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desktop2_2018-06-26

Intel Core i5-4460 testing with a ASUS Z87M-PLUS (1107 BIOS) and Intel Haswell Desktop 1536MB on ManjaroLinux 17.1.10 via the Phoronix Test Suite.

Test Systems:

Realtek RTL8111 - Intel Core i5-4460

Processor: Intel Core i5-4460 @ 3.40GHz (4 Cores), Motherboard: ASUS Z87M-PLUS (1107 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 12288MB, Disk: 250GB CT250MX500SSD1, Graphics: Intel Haswell Desktop 1536MB (1100MHz), Audio: Intel Xeon E3-1200 v3/4th, Monitor: T24B300, Network: Realtek RTL8111/8168/8411

OS: ManjaroLinux 17.1.10, Kernel: 4.14.48-2-MANJARO (x86_64), Desktop: Cinnamon 3.8.4, Display Server: X Server 1.19.6, Display Driver: intel 2.99.917, OpenGL: 4.5 Mesa 18.1.1, Compiler: GCC 8.1.1 20180531, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --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-libmpx --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix

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--mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Disk Notes: BFQ-SQ / data=ordered,discard,noatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
Python Notes: Python 3.6.5
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline IBPB IBRS_FW Protection

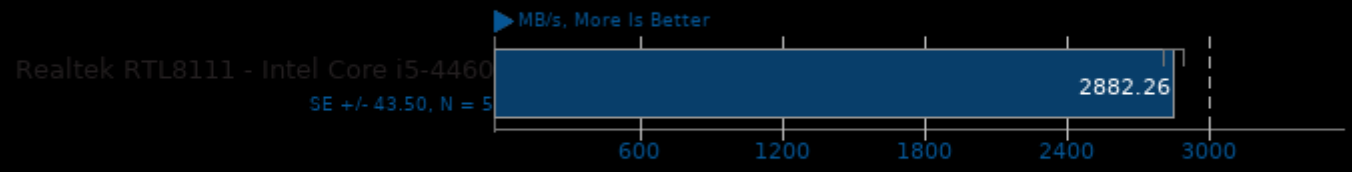
	Realtek RTL8111 - Intel Core i5-4460
AIO-Stress - Rand Write (MB/s)	2882
Standard Deviation	3.4%
SQLite - T.S.I (sec)	66.83
Standard Deviation	15%
FS-Mark - 1.F.1.S (Files/s)	185.82
Standard Deviation	24.4%
Dbench - 12 Clients (MB/s)	310.08
Standard Deviation	0.6%
Dbench - 48 Clients (MB/s)	414.36
Standard Deviation	0.8%
Dbench - 128 Clients (MB/s)	431.01
Standard Deviation	2%
Dbench - 1 Clients (MB/s)	124.08
Standard Deviation	31.5%
Threaded I/O Tester - 64MB Rand Read - 32 Threads (MB/s)	114841
Standard Deviation	8.1%
Threaded I/O Tester - 64MB Rand Write - 32 Threads (MB/s)	677.29
Standard Deviation	2.6%
Compile Bench - Compile (MB/s)	822.72
Standard Deviation	0.1%
Compile Bench - Initial Create (MB/s)	383.53
Standard Deviation	7.7%
Compile Bench - Read Compiled Tree (MB/s)	1758
Standard Deviation	2.5%
Unpacking The Linux Kernel - linux-4.15.tar.xz (sec)	6.61
Standard Deviation	0.3%
PostMark - D.T.P (TPS)	5320
Standard Deviation	2.1%
RAMspeed SMP - Integer Add (MB/s)	8571
RAMspeed SMP - Integer Copy (MB/s)	7592
RAMspeed SMP - Integer Scale (MB/s)	7568
RAMspeed SMP - Floating-Point Add (MB/s)	8571
Stream - Copy (MB/s)	9767
Standard Deviation	0%
Stream - Scale (MB/s)	7618
Standard Deviation	0%
Stream - Triad (MB/s)	8621
Standard Deviation	0.2%
Stream - Add (MB/s)	8606
Standard Deviation	0.2%
Stream - Copy (MB/s)	9767
Standard Deviation	0%

Stream - Scale (MB/s)	7618
Standard Deviation	0%
Stream - Add (MB/s)	8606
Standard Deviation	0.2%
NAS Parallel Benchmarks - LU.A (Mop/s)	2174
Standard Deviation	0.3%
Timed HMMer Search - P.D.S (sec)	15.62
Standard Deviation	1.6%
Timed MAFFT Alignment - M.S.A (sec)	6.11
Standard Deviation	0.1%
GNU GMP GMPbench - Total Time (GMPbench Score)	4066
Java SciMark - FFT Performance (Mflops)	1195
Standard Deviation	3%
Java SciMark - SOR Performance (Mflops)	1562
Standard Deviation	0%
Java SciMark - C.P (Mflops)	1997
Standard Deviation	0.8%
Java SciMark - M.C.P (Mflops)	779.91
Standard Deviation	0%
Bork File Encrypter - F.E.T (sec)	9.60
Standard Deviation	0.7%
Fhourstones - C.C.4.S (Kpos / sec)	12185
Standard Deviation	0.2%
CacheBench - Read Cache (MB/s)	2877
Standard Deviation	0%
CacheBench - Write Cache (MB/s)	22640
Standard Deviation	0.1%
SciMark - Composite (Mflops)	512.70
Standard Deviation	0.1%
Crafty - Elapsed Time (Nodes/s)	6277974
Standard Deviation	0.3%
TSCP - A.C.P (Nodes/s)	1134690
Standard Deviation	0.1%
x264 - H.2.V.E (FPS)	24.85
Standard Deviation	2.5%
GraphicsMagick - HWB Color Space (Iterations/min)	195
Himeno Benchmark - P.P.S (MFLOPS)	1703
Standard Deviation	3.5%
7-Zip Compression - C.S.T (MIPS)	15183
Standard Deviation	2.8%
Timed ImageMagick Compilation - Time To Compile (sec)	111.10
Standard Deviation	0.8%
Timed Linux Kernel Compilation - Time To Compile (sec)	230.23
Standard Deviation	0.3%
Timed PHP Compilation - Time To Compile (sec)	153.17
Standard Deviation	1.1%
C-Ray - Total Time (sec)	27.62
Standard Deviation	0.1%
Parallel BZIP2 Compression - 2.F.C (sec)	15.07
Standard Deviation	2.8%
POV-Ray - Trace Time (sec)	171.47
Standard Deviation	0%
Gzip Compression - L.S.T.A.T.t.g (sec)	45.05

Standard Deviation	1.5%
LZMA Compression - 2.F.C (sec)	293.00
Standard Deviation	0.4%
dcraw - R.T.P.I.C (sec)	54.72
Standard Deviation	0.2%
FLAC Audio Encoding - WAV To FLAC (sec)	11.89
Standard Deviation	0.3%
LAME MP3 Encoding - WAV To MP3 (sec)	36.94
Standard Deviation	0%
WavPack Audio Encoding - WAV To WavPack (sec)	7.93
Standard Deviation	0.6%
eSpeak Speech Engine - T.T.S.S (sec)	36.42
Standard Deviation	0.5%
FFmpeg - H.2.H.T.N.D (sec)	9.25
Standard Deviation	0.9%
GnuPG - 2.F.E (sec)	16.94
Standard Deviation	0.3%
Mencoder - AVI To LAVC (sec)	21.61
Standard Deviation	0.4%
Minion - Solitaire (sec)	81.00
Standard Deviation	0.9%
Sudokut - Total Time (sec)	13.04
Standard Deviation	0.2%
OpenSSL - R.4.b.P (Signs/sec)	572.73
Standard Deviation	0%
Apache Benchmark - S.W.P.S (Reqs/sec)	29837
Standard Deviation	1.3%
PHPBench - P.B.S (Score)	502661
Standard Deviation	0.1%
Sunflow Rendering System - G.I.I.S (sec)	3.44
Standard Deviation	0.5%

