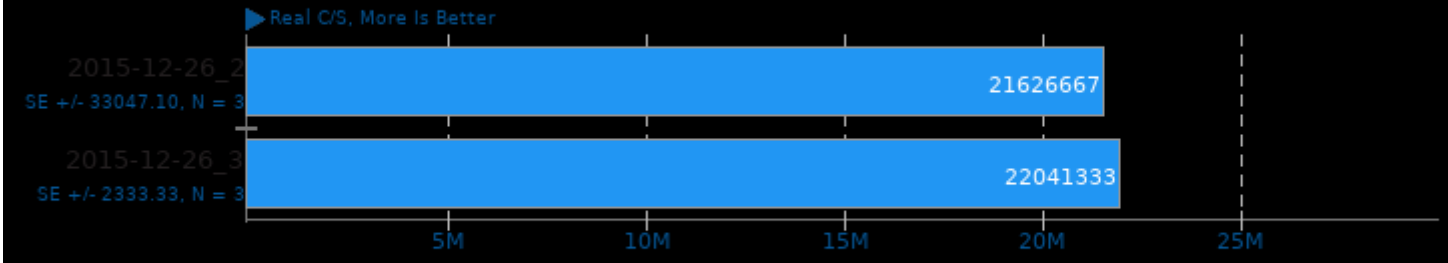
AI Chess Performance




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

## John The Ripper 1.8.0

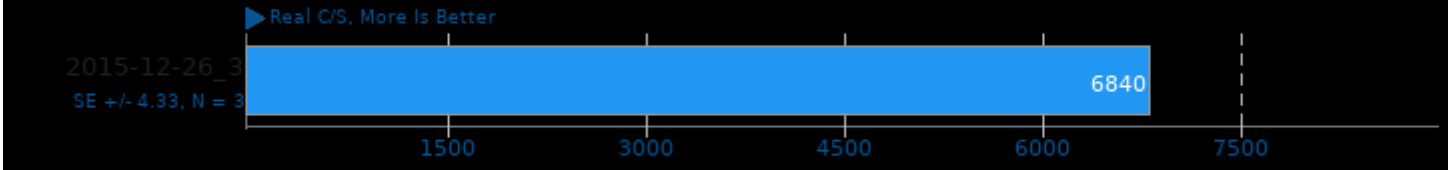
Traditional DES




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

## John The Ripper 1.8.0

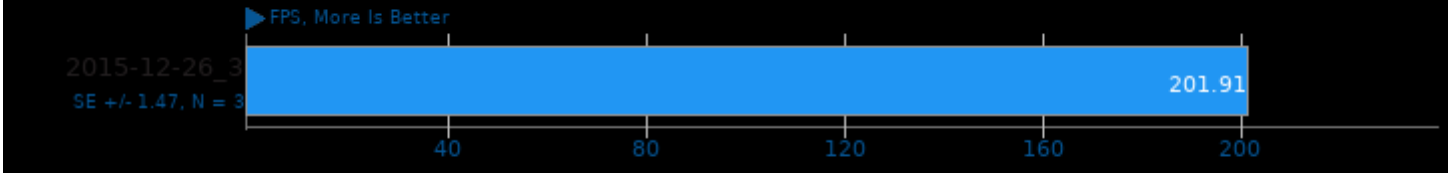
Blowfish




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

## TTSIOD 3D Renderer 2.3a

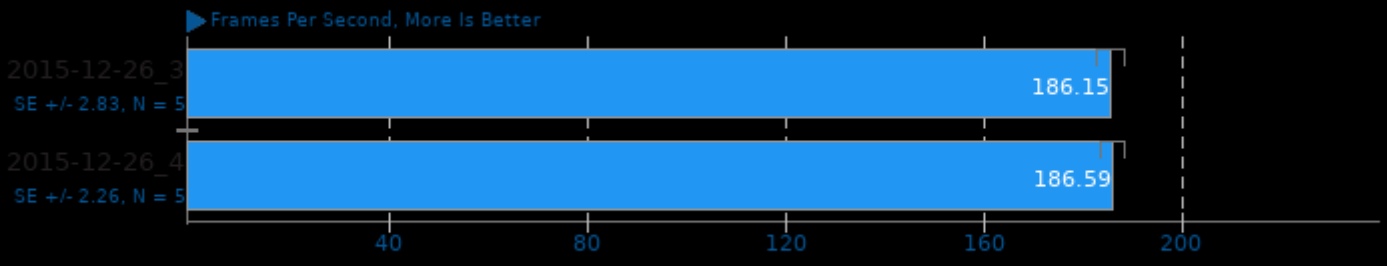
Phong Rendering With Soft-Shadow Mapping




