

www.phoronix-test-suite.com

KDESL

Intel Core i7-6600U testing with a SLIMBOOK KATANA and Intel HD 520 (Skylake GT2) 3072MB on neon 16.04 via the Phoronix Test Suite.

Test Systems:

KDE-Slimbook ootb

Processor: Intel Core i7-6600U @ 3.40GHz (4 Cores), Motherboard: SLIMBOOK KATANA, Chipset: Intel Sky Lake, Memory: 8192MB, Disk: 120GB KINGSTON SMS200S, Graphics: Intel HD 520 (Skylake GT2) 3072MB (1050MHz), Audio: Realtek ALC269VB, Network: Realtek RTL8101/2/6E + Intel Wireless 7265

OS: neon 16.04, Kernel: 4.8.0-46-generic (x86_64), Desktop: KDE Frameworks 5, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.3 Mesa 12.0.6, Compiler: GCC 5.4.0 20160609, 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,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

KDESL

--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: NOOP / data=ordered,errors=remount-ro,inode_readahead_blks=64,noatime,nobarrier,nodelalloc,rw
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Python 2.7.12.

	KDE-Slimbook ootb
SQLite - T.S.I (sec)	3.26
Standard Deviation	4.7%
FS-Mark - 1.F.1.S (Files/s)	184.03
Standard Deviation	3%
IOzone - 8.R.P (MB/s)	412.63
Standard Deviation	8.2%
IOzone - 8.W.P (MB/s)	444.83
Standard Deviation	3.1%
IOzone - 4GB - Read Performance (MB/s)	2370
Standard Deviation	90.7%
IOzone - 4GB - Write Performance (MB/s)	409.85
Standard Deviation	0%
Compile Bench - Compile (MB/s)	575.10
Standard Deviation	3.7%
Compile Bench - Initial Create (MB/s)	197.67
Standard Deviation	5.1%
Compile Bench - Read Compiled Tree (MB/s)	711.16
Standard Deviation	1.6%
PostMark - D.T.P (TPS)	1637
Standard Deviation	0.4%
QGears2 - OpenGL + Gears (FPS)	359.09
Standard Deviation	2.6%
QGears2 - XRender + Text (FPS)	208.90
Standard Deviation	1%
QGears2 - XRender + Gears (FPS)	113.70
Standard Deviation	0.1%
QGears2 - O.I.S (FPS)	1443
Standard Deviation	1.4%
QGears2 - X.I.S (FPS)	957.45
Standard Deviation	0.5%
Nexuiz - 1920 x 1080 (FPS)	35.79
Standard Deviation	0.3%
OpenArena - 1920 x 1080 (FPS)	21.60
Standard Deviation	0%
World of Padman - 1920 x 1080 (FPS)	82.40
Standard Deviation	0.4%
Unigine Heaven - 1920 x 1080 (FPS)	17.61
Standard Deviation	0.6%
Urban Terror - 1920 x 1080 (FPS)	48.80
Standard Deviation	1.8%
RAMspeed SMP - Integer Add (MB/s)	7339
RAMspeed SMP - Integer Copy (MB/s)	7684
RAMspeed SMP - Integer Scale (MB/s)	7507

KDESL

RAMspeed SMP - Floating-Point Add (MB/s)	8443
Stream - Copy (MB/s)	10437
Standard Deviation	2.4%
Stream - Scale (MB/s)	7473
Standard Deviation	2.5%
Stream - Triad (MB/s)	8496
Standard Deviation	2.5%
Stream - Add (MB/s)	8483
Standard Deviation	2.5%
Stream - Copy (MB/s)	10437
Standard Deviation	2.4%
Stream - Scale (MB/s)	7473
Standard Deviation	2.5%
Stream - Add (MB/s)	8483
Standard Deviation	2.5%
Loopback TCP Network Performance - T.T.T.1.V.L (sec)	18.57
Standard Deviation	0.5%
Timed HMMer Search - P.D.S (sec)	31.68
Standard Deviation	0.2%
Timed MAFFT Alignment - M.S.A (sec)	19.29
Standard Deviation	0.1%
Timed MrBayes Analysis - P.P.A (sec)	63.03
Standard Deviation	1.3%
Java SciMark - FFT Performance (Mflops)	649.20
Standard Deviation	3.3%
Java SciMark - SOR Performance (Mflops)	615.54
Standard Deviation	0.1%
Java SciMark - C.P (Mflops)	1049
Standard Deviation	1.3%
Java SciMark - M.C.P (Mflops)	417.00
Standard Deviation	0.5%
Bork File Encrypter - F.E.T (sec)	17.58
Standard Deviation	7.2%
Fhourstones - C.C.4.S (Kpos / sec)	6494
Standard Deviation	0.1%
BYTE Unix Benchmark - Dhrystone 2 (LPS)	14441872
Standard Deviation	2%
CacheBench - Read Cache (MB/s)	1171
Standard Deviation	0.8%
CacheBench - Write Cache (MB/s)	5453
Standard Deviation	2.4%
SciMark - Composite (Mflops)	398.60
Standard Deviation	0.1%
TSCP - A.C.P (Nodes/s)	574206
Standard Deviation	0.2%
John The Ripper - Blowfish (Real C/S)	1683
Standard Deviation	0.2%
John The Ripper - Traditional DES (Real C/S)	4441333
Standard Deviation	0.3%
John The Ripper - Blowfish (Real C/S)	1683
Standard Deviation	0.1%
John The Ripper - MD5 (Real C/S)	21146
Standard Deviation	0.2%

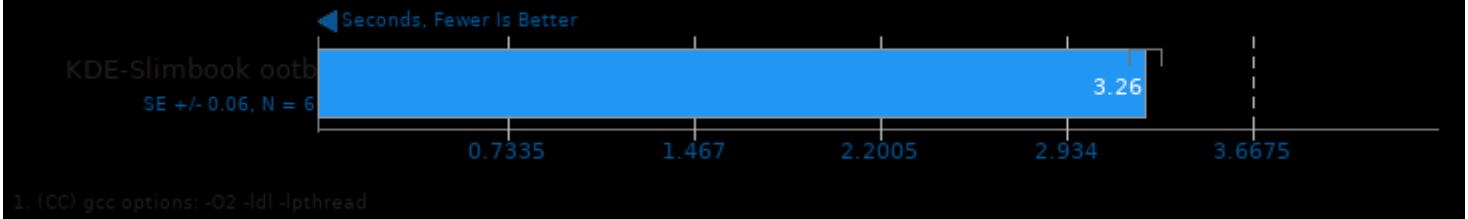
KDESL

Himeno Benchmark - P.P.S (MFLOPS)	1077
Standard Deviation	0.3%
7-Zip Compression - C.S.T (MIPS)	6073
Standard Deviation	1%
Timed ImageMagick Compilation - Time To Compile (sec)	157.22
Standard Deviation	0.1%
Timed Linux Kernel Compilation - Time To Compile (sec)	420.74
Standard Deviation	1.6%
Timed MPlayer Compilation - Time To Compile (sec)	138.94
Standard Deviation	1.7%
Timed PHP Compilation - Time To Compile (sec)	75.71
Standard Deviation	0.1%
C-Ray - Total Time (sec)	105.43
Standard Deviation	1%
Parallel BZIP2 Compression - 2.F.C (sec)	37.39
Standard Deviation	1.7%
Gzip Compression - 2.F.C (sec)	22.42
Standard Deviation	0.2%
LZMA Compression - 2.F.C (sec)	545.95
Standard Deviation	0.2%
Crafty - Elapsed Time (sec)	147.75
Standard Deviation	0.2%
dcraw - R.T.P.I.C (sec)	98.08
Standard Deviation	0.6%
Monkey Audio Encoding - WAV To APE (sec)	18.43
Standard Deviation	0.7%
FLAC Audio Encoding - WAV To FLAC (sec)	11.79
Standard Deviation	0.1%
LAME MP3 Encoding - WAV To MP3 (sec)	25.71
Standard Deviation	0.3%
WavPack Audio Encoding - WAV To WavPack (sec)	17.10
Standard Deviation	0.4%
Sudokut - Total Time (sec)	24.60
Standard Deviation	0.1%
PHPBench - P.B.S (Score)	217131
Standard Deviation	0.8%
Sunflow Rendering System - G.I.I.S (sec)	9.65
Standard Deviation	1.5%