AIO-Stress 0.21

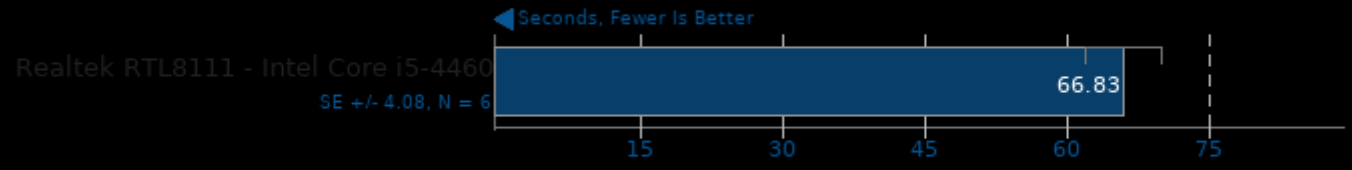
Random Write



1. (CC) gcc options: -pthread -laio

SQLite 3.22

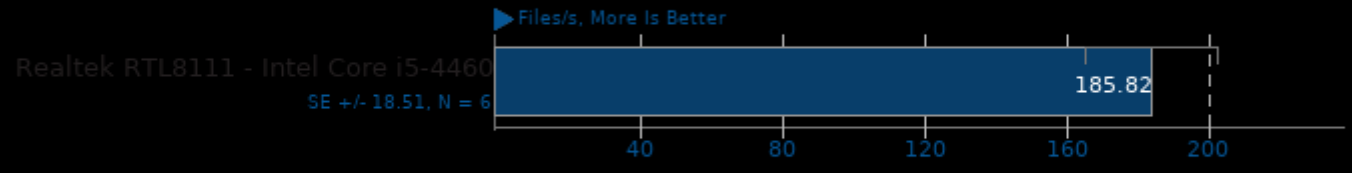
Timed SQLite Insertions



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

FS-Mark 3.3

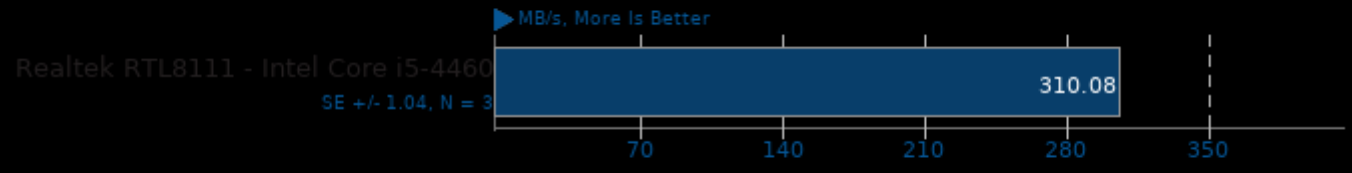
1000 Files, 1MB Size



1. (CC) gcc options: -static

Dbench 4.0

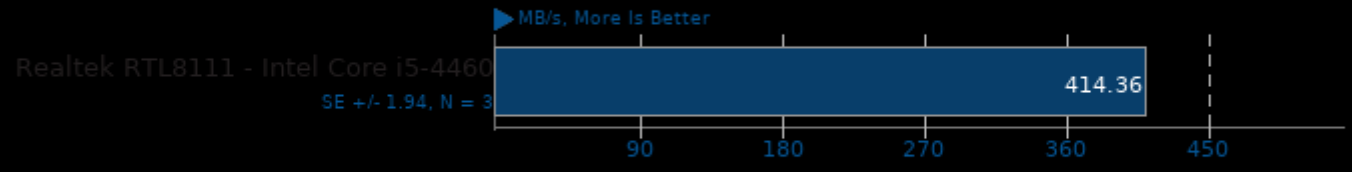
12 Clients



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

Dbench 4.0

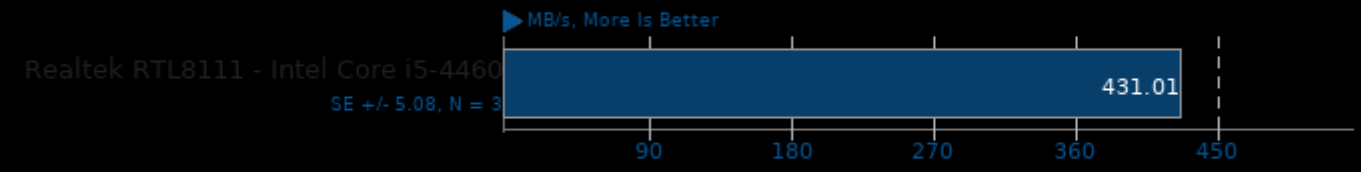
48 Clients



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

Dbench 4.0

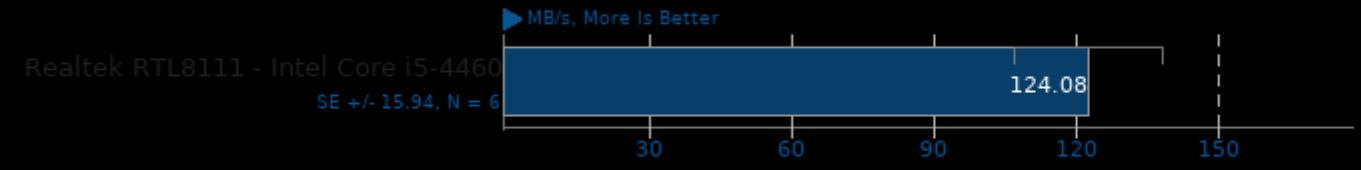
128 Clients



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

Dbench 4.0

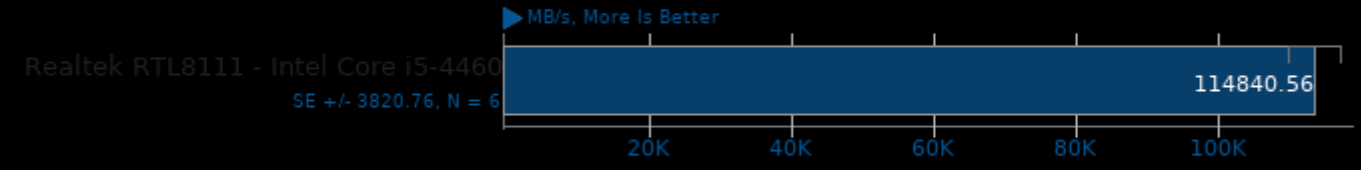
1 Clients



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

Threaded I/O Tester 20170503

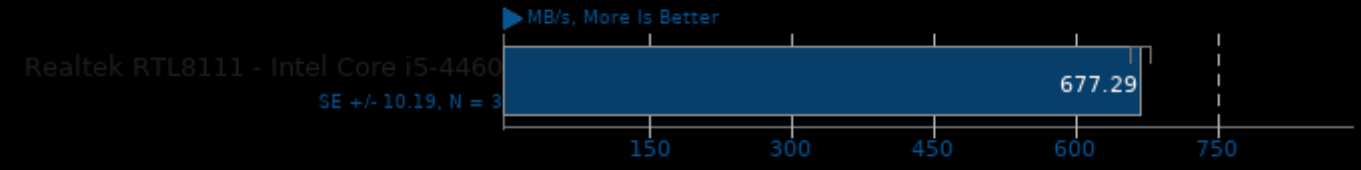
64MB Random Read - 32 Threads



1. (CC) gcc options: -O2

Threaded I/O Tester 20170503

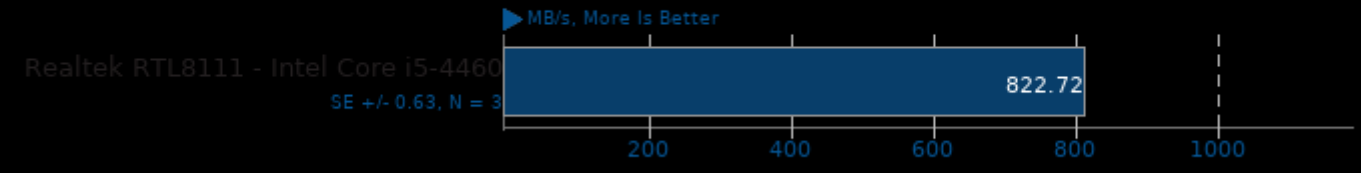
64MB Random Write - 32 Threads



1. (CC) gcc options: -O2

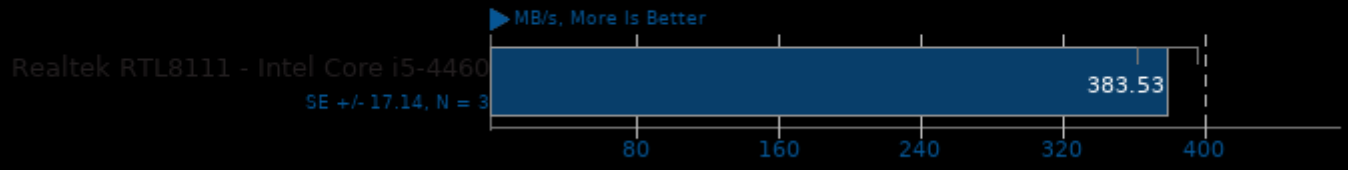
Compile Bench 0.6

Test: Compile



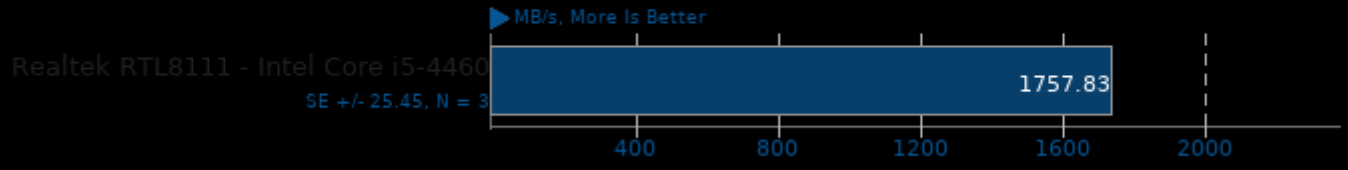