1. (CXX) g++ options: -O3 -fomit-frame-pointer -ffast-math -mtune=native -flto -msse -mrecip -mfpmath=sse -msse2 -mssse3 -lSDL -lstdc++

## x264 2015-11-02

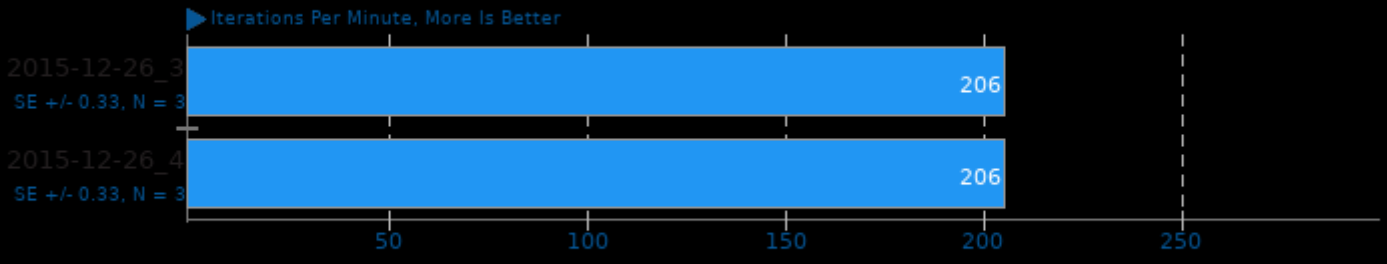
H.264 Video Encoding




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

## GraphicsMagick 1.3.19

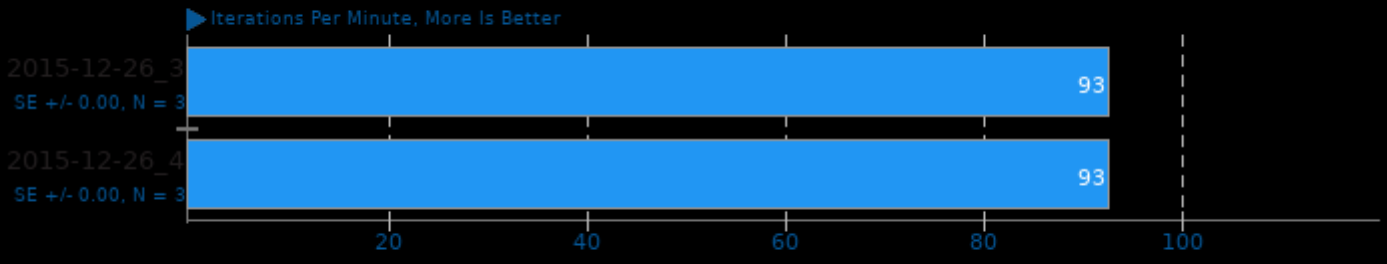
HWB Color Space




1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -ljpeg -lXext -lX11 -llzma -lz -lm -lgomp -lpthread

## GraphicsMagick 1.3.19

Local Adaptive Thresholding




1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -ljpeg -lXext -lX11 -llzma -lz -lm -lgomp -lpthread

## GraphicsMagick 1.3.19

Sharpen




1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -ljpeg -lXext -lX11 -llzma -lz -lm -lgomp -lpthread

## GraphicsMagick 1.3.19

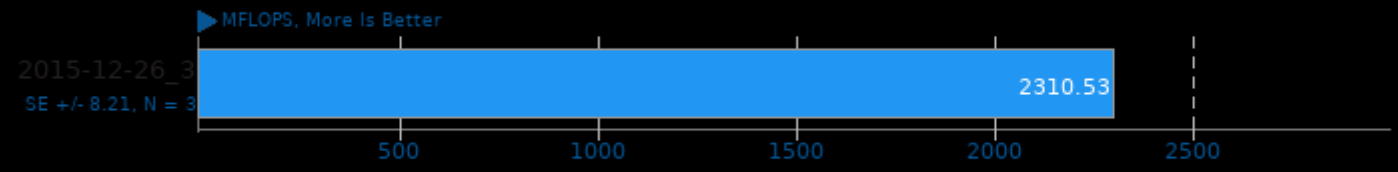
Resizing




1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -ljpeg -lXext -lX11 -llzma -lz -lm -lgomp -lpthread