KDESL

SQLite 3.8.10.2

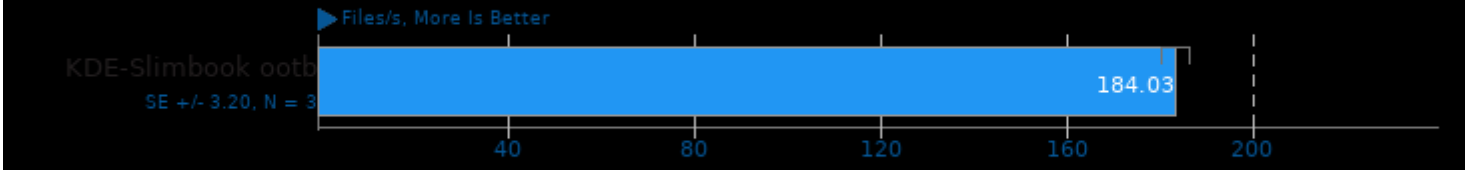
Timed SQLite Insertions



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

FS-Mark 3.3

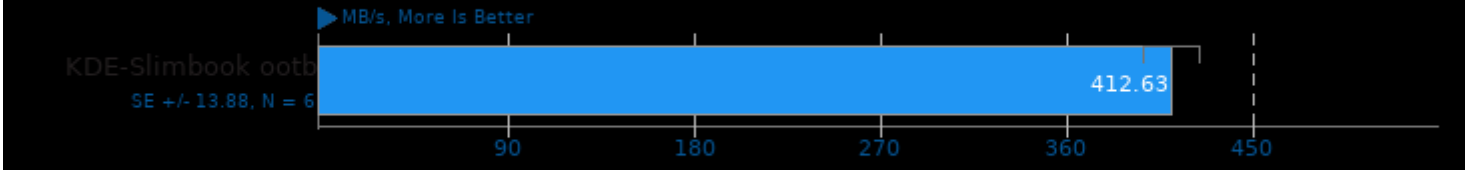
1000 Files, 1MB Size



1. (CC) gcc options: -static

IOzone 3.405

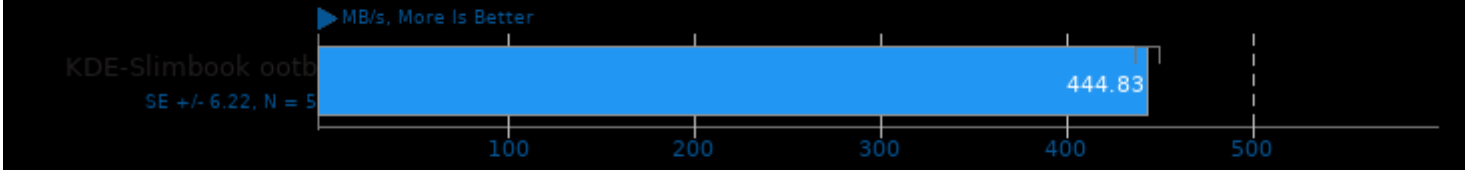
8GB Read Performance



1. (CC) gcc options: -O3

IOzone 3.405

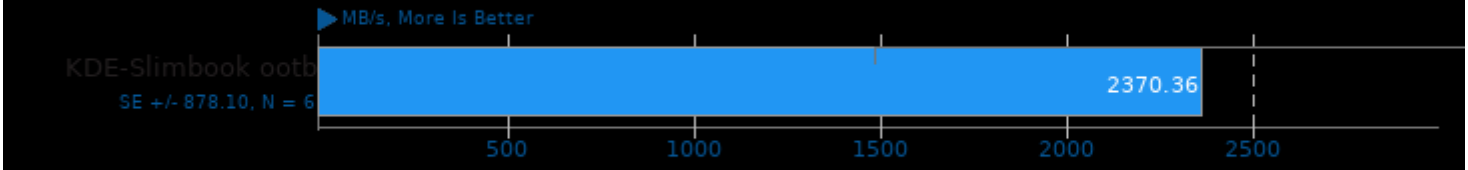
8GB Write Performance



1. (CC) gcc options: -O3

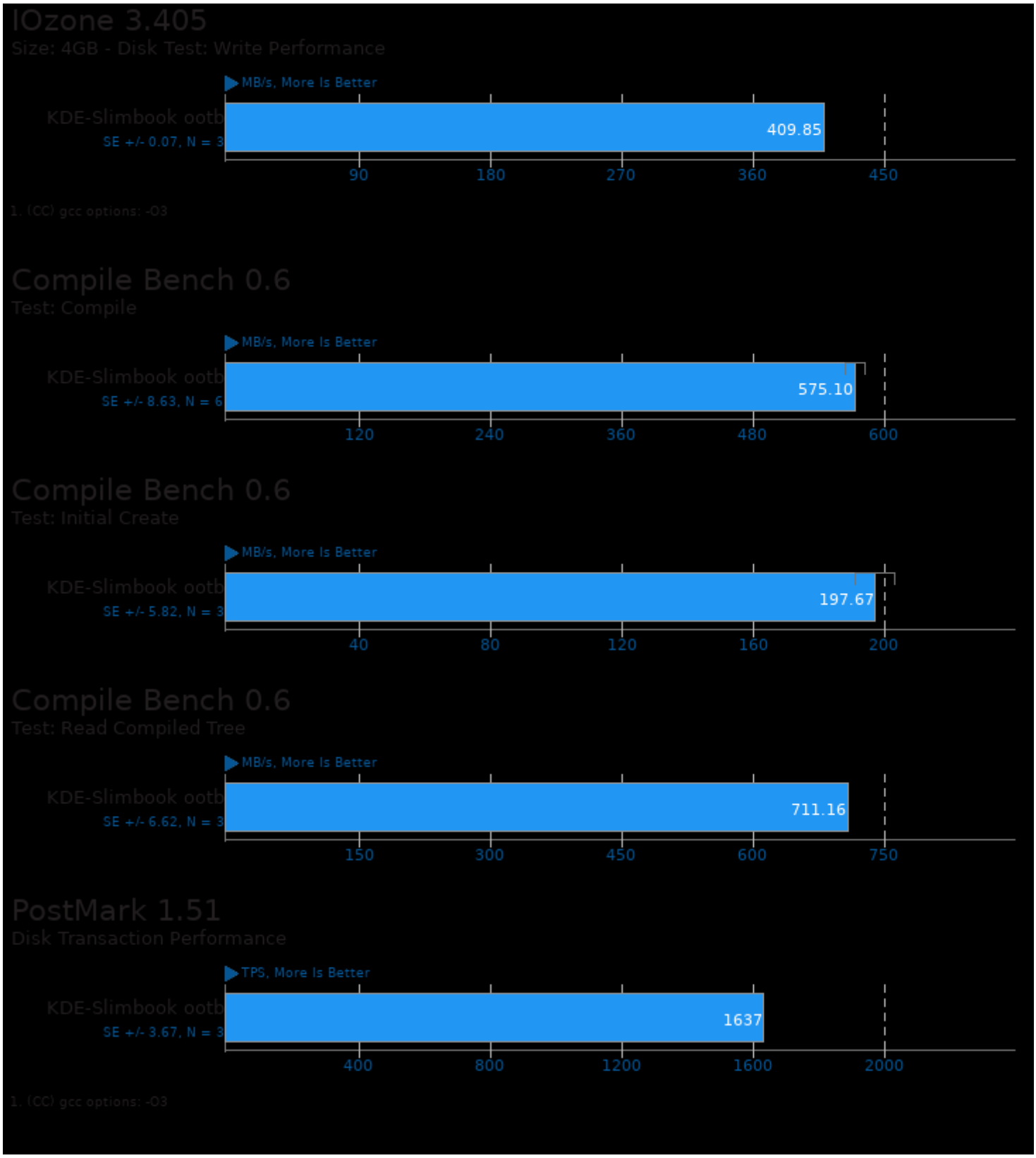
IOzone 3.405

Size: 4GB - Disk Test: Read Performance

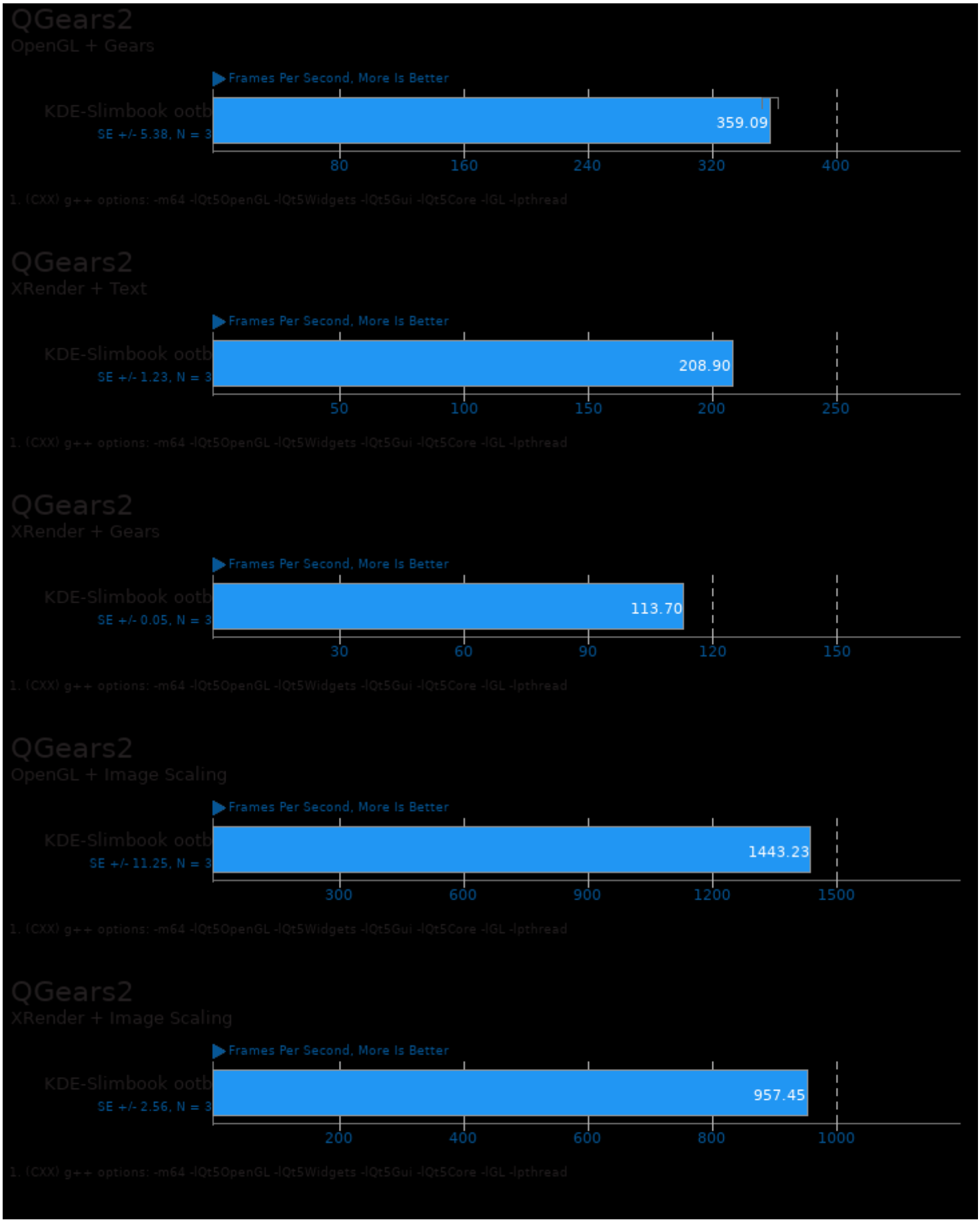


1. (CC) gcc options: -O3

KDESL


IOzone 3.405
Size: 4GB - Disk Test: Write Performance
MB/s, More Is Better
KDE-Slimbook ootb
SE +/- 0.07, N = 3
409.85
90
180
270
360
450
1. (CC) gcc options: -O3
Compile Bench 0.6
Test: Compile
MB/s, More Is Better
KDE-Slimbook ootb
SE +/- 8.63, N = 6
575.10
120
240
360
480
600
Compile Bench 0.6
Test: Initial Create
MB/s, More Is Better
KDE-Slimbook ootb
SE +/- 5.82, N = 3
197.67
40
80
120
160
200
Compile Bench 0.6
Test: Read Compiled Tree
MB/s, More Is Better
KDE-Slimbook ootb
SE +/- 6.62, N = 3
711.16
150
300
450
600
750
PostMark 1.51
Disk Transaction Performance
TPS, More Is Better
KDE-Slimbook ootb
SE +/- 3.67, N = 3
1637
400
800
1200
1600
2000
1. (CC) gcc options: -O3

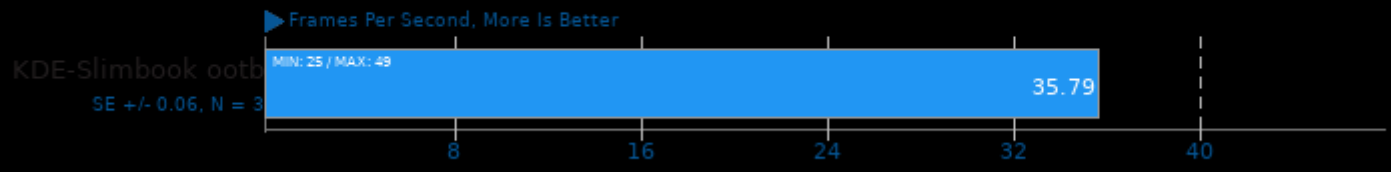
KDESL


QGears2
OpenGL + Gears
Frames Per Second, More Is Better
KDE-Slimbook ootb
SE +/- 5.38, N = 3
359.09
80
160
240
320
400
1. (CXX) g++ options: -m64 -lQt5OpenGL -lQt5Widgets -lQt5Gui -lQt5Core -lGL -lpthread
QGears2
XRender + Text
Frames Per Second, More Is Better
KDE-Slimbook ootb
SE +/- 1.23, N = 3
208.90
50
100
150
200
250
1. (CXX) g++ options: -m64 -lQt5OpenGL -lQt5Widgets -lQt5Gui -lQt5Core -lGL -lpthread
QGears2
XRender + Gears
Frames Per Second, More Is Better
KDE-Slimbook ootb
SE +/- 0.05, N = 3
113.70
30
60
90
120
150
1. (CXX) g++ options: -m64 -lQt5OpenGL -lQt5Widgets -lQt5Gui -lQt5Core -lGL -lpthread
QGears2
OpenGL + Image Scaling
Frames Per Second, More Is Better
KDE-Slimbook ootb
SE +/- 11.25, N = 3
1443.23
300
600
900
1200
1500
1. (CXX) g++ options: -m64 -lQt5OpenGL -lQt5Widgets -lQt5Gui -lQt5Core -lGL -lpthread
QGears2
XRender + Image Scaling
Frames Per Second, More Is Better
KDE-Slimbook ootb
SE +/- 2.56, N = 3
957.45
200
400
600
800
1000
1. (CXX) g++ options: -m64 -lQt5OpenGL -lQt5Widgets -lQt5Gui -lQt5Core -lGL -lpthread