Compile Bench 0.6

Test: Initial Create



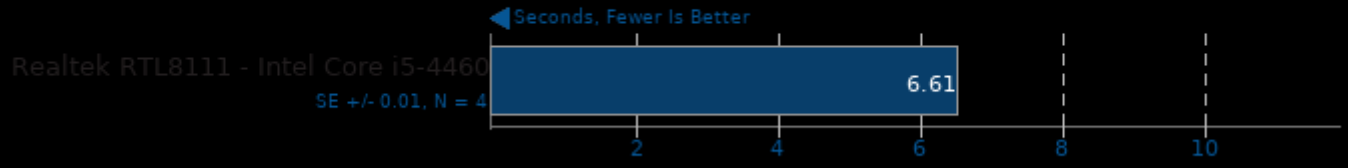
Compile Bench 0.6

Test: Read Compiled Tree



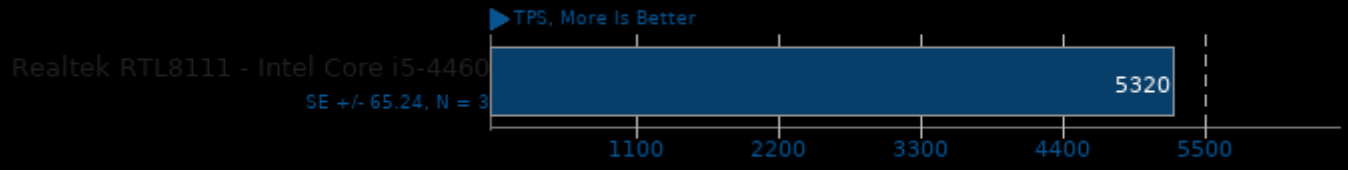
Unpacking The Linux Kernel

linux-4.15.tar.xz



PostMark 1.51

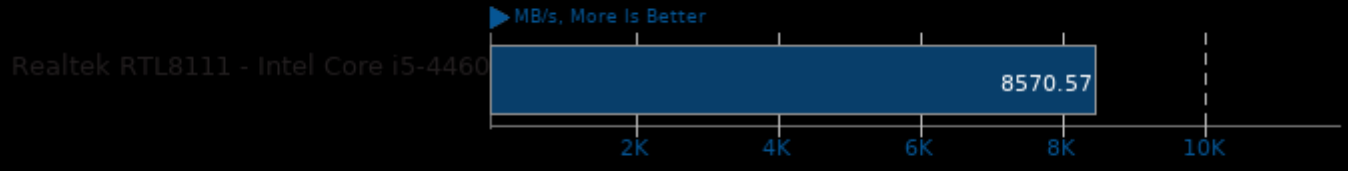
Disk Transaction Performance



1. (CC) gcc options: -O3

RAMspeed SMP 3.5.0

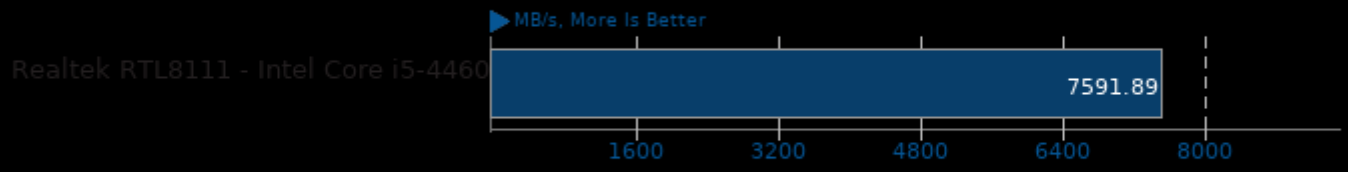
Integer Add



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

RAMspeed SMP 3.5.0

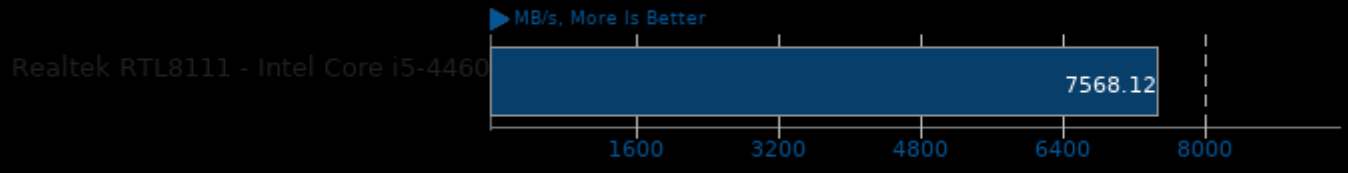
Integer Copy



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

RAMspeed SMP 3.5.0

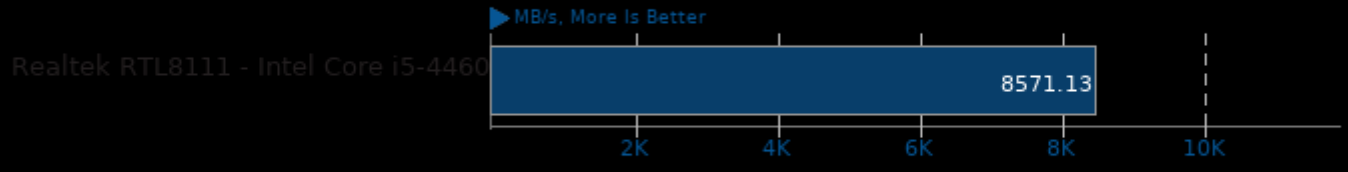
Integer Scale



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

RAMspeed SMP 3.5.0

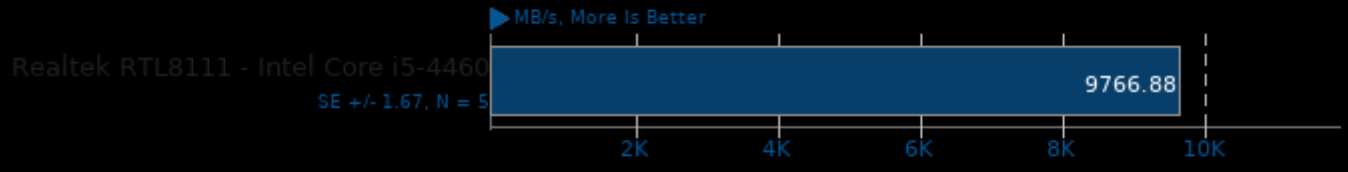
Floating-Point Add



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

Stream 2013-01-17

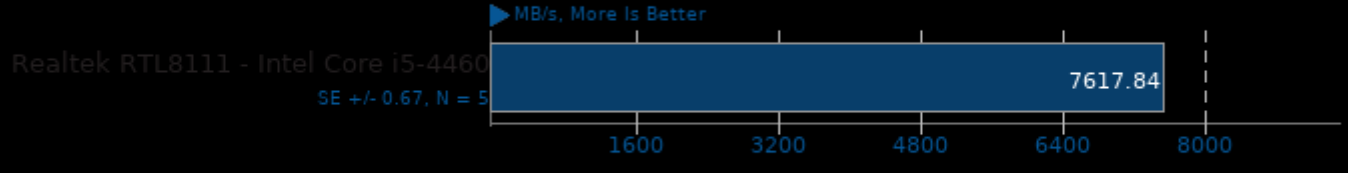
Type: Copy



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

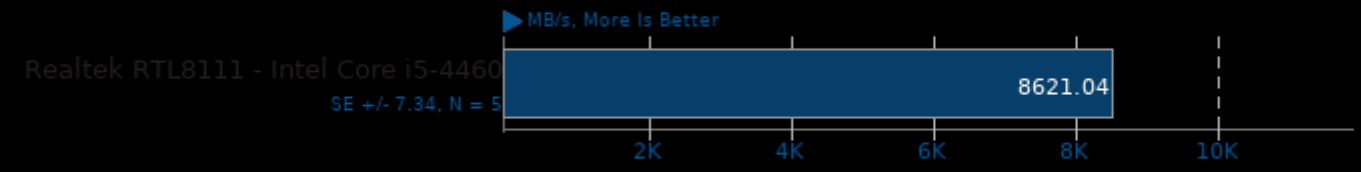
Stream 2013-01-17

Type: Scale



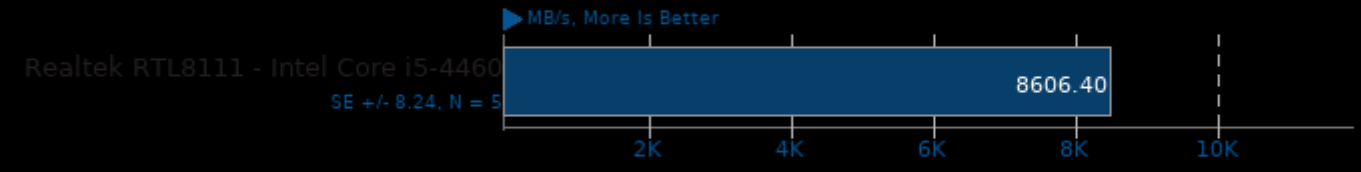
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Type: Triad