## Himeno Benchmark 3.0

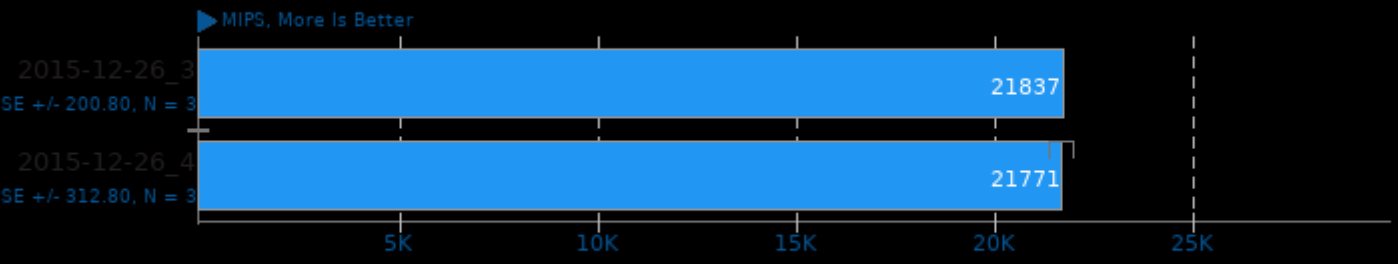
Poisson Pressure Solver




1. (CC) gcc options: -O3

## 7-Zip Compression 9.20.1

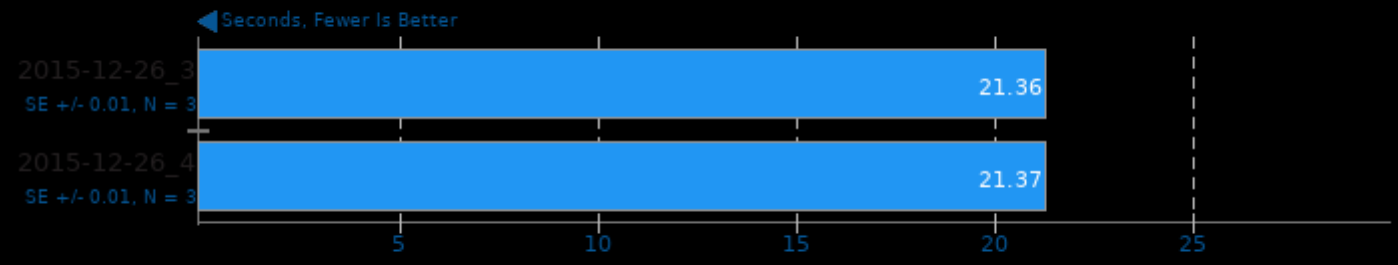
Compress Speed Test




1. (CXX) g++ options: -pipe -lpthread

## C-Ray 1.1

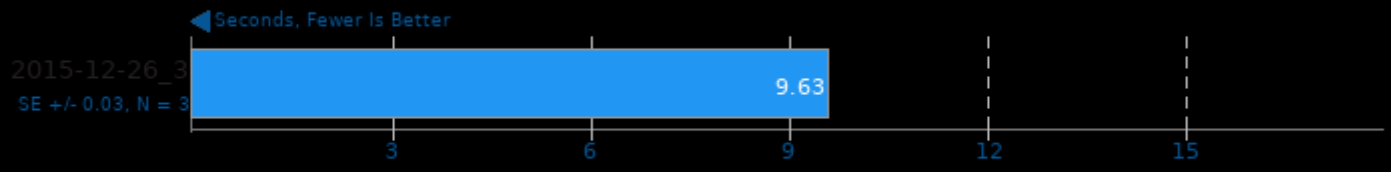
Total Time




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

## Parallel BZIP2 Compression 1.1.12

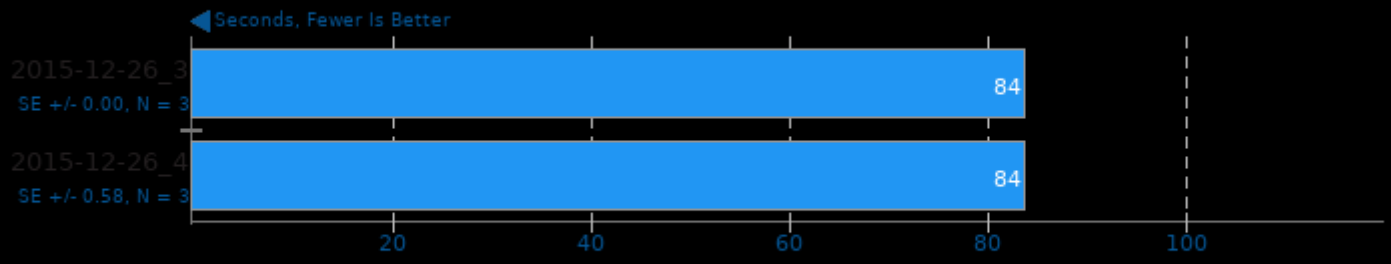
256MB File Compression




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

## Smallpt 1.0

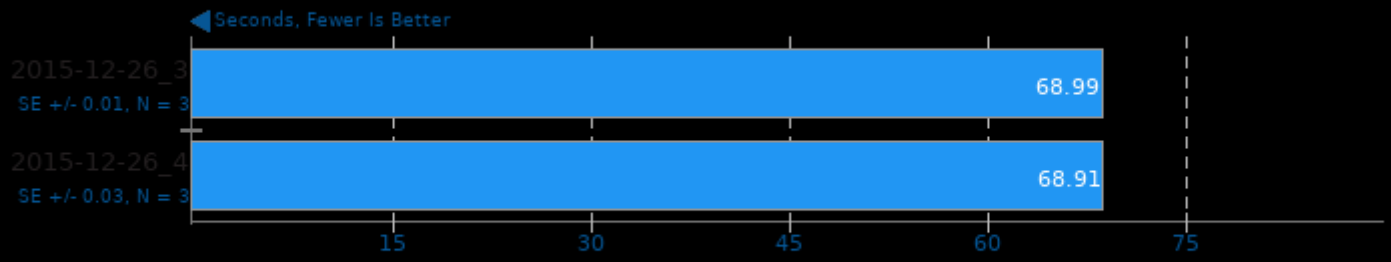
Global Illumination Renderer; 100 Samples