KDESL

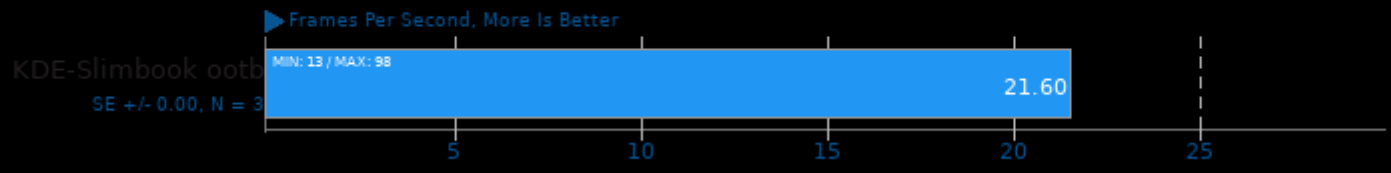
Nexuiz 2.5.2

1920 x 1080



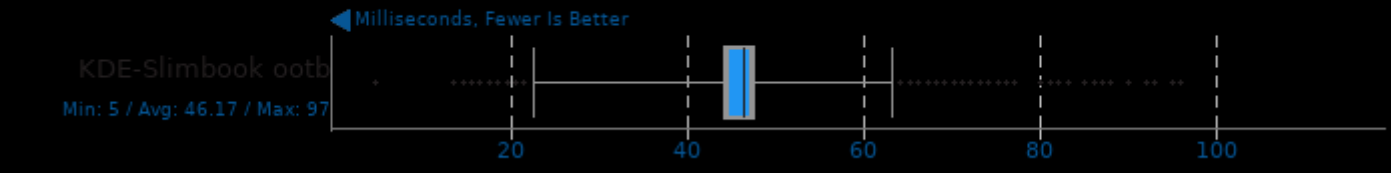
OpenArena 0.8.8

1920 x 1080



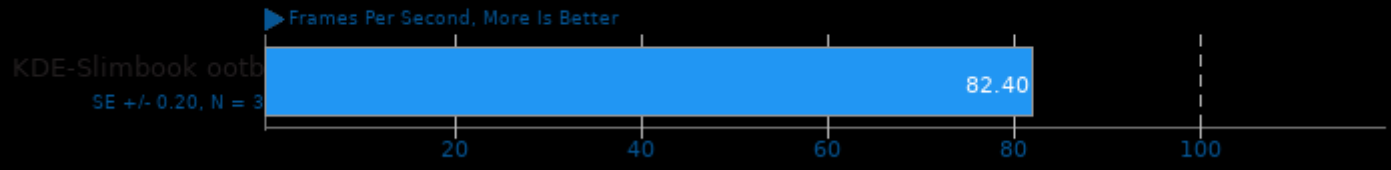
OpenArena 0.8.8

1920 x 1080 - Total Frame Time



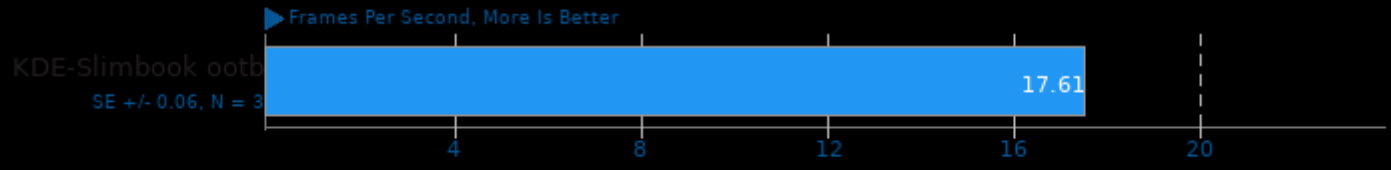
World of Padman 1.2

1920 x 1080



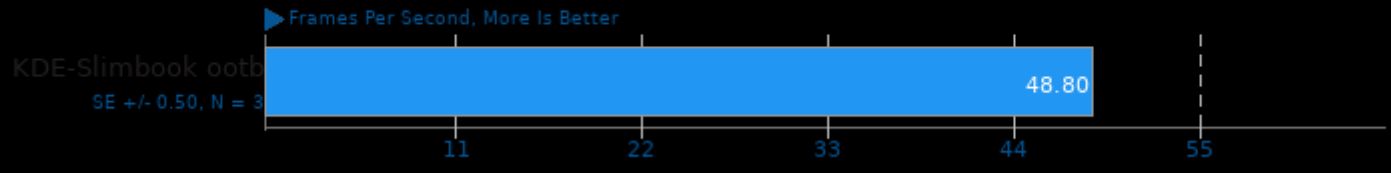
Unigine Heaven 4.0

1920 x 1080



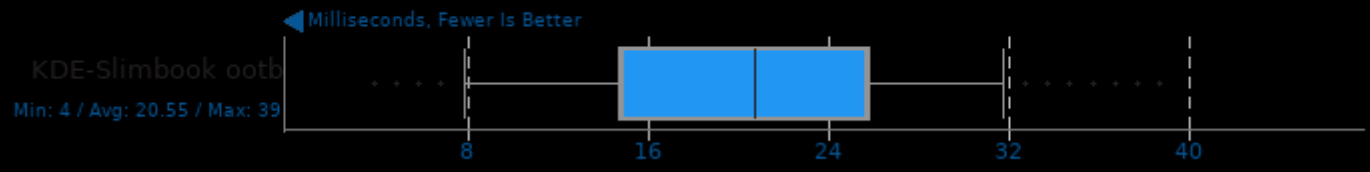
Urban Terror 4.2.013

1920 x 1080



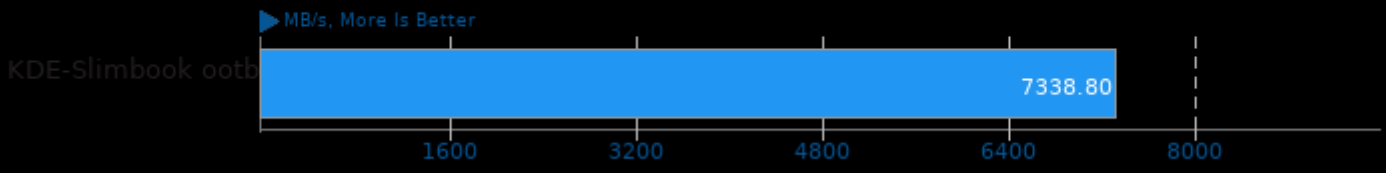
Urban Terror 4.2.013

1920 x 1080 - Total Frame Time



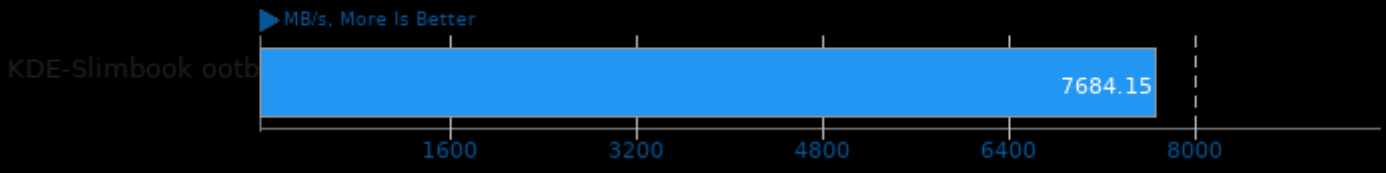
RAMspeed SMP 3.5.0

Integer Add



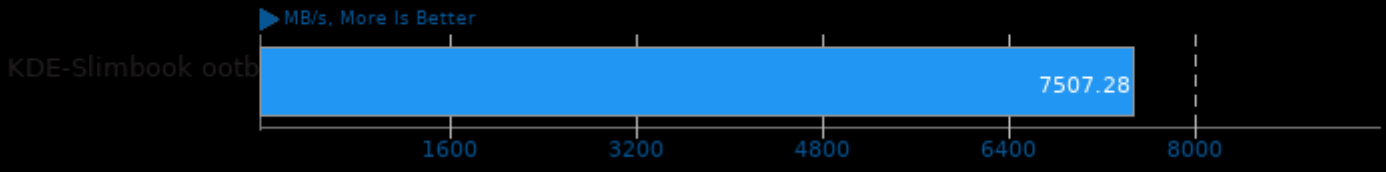
RAMspeed SMP 3.5.0

Integer Copy



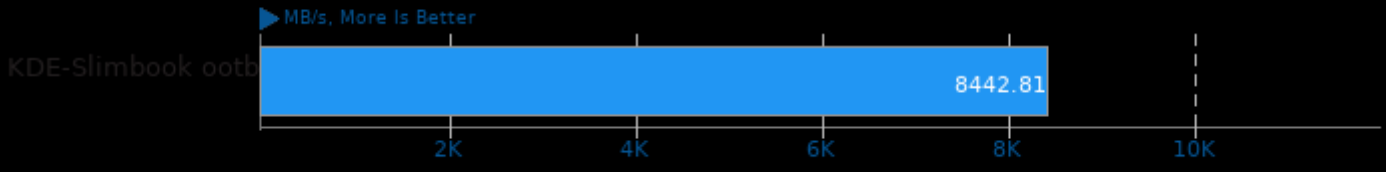
RAMspeed SMP 3.5.0

Integer Scale



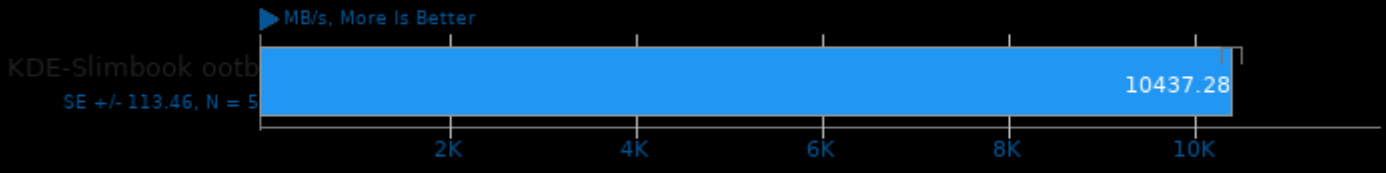
RAMspeed SMP 3.5.0

Floating-Point Add



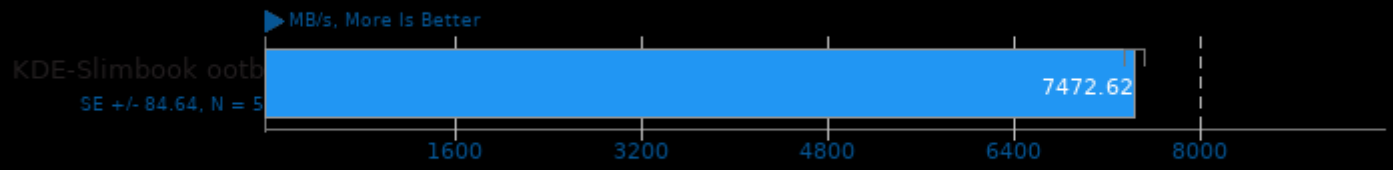
Stream 2013-01-17

Type: Copy



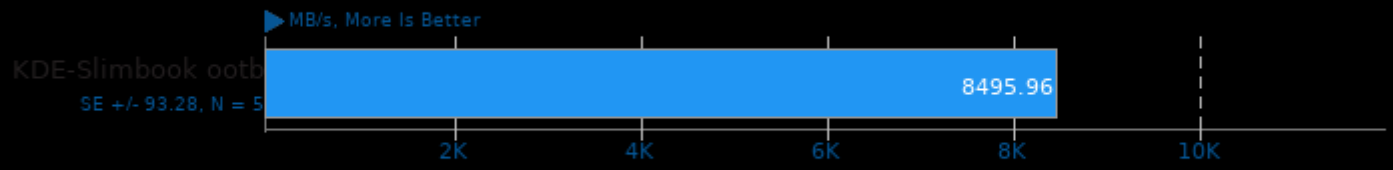
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Type: Scale



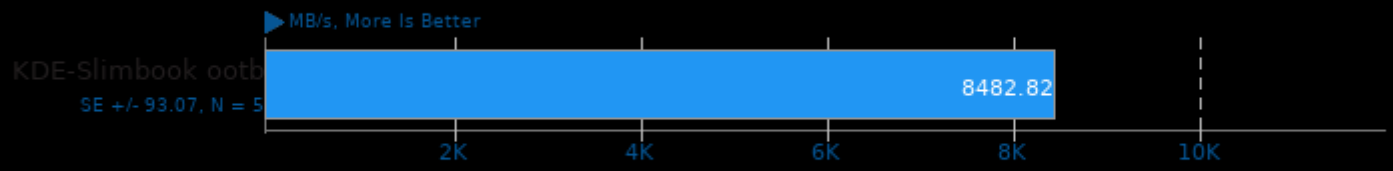
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Type: Triad