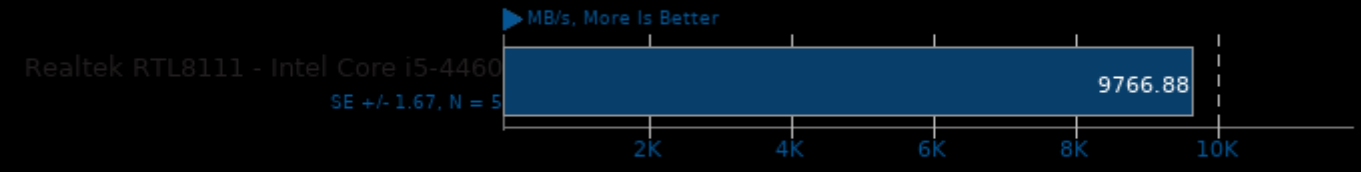
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Add



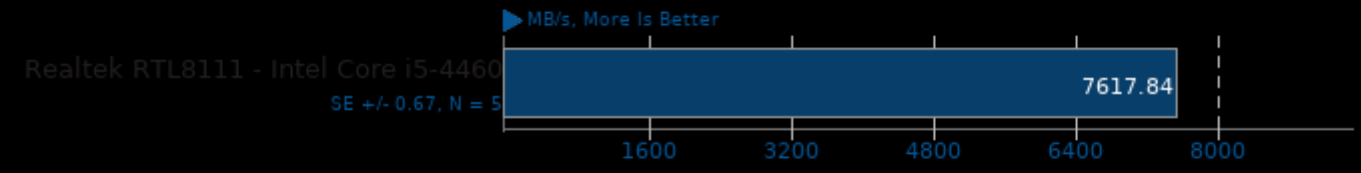
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Copy



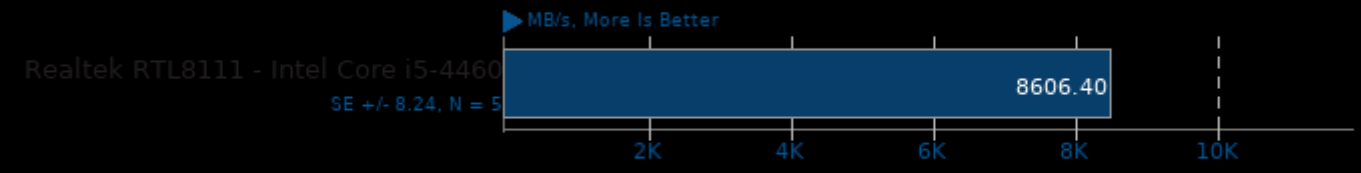
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Scale