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

## Crafty 23.4

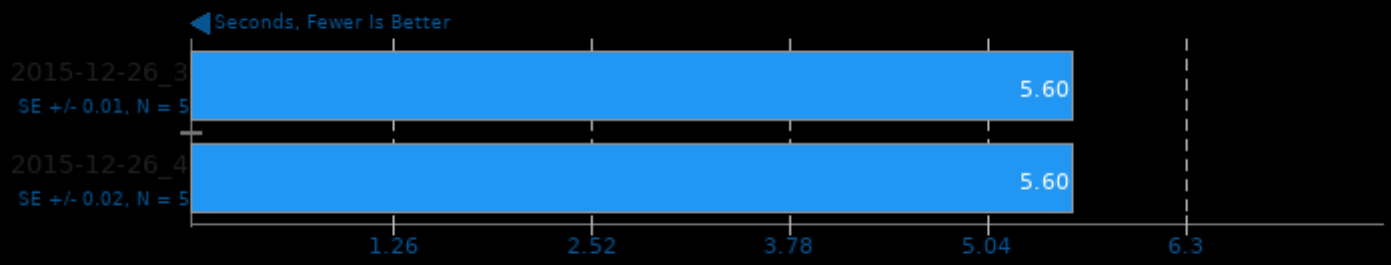
Elapsed Time




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

## FLAC Audio Encoding 1.3.1

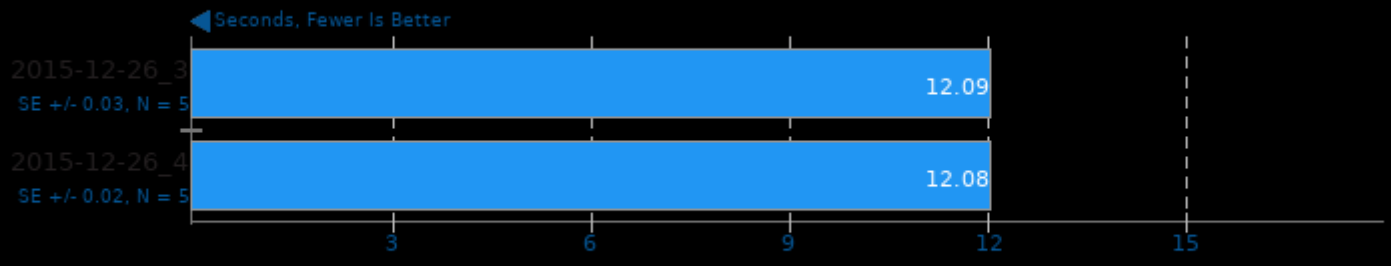
WAV To FLAC




1. (CXX) g++ options: -O2 -fvisibility=hidden -logg -lm

## LAME MP3 Encoding 3.99.3

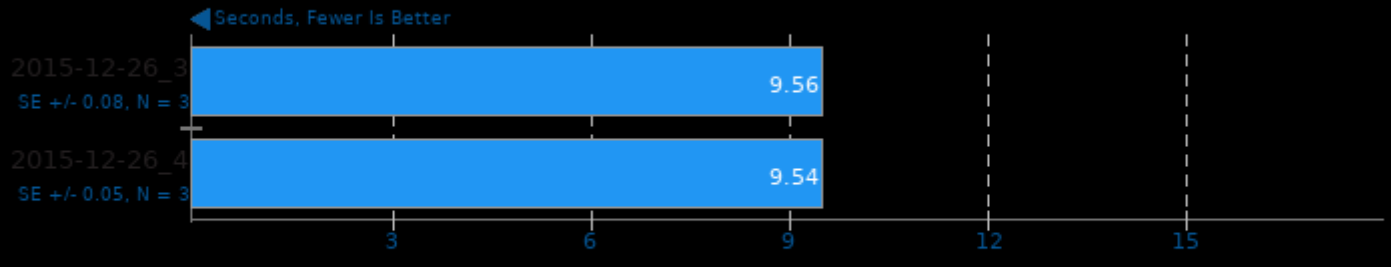
WAV To MP3




1. (CC) gcc options: -O3 -ffast-math -funroll-loops -pipe -lm

## FFmpeg 2.8.1

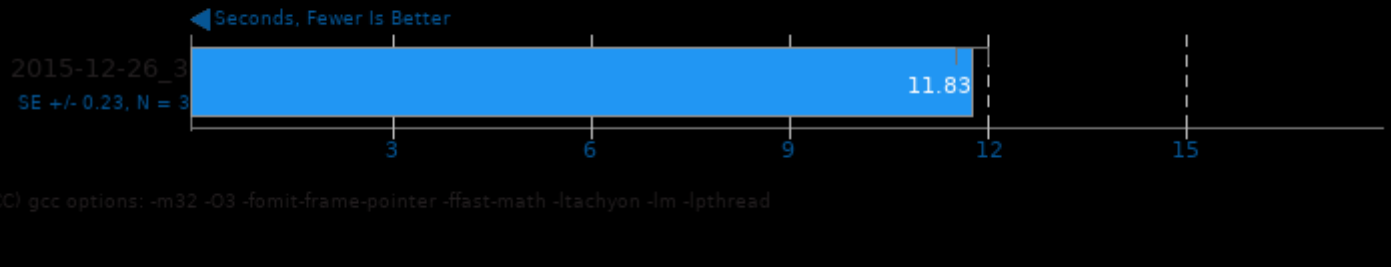
H.264 HD To NTSC DV




1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lxcb -lxcb-xfixes -lxcb-render -lxcb-shape -lX11 -lasound -lSD