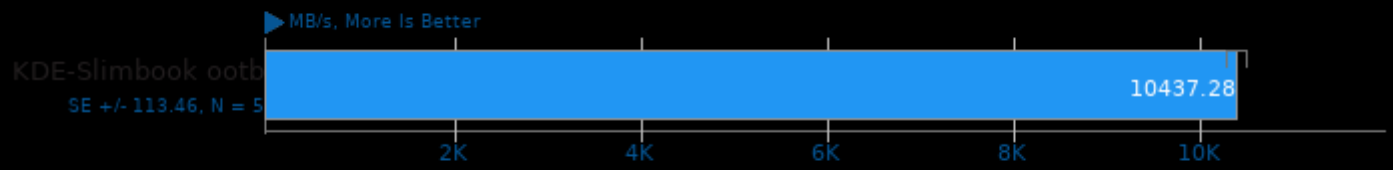
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Add



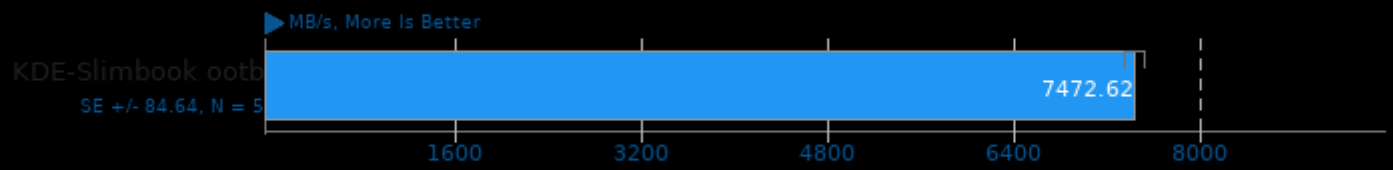
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Copy