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

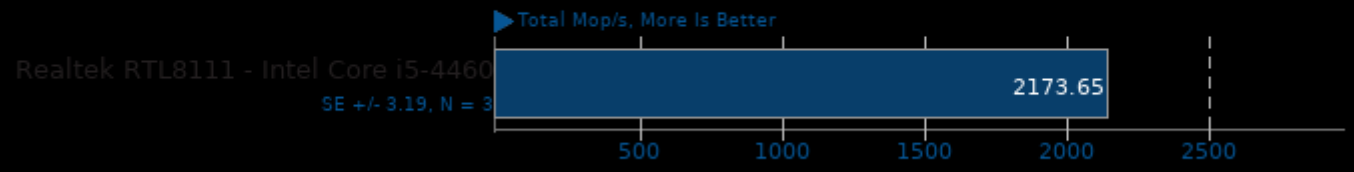
Stream 2013-01-17
Type: Add



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

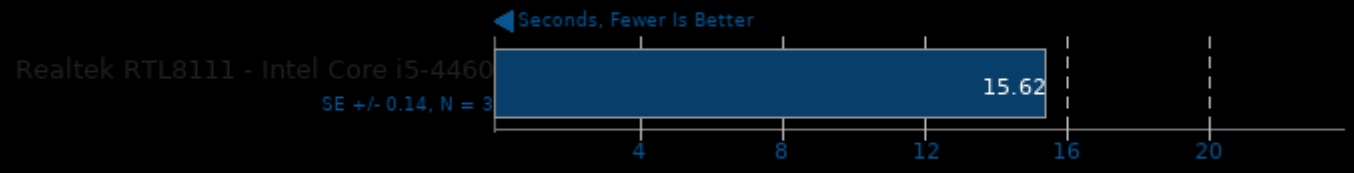
NAS Parallel Benchmarks 3.3

Test / Class: LU.A



Timed HMMer Search 2.3.2

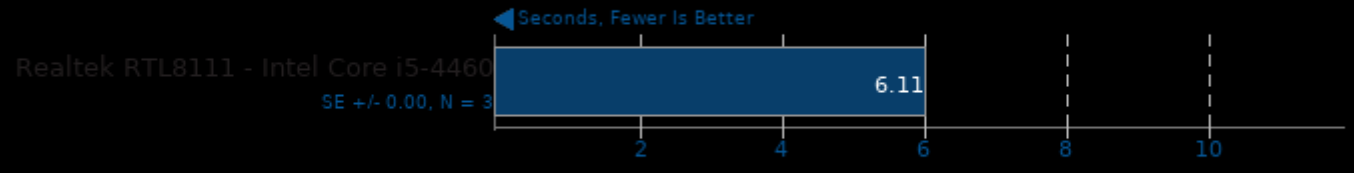
Pfam Database Search



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

Timed MAFFT Alignment 7.392

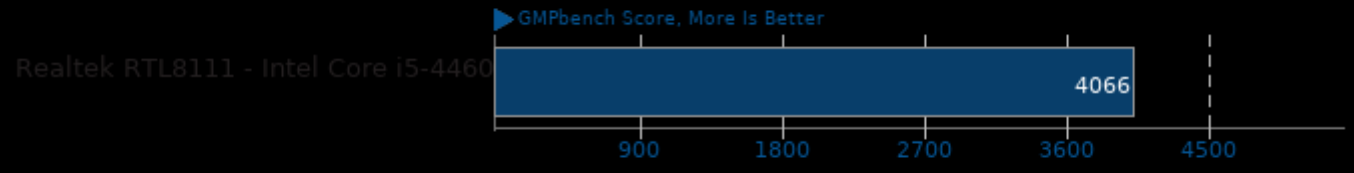
Multiple Sequence Alignment



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

GNU GMP GMPbench 6.1.2

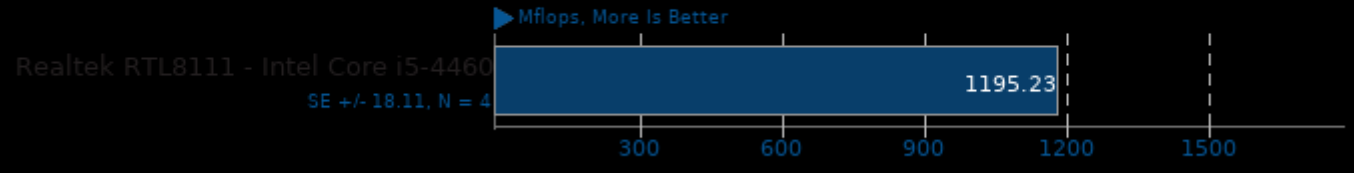
Total Time

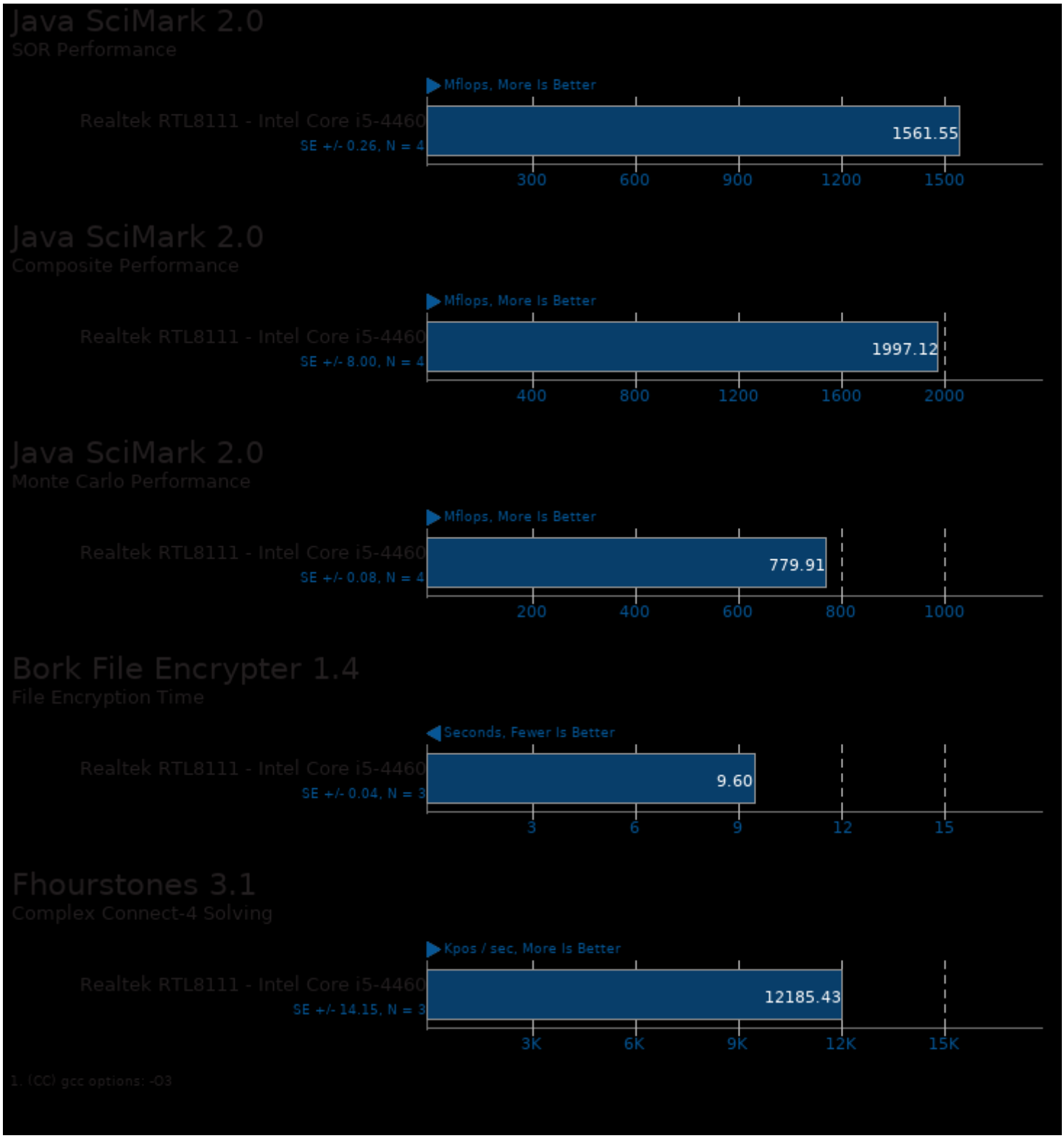


1. (CC) gcc options: -O3 -fomit-frame-pointer -lm

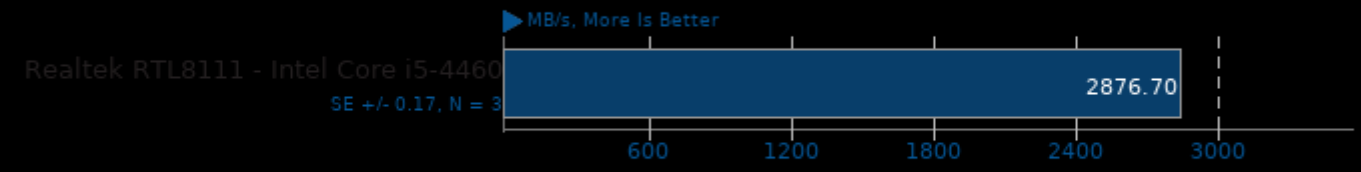
Java SciMark 2.0

FFT Performance



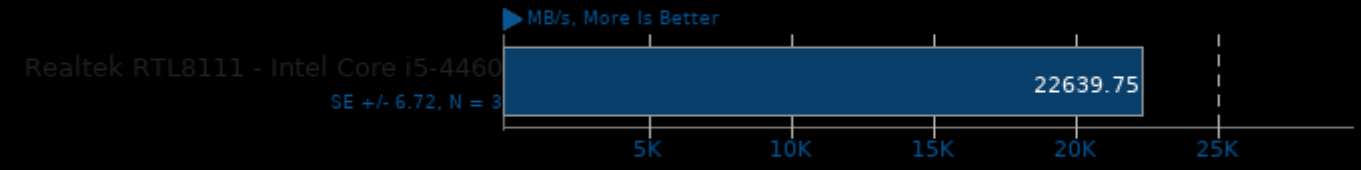

Java SciMark 2.0
SOR Performance
Mflops, More Is Better
Realtek RTL8111 - Intel Core i5-4460
SE +/- 0.26, N = 4
1561.55
300
600
900
1200
1500
Java SciMark 2.0
Composite Performance
Mflops, More Is Better
Realtek RTL8111 - Intel Core i5-4460
SE +/- 8.00, N = 4
1997.12
400
800
1200
1600
2000
Java SciMark 2.0
Monte Carlo Performance
Mflops, More Is Better
Realtek RTL8111 - Intel Core i5-4460
SE +/- 0.08, N = 4
779.91
200
400
600
800
1000
Bork File Encrypter 1.4
File Encryption Time
Seconds, Fewer Is Better
Realtek RTL8111 - Intel Core i5-4460
SE +/- 0.04, N = 3
9.60
3
6
9
12
15
Fhourstones 3.1
Complex Connect-4 Solving
Kpos / sec, More Is Better
Realtek RTL8111 - Intel Core i5-4460
SE +/- 14.15, N = 3
12185.43
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3