## Tachyon 0.98.9

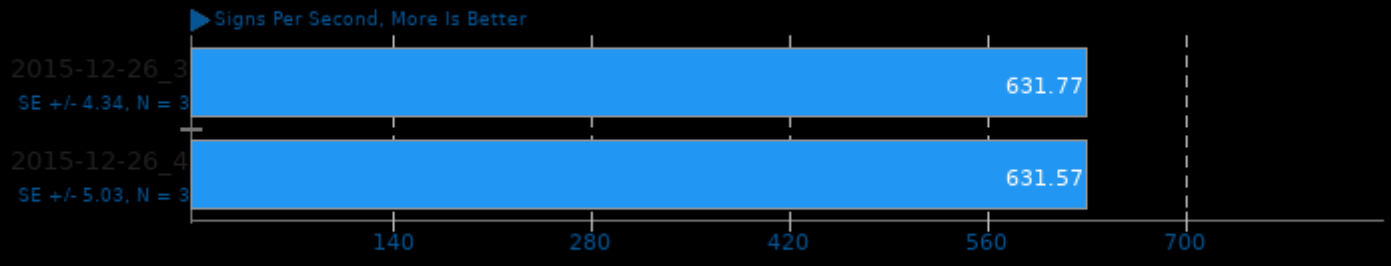
Total Time




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

## OpenSSL 1.0.1g

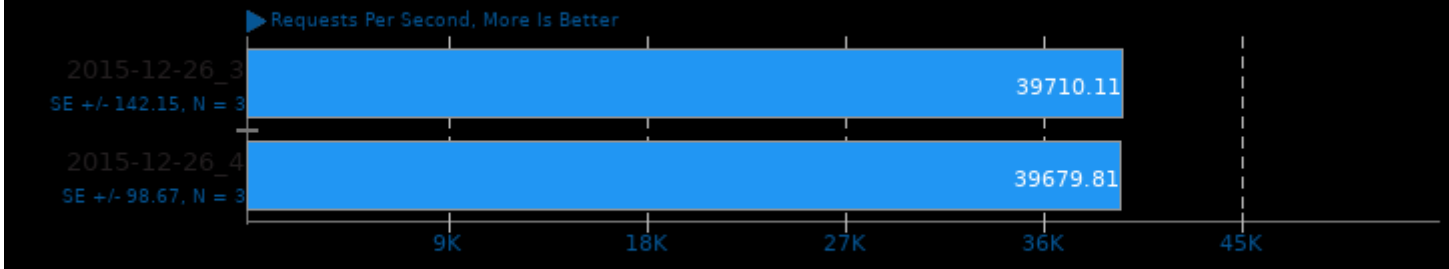
RSA 4096-bit Performance




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

## Apache Benchmark 2.4.7

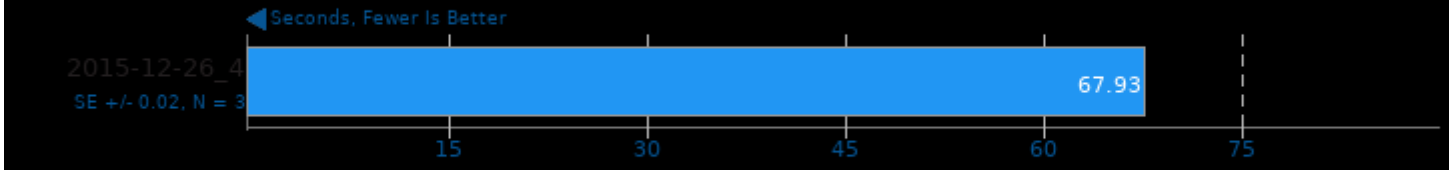
Static Web Page Serving




1. (CC) gcc options: -shared -fPIC -O2 -pthread

## SQLite 3.8.10.2

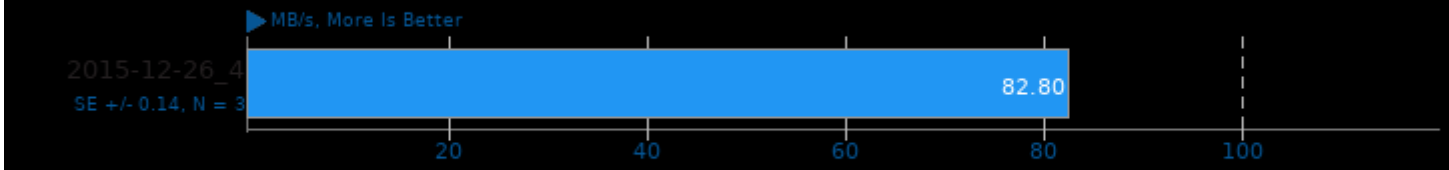
Timed SQLite Insertions