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

Stream 2013-01-17
Scale

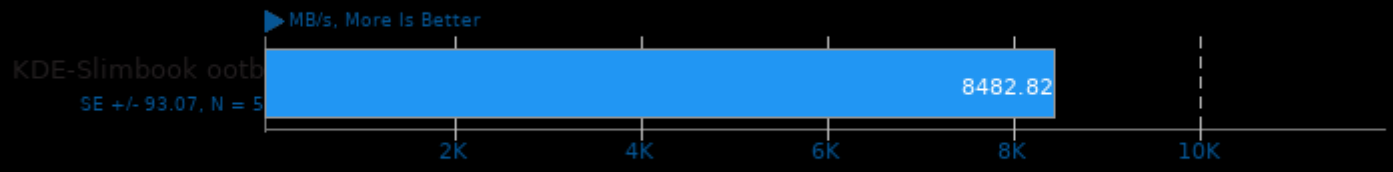


1. (CC) gcc options: -O3 -march=native -fopenmp

KDESL

Stream 2013-01-17

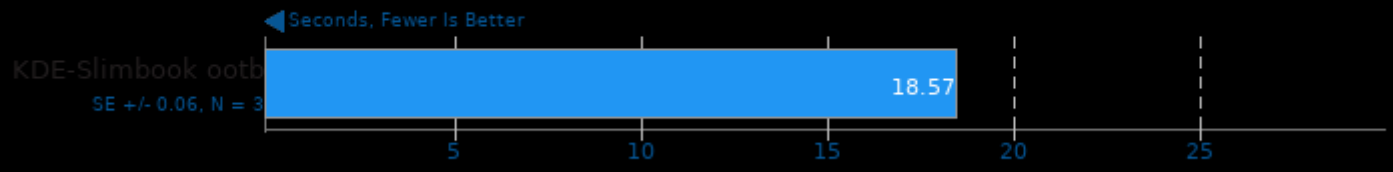
Type: Add



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

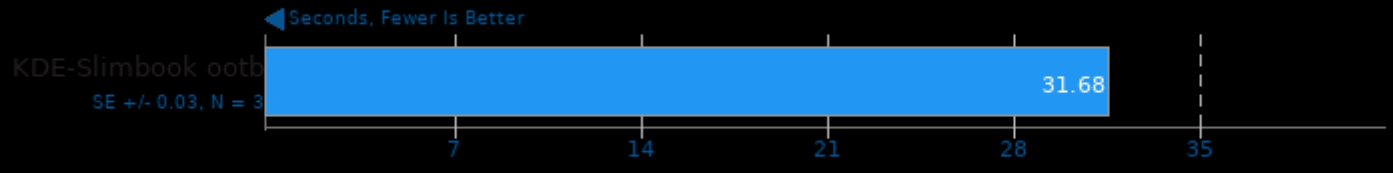
Loopback TCP Network Performance

Time To Transfer 10GB Via Loopback



Timed HMMer Search 2.3.2

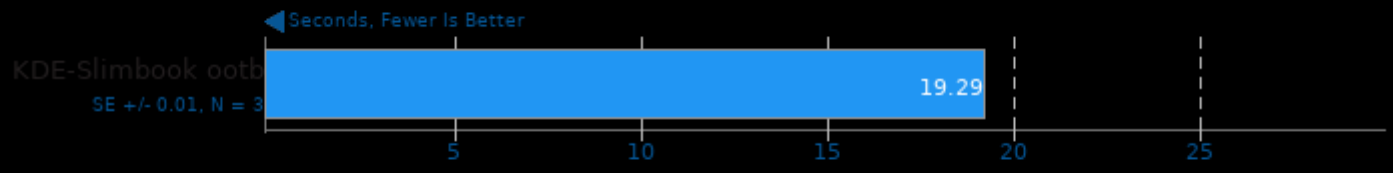
Pfam Database Search



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

Timed MAFFT Alignment 6.864

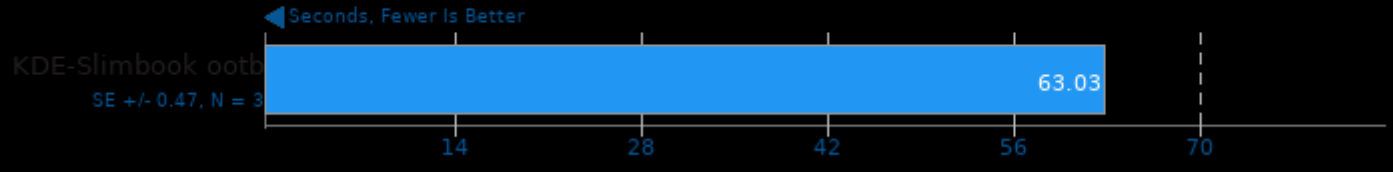
Multiple Sequence Alignment



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

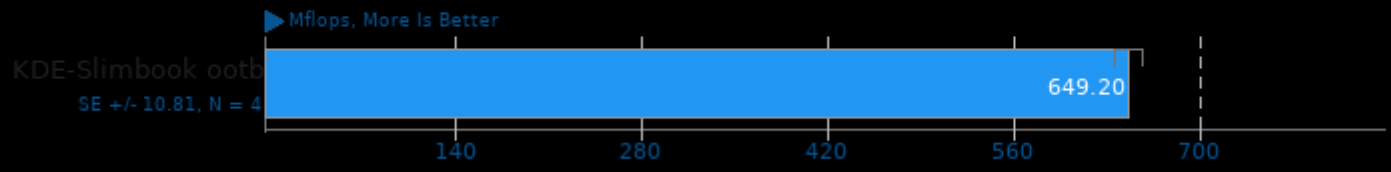
Timed MrBayes Analysis 3.1.2

Primate Phylogeny Analysis

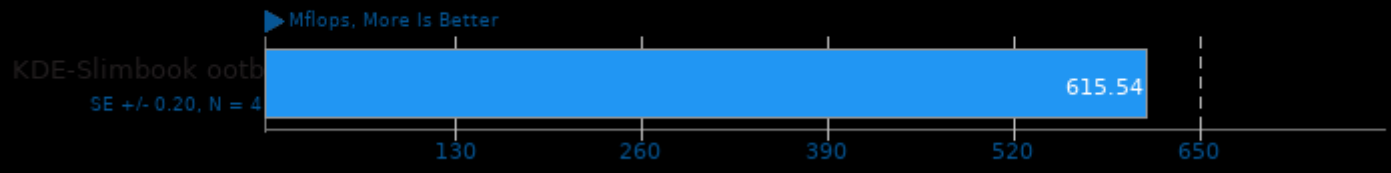


KDESL

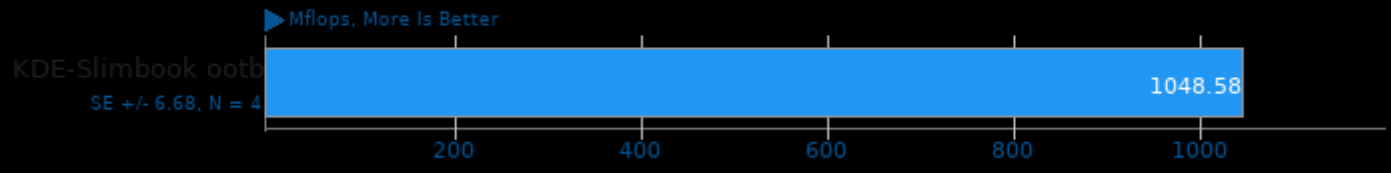
Java SciMark 2.0
FFT Performance



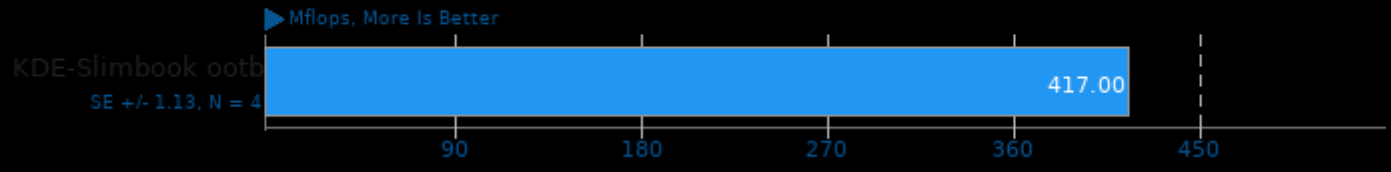
Java SciMark 2.0
SOR Performance



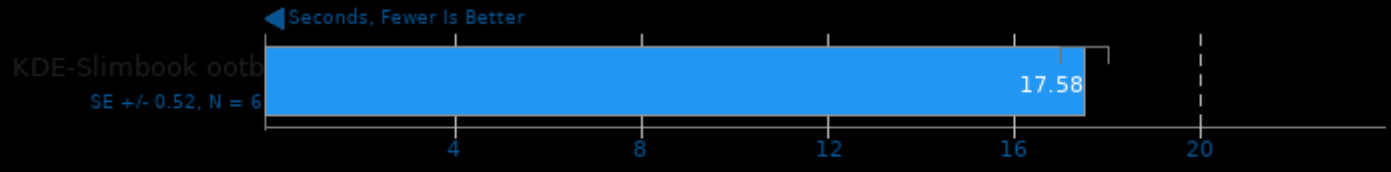
Java SciMark 2.0
Composite Performance



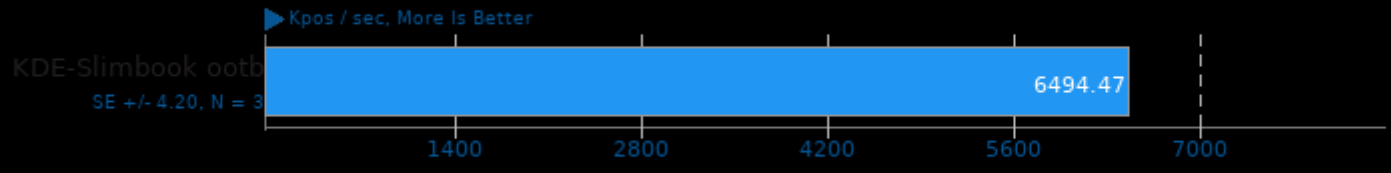
Java SciMark 2.0
Monte Carlo Performance