CacheBench
Read Cache



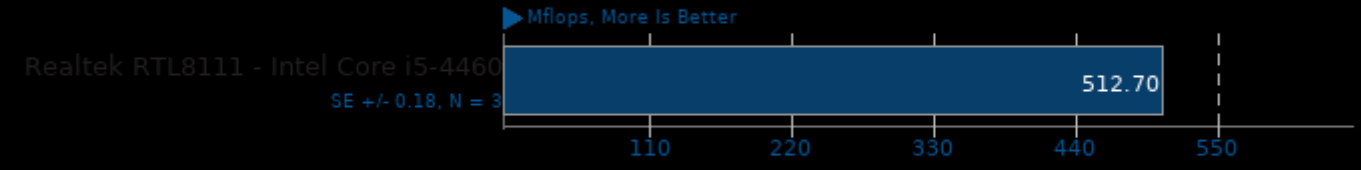
1. (CC) gcc options: -lrt

CacheBench
Write Cache



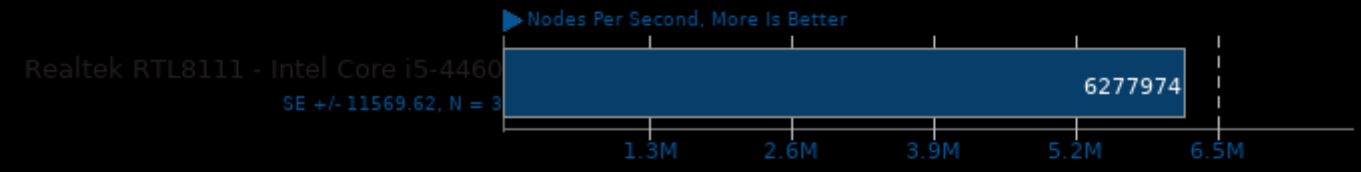
1. (CC) gcc options: -lrt

SciMark 2.0
Composite



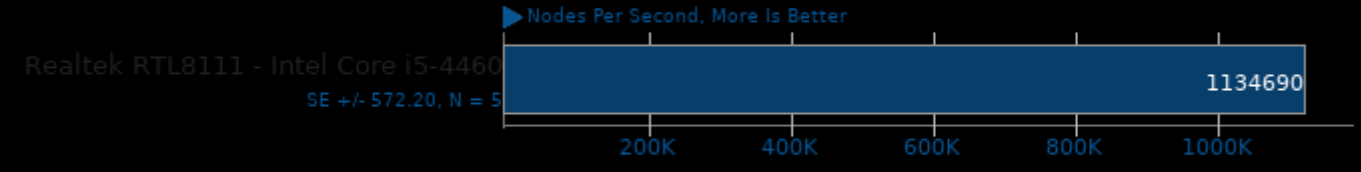
1. (CC) gcc options: -lm

Crafty 25.2
Elapsed Time



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

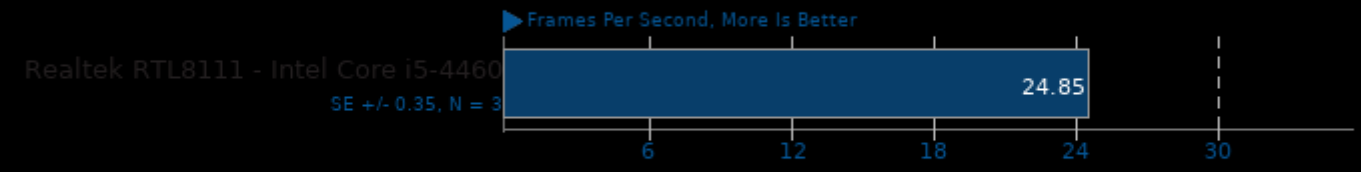
TSCP 1.81
AI Chess Performance



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

x264 2018-02-05

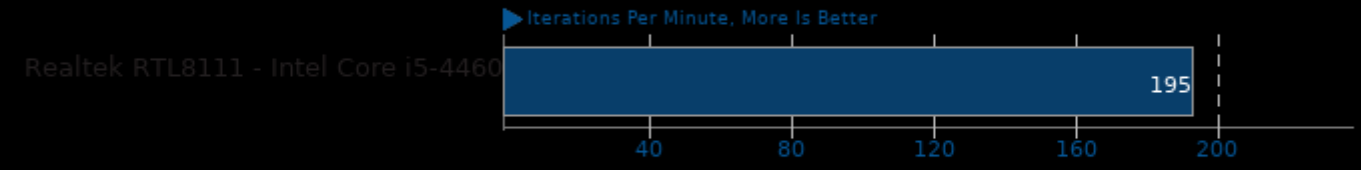
H.264 Video Encoding



1. (CC) gcc options: -ldl -lavformat -lavcodec -lavutil -lswscale -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectori