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

## Dbench 4.0

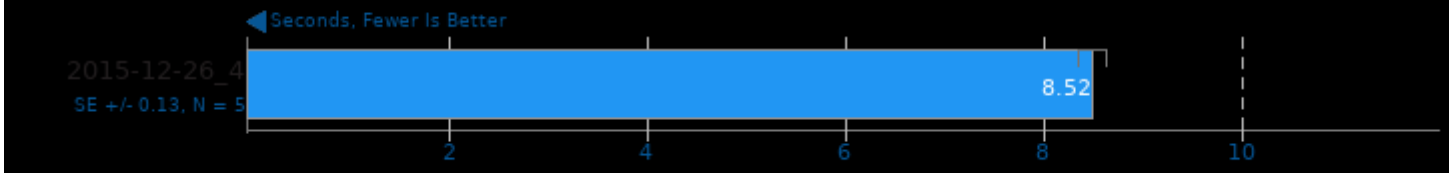
1 Client




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

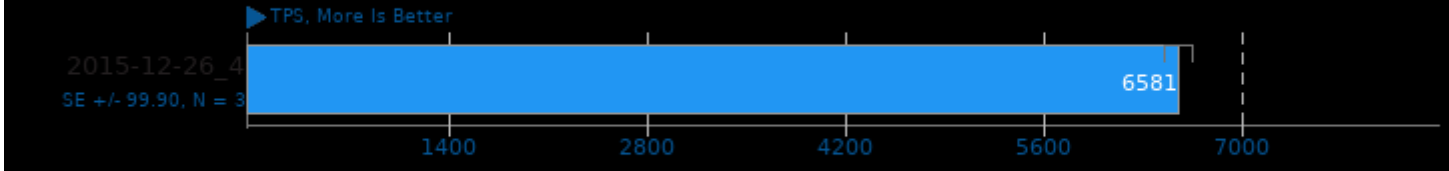
## Unpacking The Linux Kernel

linux-2.6.32.tar.bz2




## PostMark 1.51

Disk Transaction Performance




1. (CC) gcc options: -O3

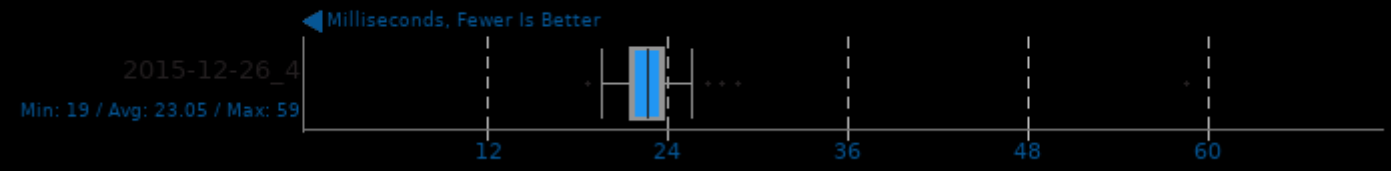
## OpenArena 0.8.8

1920 x 1200




## OpenArena 0.8.8

1920 x 1200 - Total Frame Time




## Tremulous 1.1.0

1920 x 1200



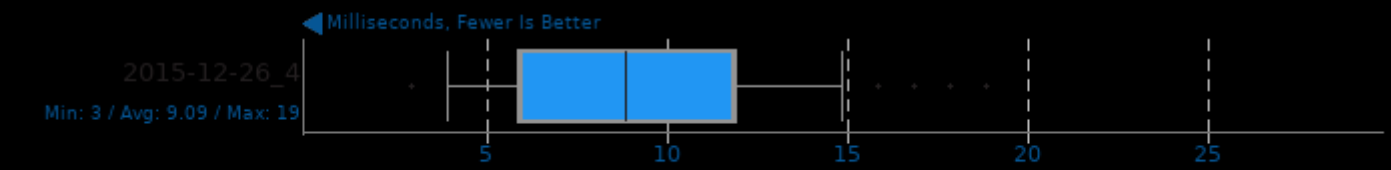