Bork File Encrypter 1.4
File Encryption Time



Fhourstones 3.1
Complex Connect-4 Solving

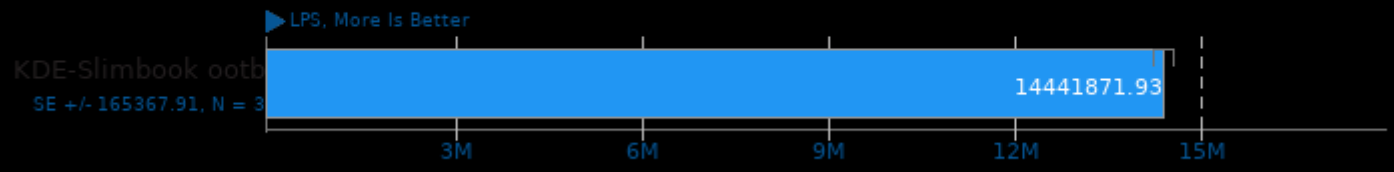


1. (CC) gcc options: -O3

KDESL

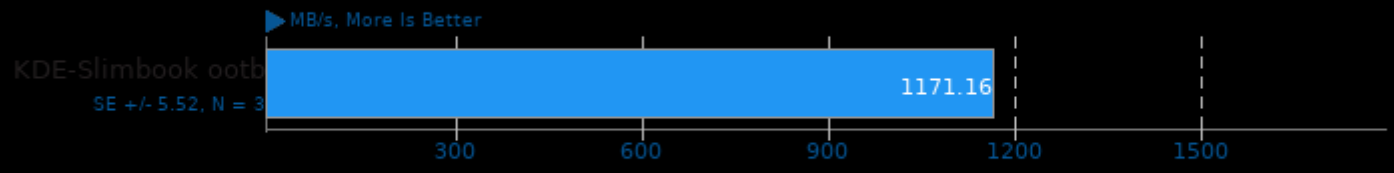
BYTE Unix Benchmark 3.6

Dhrystone 2



CacheBench

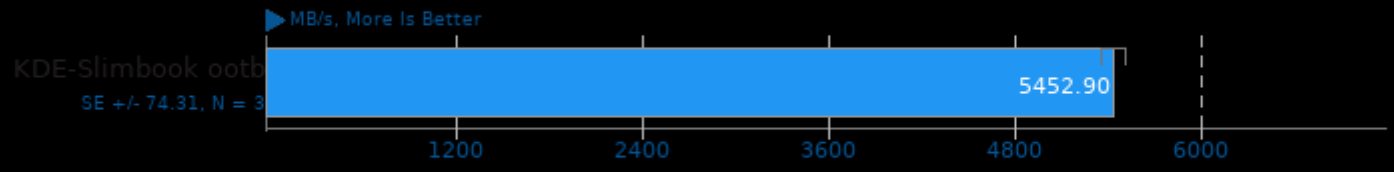
Read Cache



1. (CC) gcc options: -lrt

CacheBench

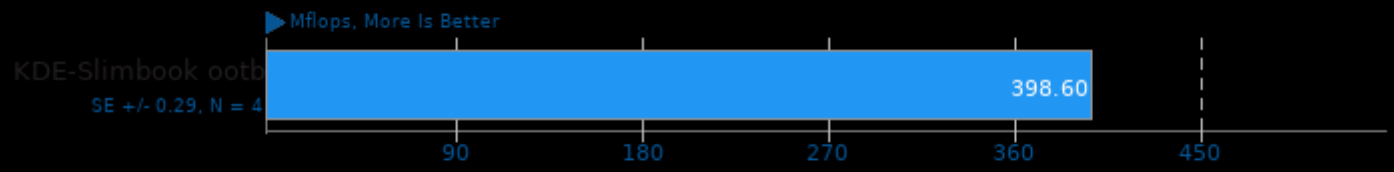
Write Cache



1. (CC) gcc options: -lrt

SciMark 2.0

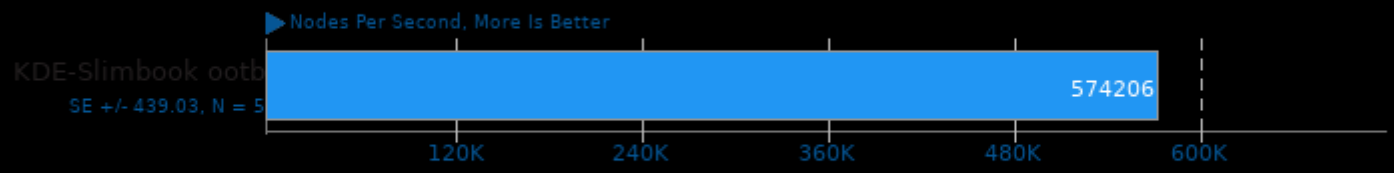
Composite



1. (CC) gcc options: -lm

TSCP 1.81

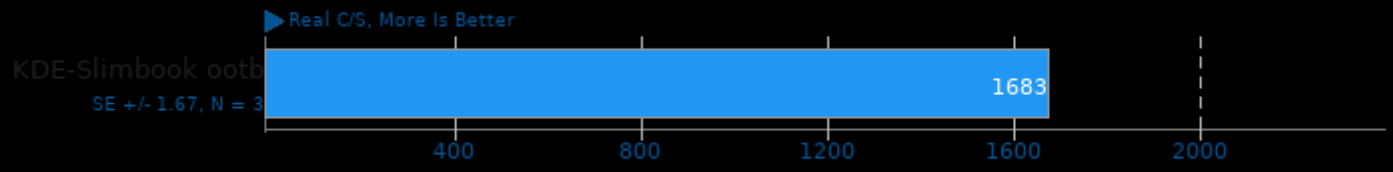
AI Chess Performance



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

John The Ripper 1.8.0

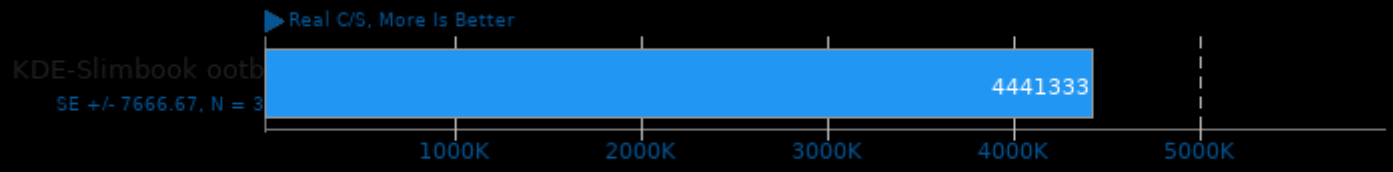
Test: Blowfish



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

John The Ripper 1.8.0

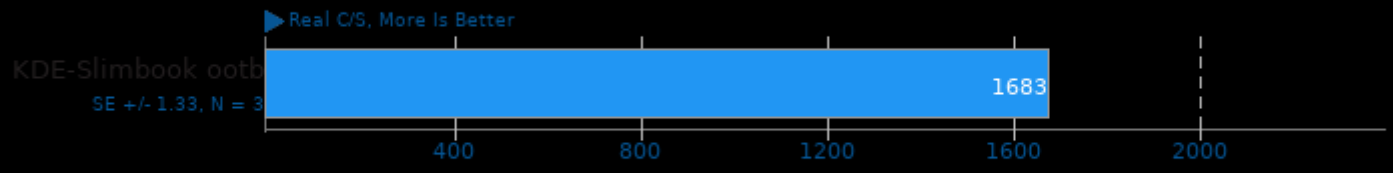
Test: Traditional DES



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

John The Ripper 1.8.0

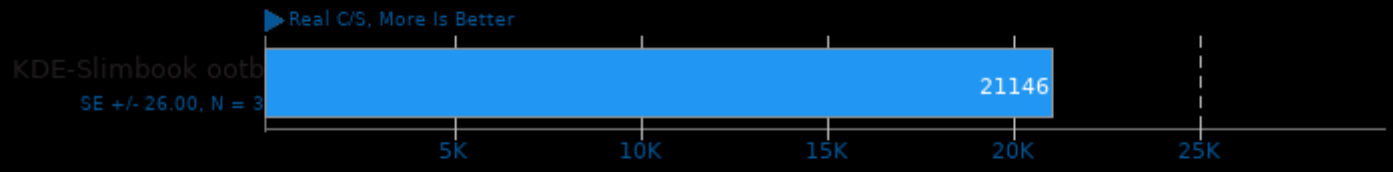
Blowfish



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