GraphicsMagick 1.3.28

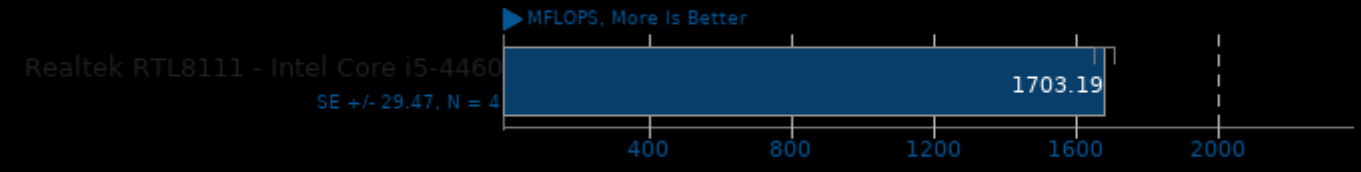
Operation: HWB Color Space



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

Himeno Benchmark 3.0

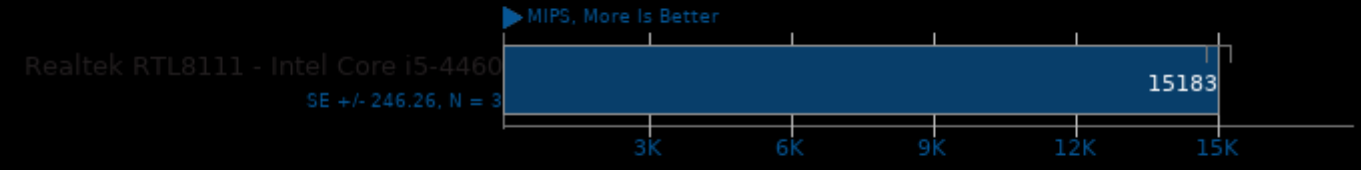
Poisson Pressure Solver



1. (CC) gcc options: -O3 -mavx2

7-Zip Compression 16.02

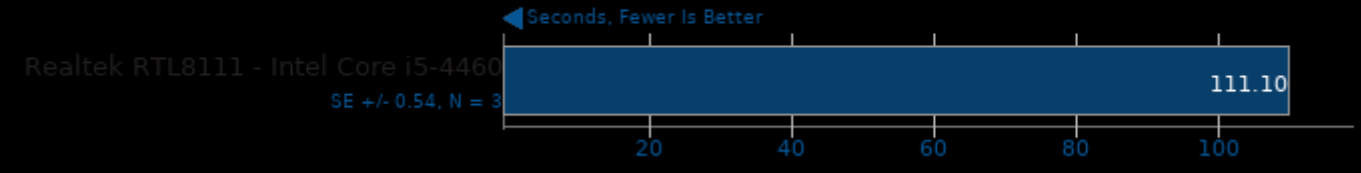
Compress Speed Test



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

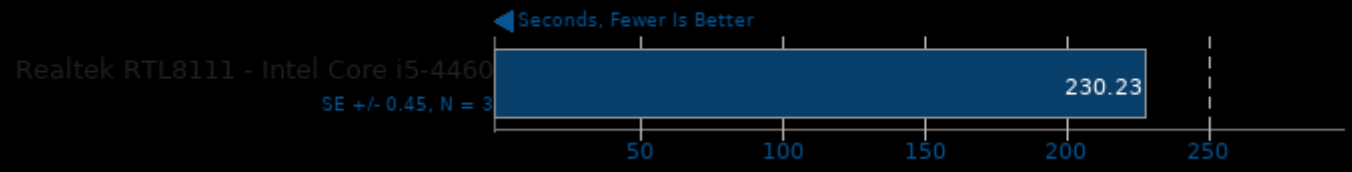
Timed ImageMagick Compilation 6.9.0

Time To Compile



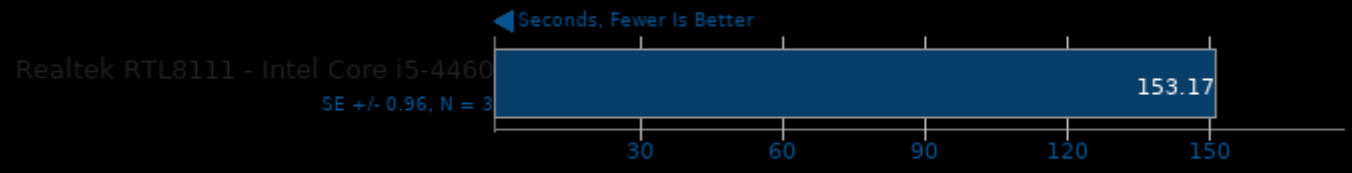
Timed Linux Kernel Compilation 4.13

Time To Compile



Timed PHP Compilation 7.1.9

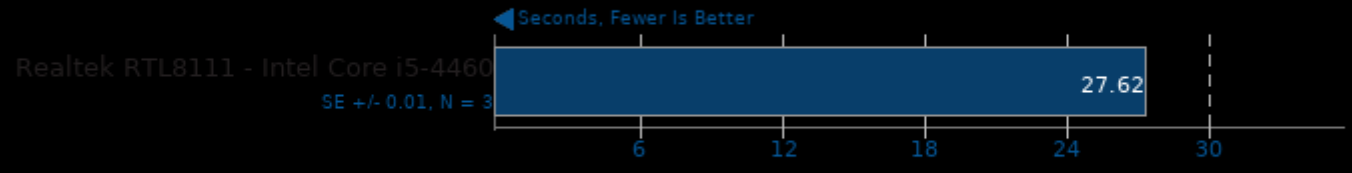
Time To Compile



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

C-Ray 1.1

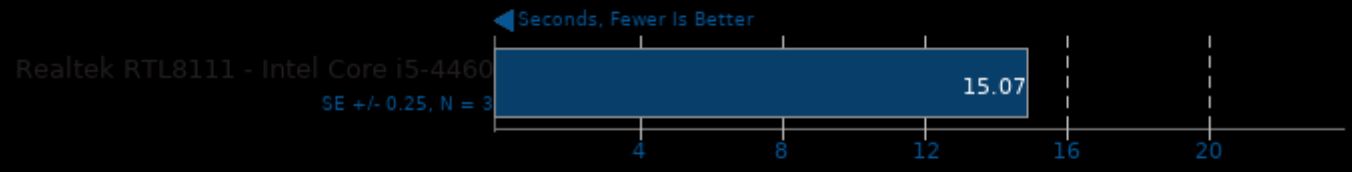
Total Time



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

Parallel BZIP2 Compression 1.1.12

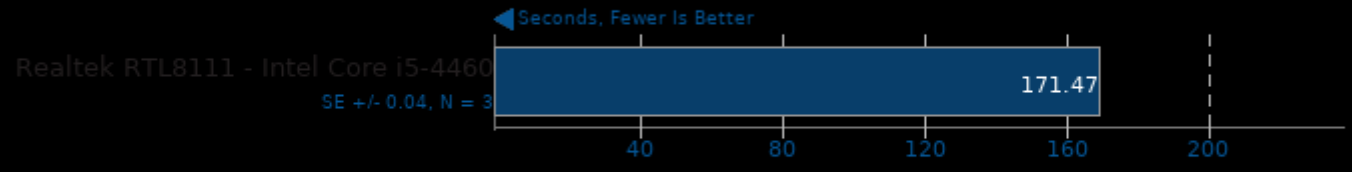
256MB File Compression



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

POV-Ray 3.7.0.7

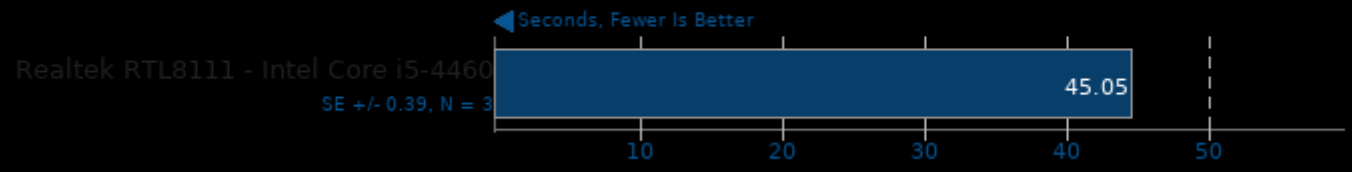
Trace Time



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

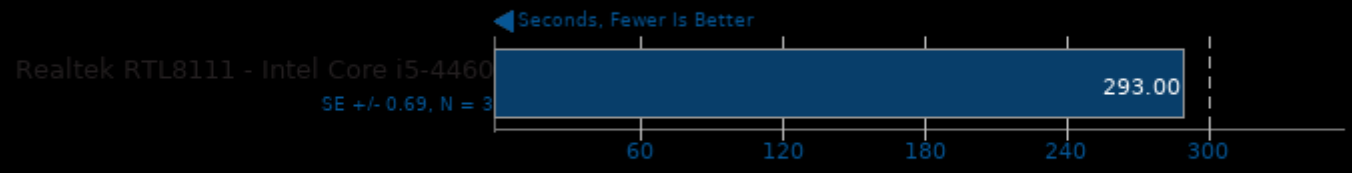
Gzip Compression

Linux Source Tree Archiving To .tar.gz



LZMA Compression

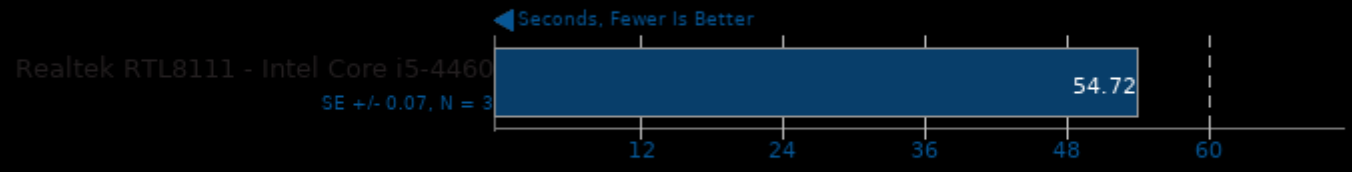
256MB File Compression



1. (CXX) g++ options: -O2

dcraw

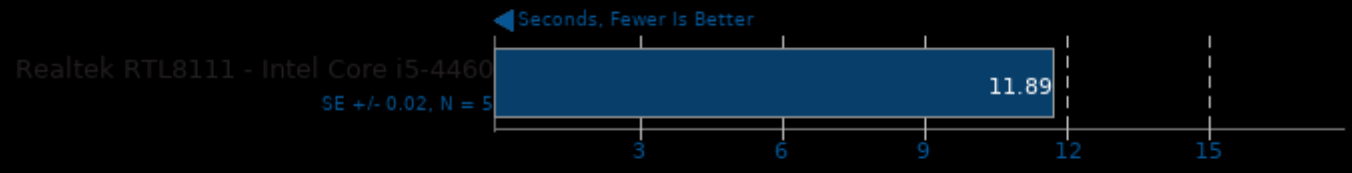
RAW To PPM Image Conversion



1. (CC) gcc options: -lm

FLAC Audio Encoding 1.3.2

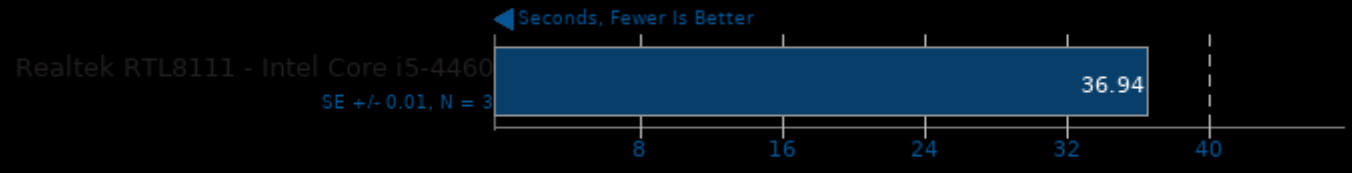
WAV To FLAC



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

LAME MP3 Encoding 3.100

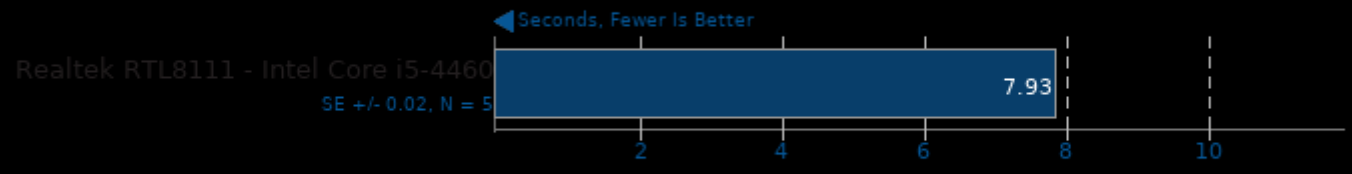
WAV To MP3



1. (CC) gcc options: -lncurses -lm

WavPack Audio Encoding 5.1

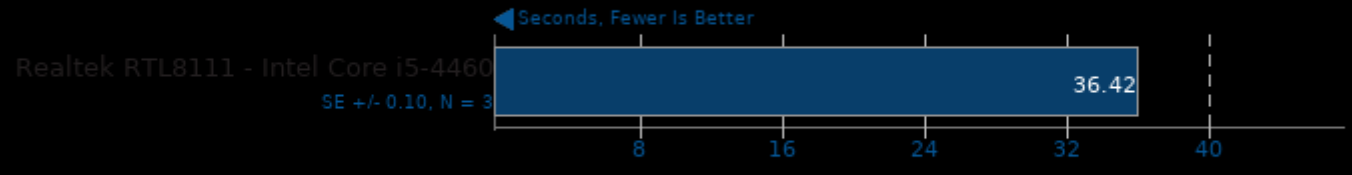
WAV To WavPack



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

eSpeak Speech Engine 1.48.04

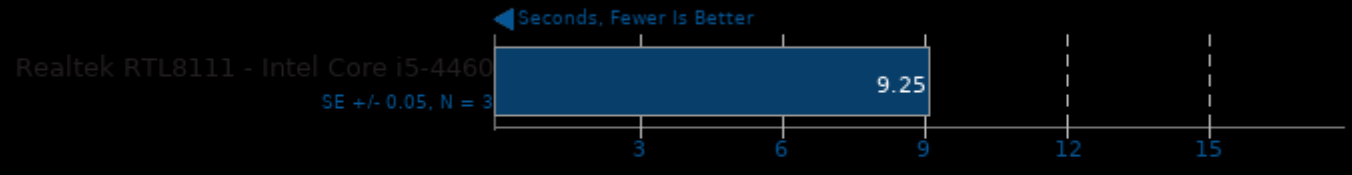
Text-To-Speech Synthesis



1. (CXX) g++ options: -lstdc++ -lespeak -O2 -fpic -fvisibility=hidden -pedantic -fno-exceptions