## Urban Terror 4.2.013

1920 x 1200



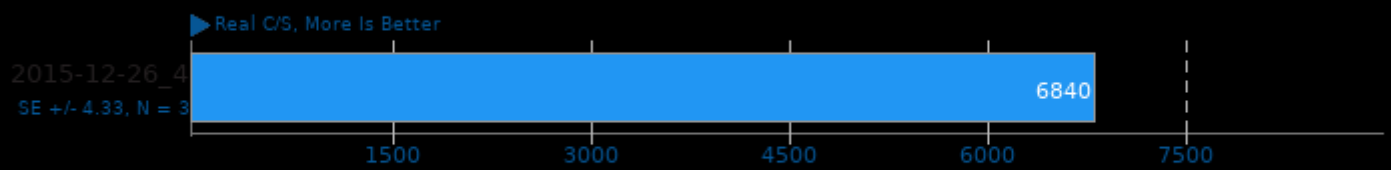

## Urban Terror 4.2.013

1920 x 1200 - Total Frame Time




## John The Ripper 1.8.0

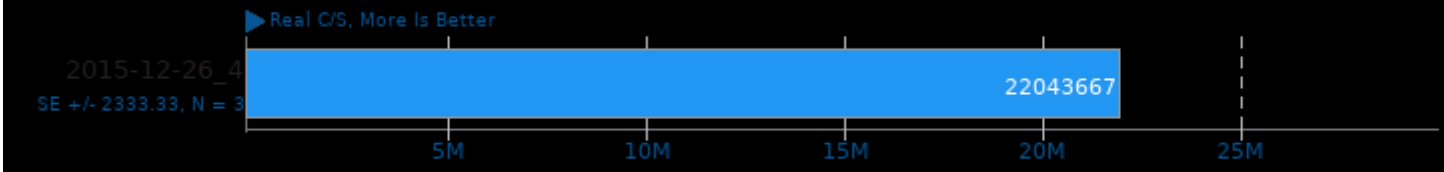
Test: Blowfish




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

## John The Ripper 1.8.0

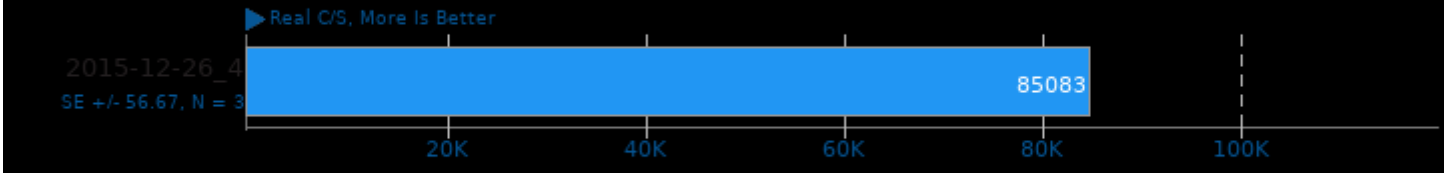
Test: Traditional DES




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

## John The Ripper 1.8.0

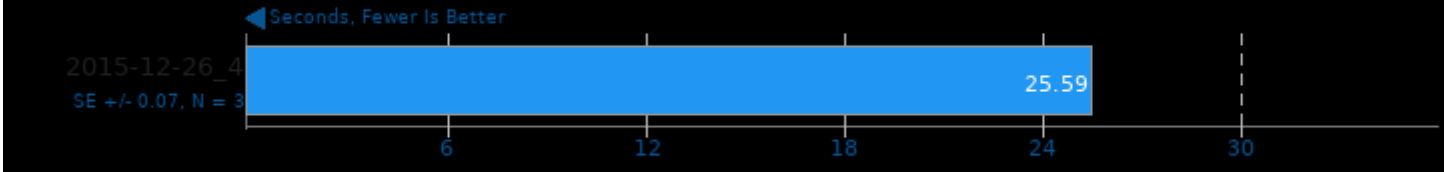
Test: MD5