John The Ripper 1.8.0

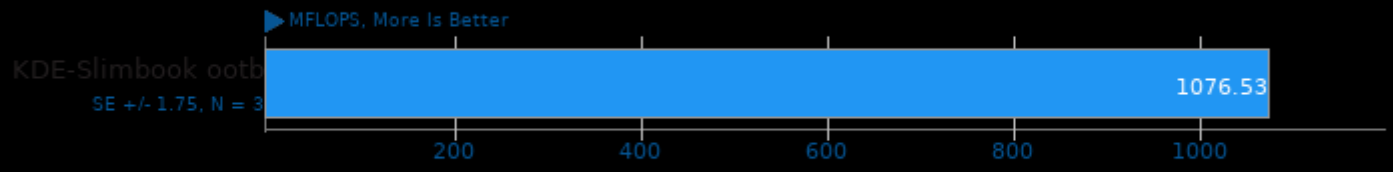
Test: MD5



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

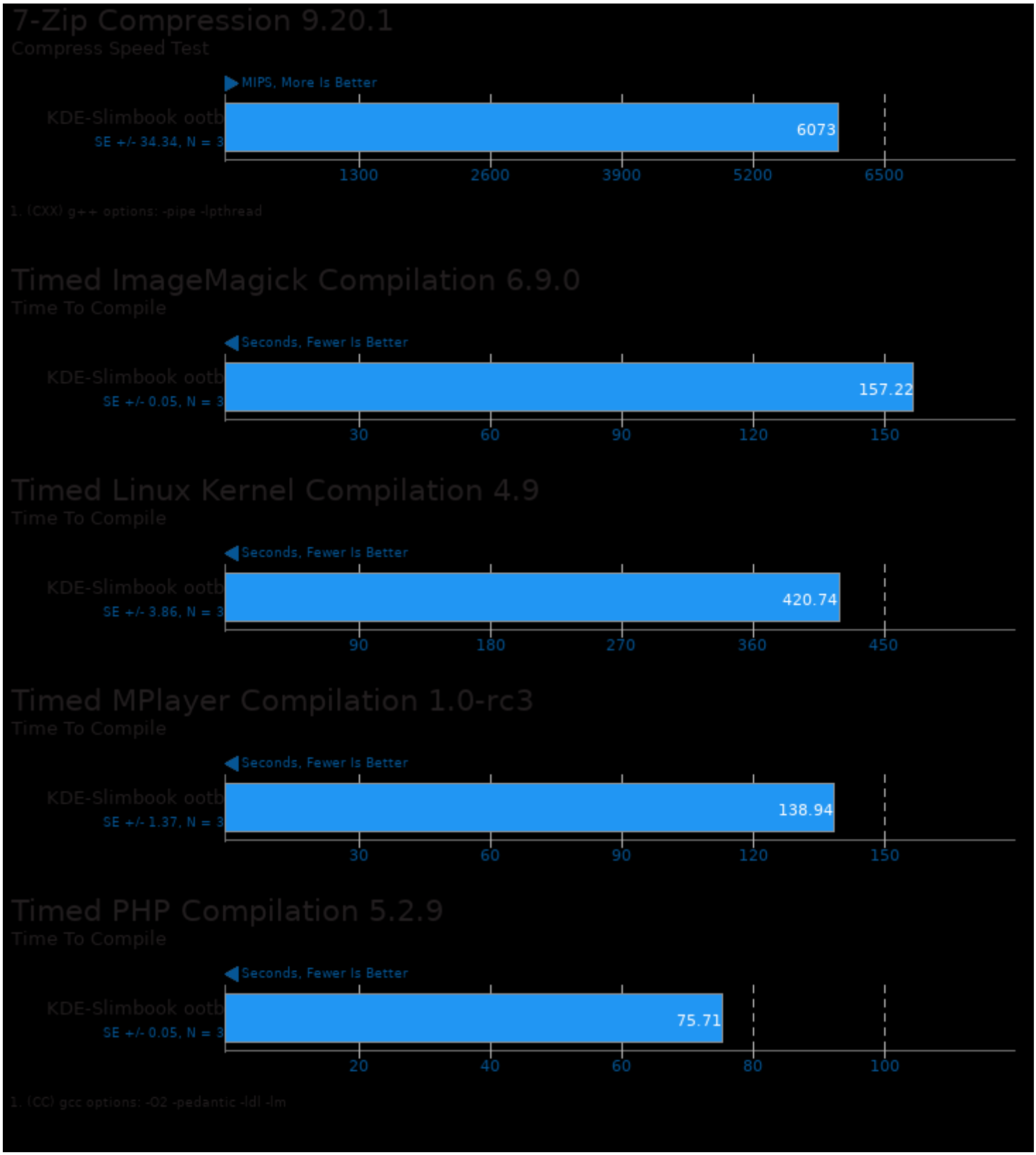
Himeno Benchmark 3.0

Poisson Pressure Solver



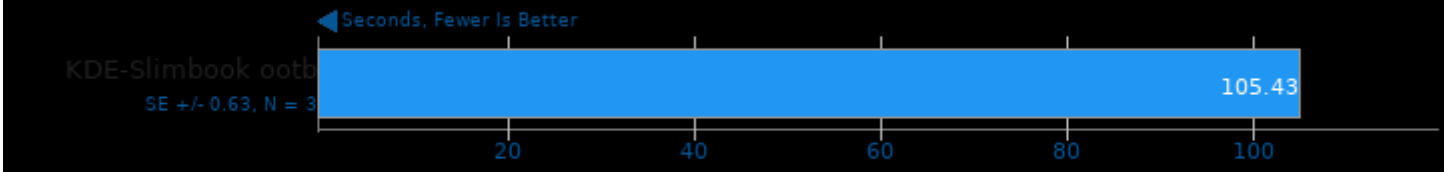
1. (CC) gcc options: -O3 -mavx2

KDESL


7-Zip Compression 9.20.1
Compress Speed Test
MIPS, More Is Better
KDE-Slimbook ootb
SE +/- 34.34, N = 3
6073
1300
2600
3900
5200
6500
1. (CXX) g++ options: -pipe -lpthread
Timed ImageMagick Compilation 6.9.0
Time To Compile
Seconds, Fewer Is Better
KDE-Slimbook ootb
SE +/- 0.05, N = 3
157.22
30
60
90
120
150
Timed Linux Kernel Compilation 4.9
Time To Compile
Seconds, Fewer Is Better
KDE-Slimbook ootb
SE +/- 3.86, N = 3
420.74
90
180
270
360
450
Timed MPlayer Compilation 1.0-rc3
Time To Compile
Seconds, Fewer Is Better
KDE-Slimbook ootb
SE +/- 1.37, N = 3
138.94
30
60
90
120
150
Timed PHP Compilation 5.2.9
Time To Compile
Seconds, Fewer Is Better
KDE-Slimbook ootb
SE +/- 0.05, N = 3
75.71
20
40
60
80
100
1. (CC) gcc options: -O2 -pedantic -ldl -lm