FFmpeg 3.4.1

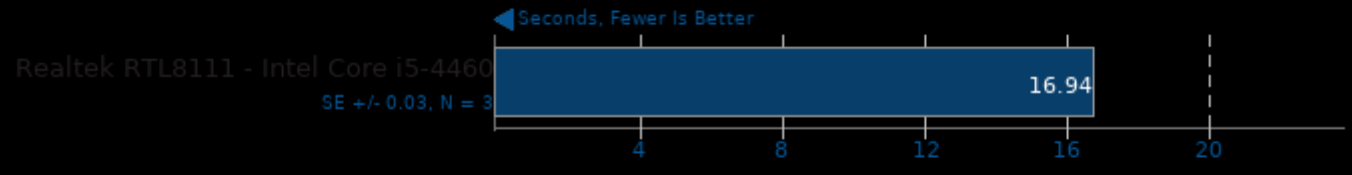
H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lXv -lX11 -lXext -pthread -lSDL2 -lvdpau -lva -lva-x11 -lva-drm

GnuPG 1.4.22

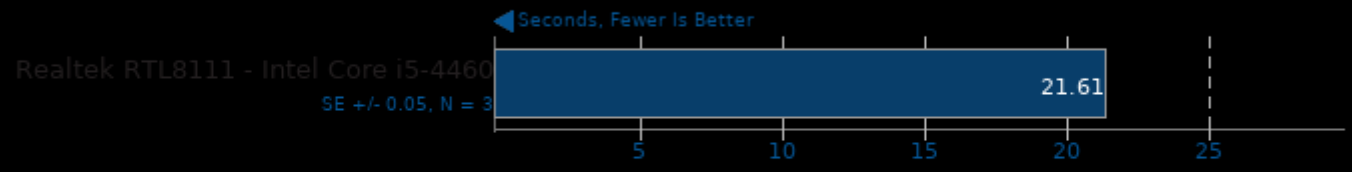
2GB File Encryption



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

Mencoder 1.3.0

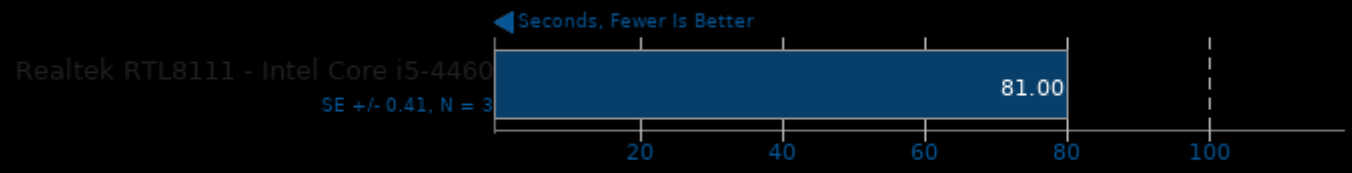
AVI To LAVC



1. (CC) gcc options: -ffast-math -fpie -pie -lncurses -lrt -lgnutls -lsmbclient -lpng -lz -ljpeg -lgif -lasound -ldl -lpthread -lbluray -ldvdread -lcdio_cdda -lcdio

Minion 1.8

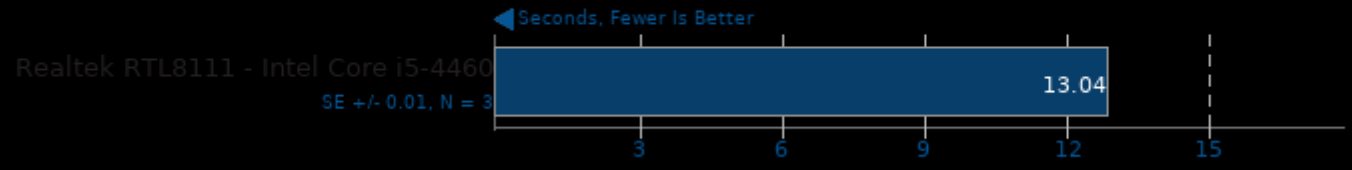
Solitaire



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

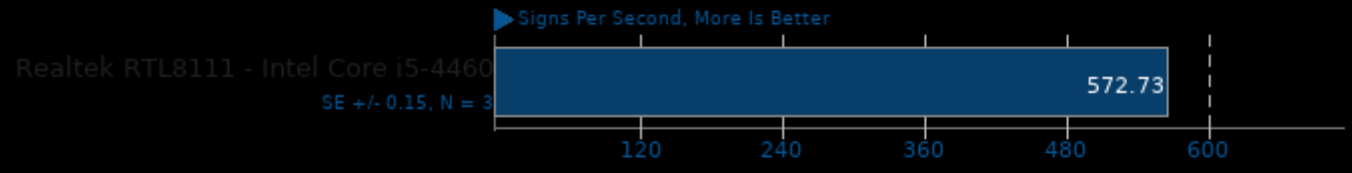
Sudokut 0.4

Total Time



OpenSSL 1.1.0f

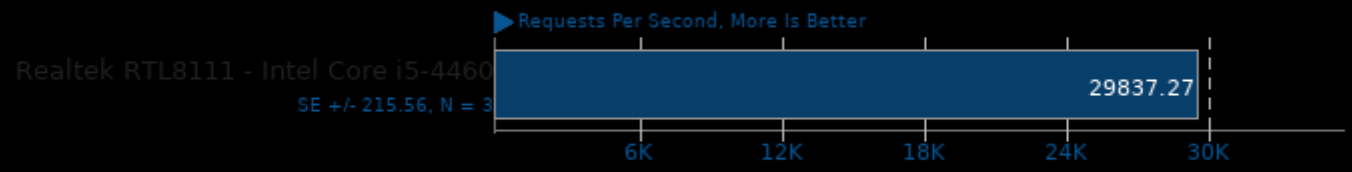
RSA 4096-bit Performance



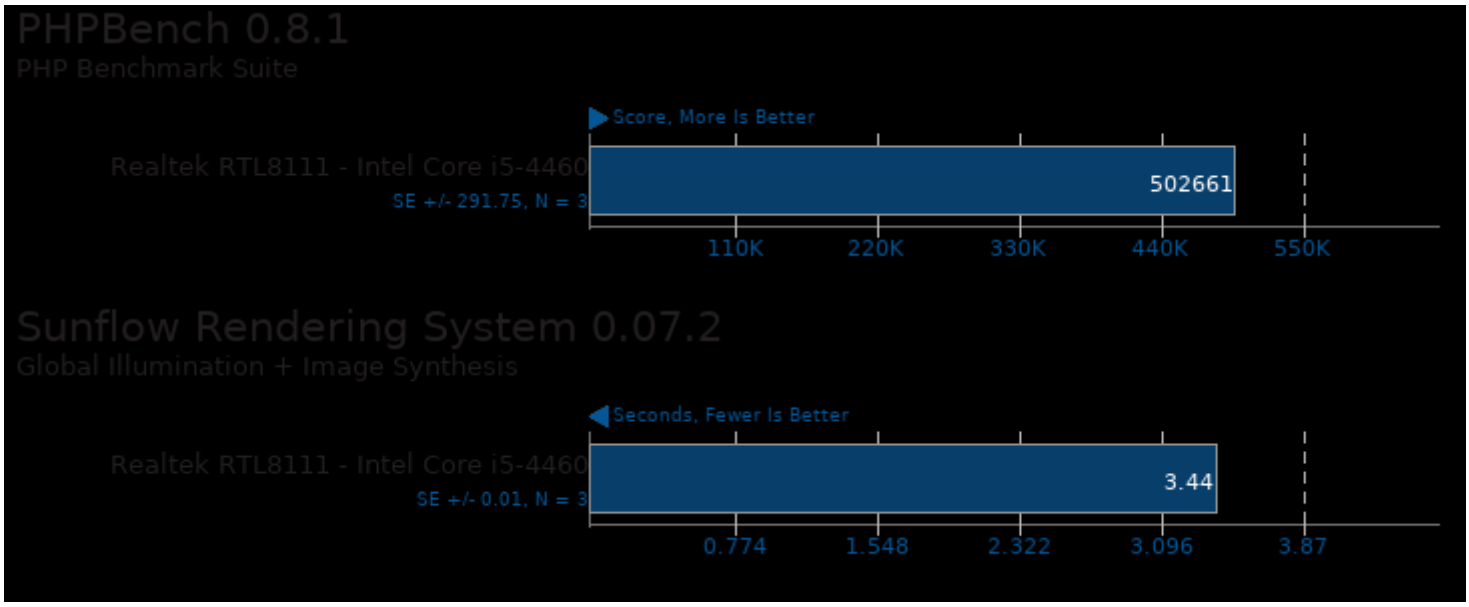
1. (CC) gcc options: -O3 -pthread -m64 -lssl -lcrypto -ldl

Apache Benchmark 2.4.29

Static Web Page Serving



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



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