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

## Timed PHP Compilation 5.2.9

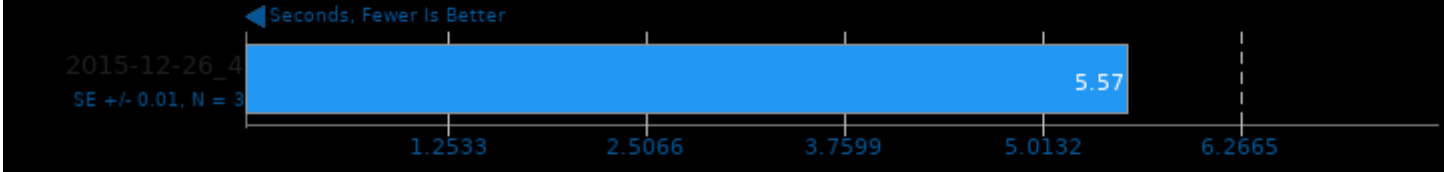
Time To Compile




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

## Bullet Physics Engine 2.81

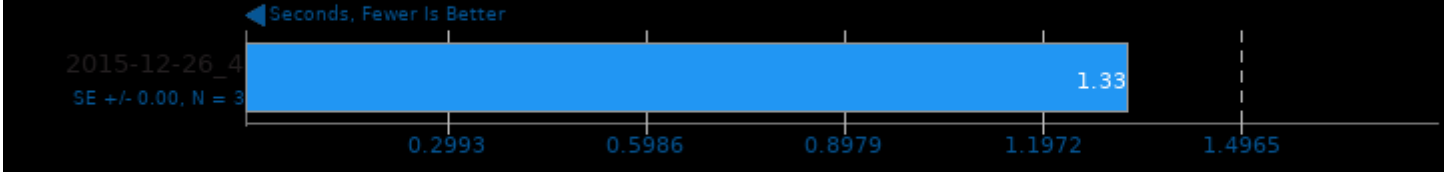
Test: 1000 Stack



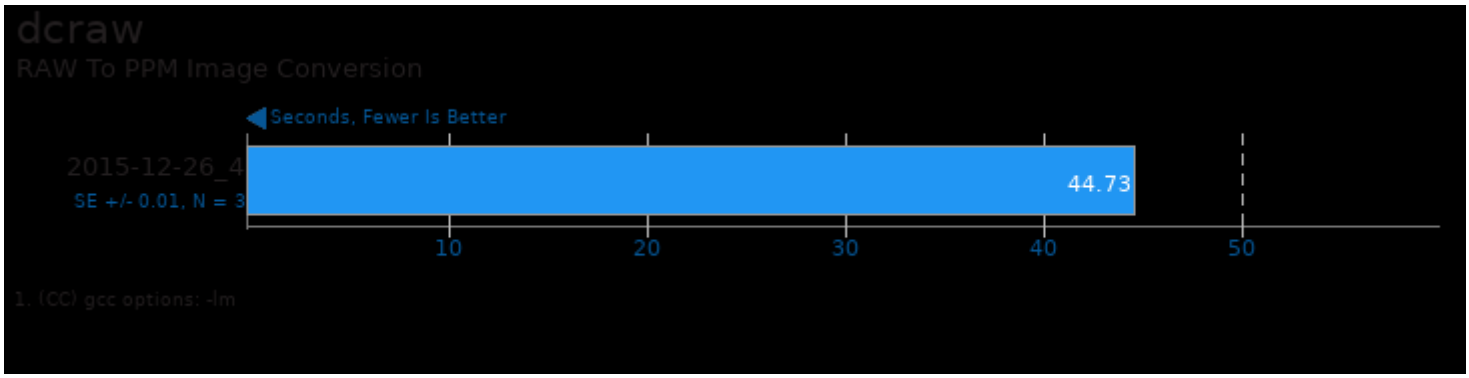

1. (CXX) g++ options: -O3 -rdynamic -lglut -lGL -lGLU

## Bullet Physics Engine 2.81

Test: Convex Trimesh




1. (CXX) g++ options: -O3 -rdynamic -lglut -lGL -lGLU




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