C-Ray 1.1

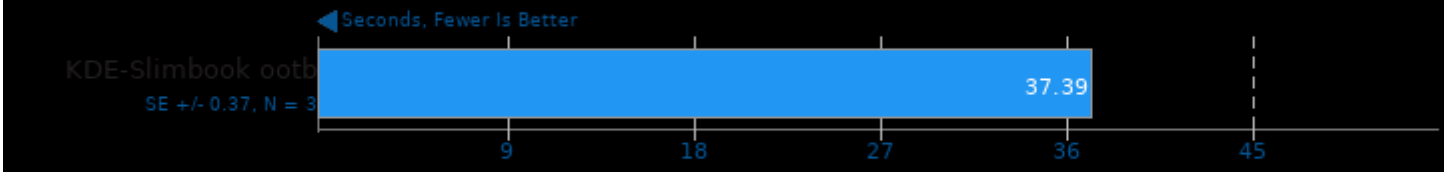
Total Time



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

Parallel BZIP2 Compression 1.1.12

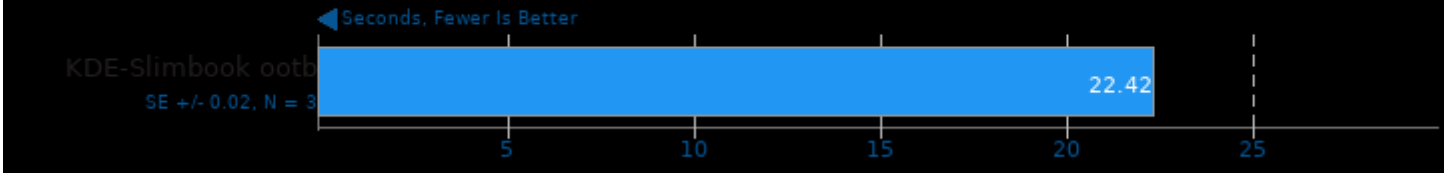
256MB File Compression



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

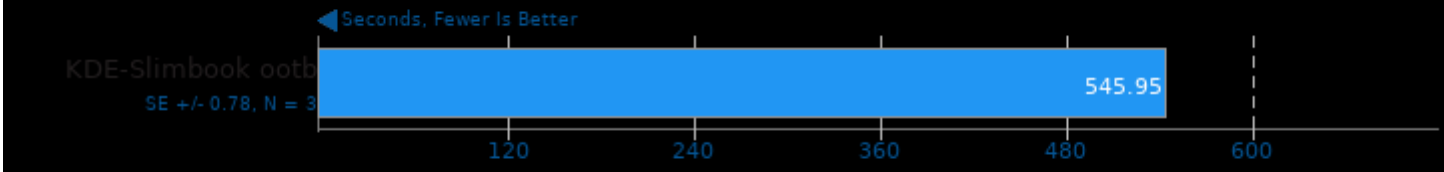
Gzip Compression

2GB File Compression



LZMA Compression

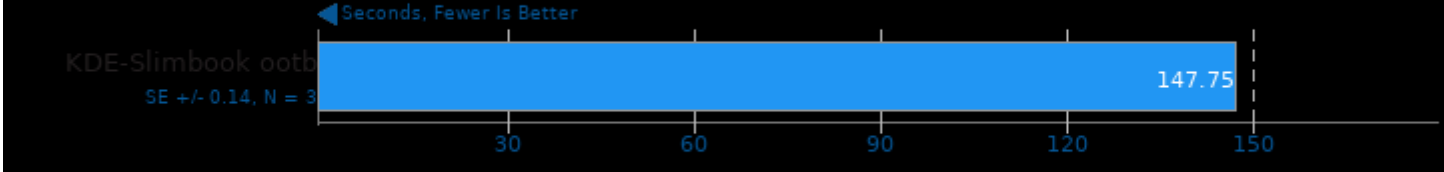
256MB File Compression



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

Crafty 23.4

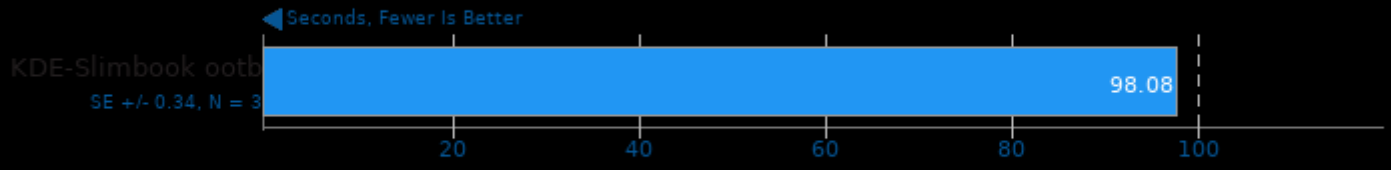
Elapsed Time



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

dcraw

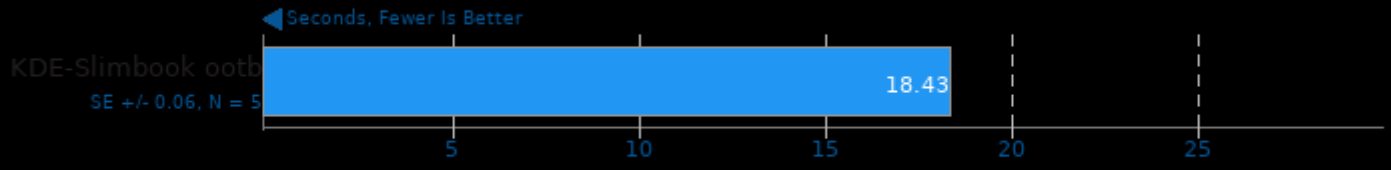
RAW To PPM Image Conversion



1. (CC) gcc options: -lm

Monkey Audio Encoding 3.99u4b5s6

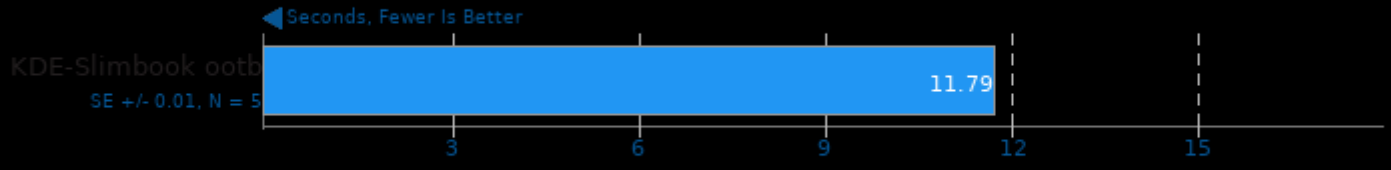
WAV To APE



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

FLAC Audio Encoding 1.3.1

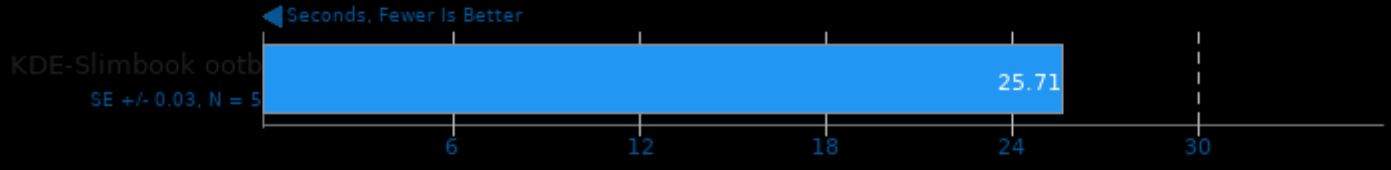
WAV To FLAC



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

LAME MP3 Encoding 3.99.3

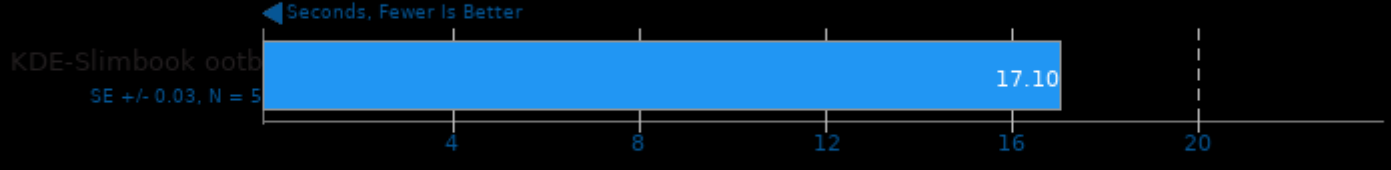
WAV To MP3



1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lm

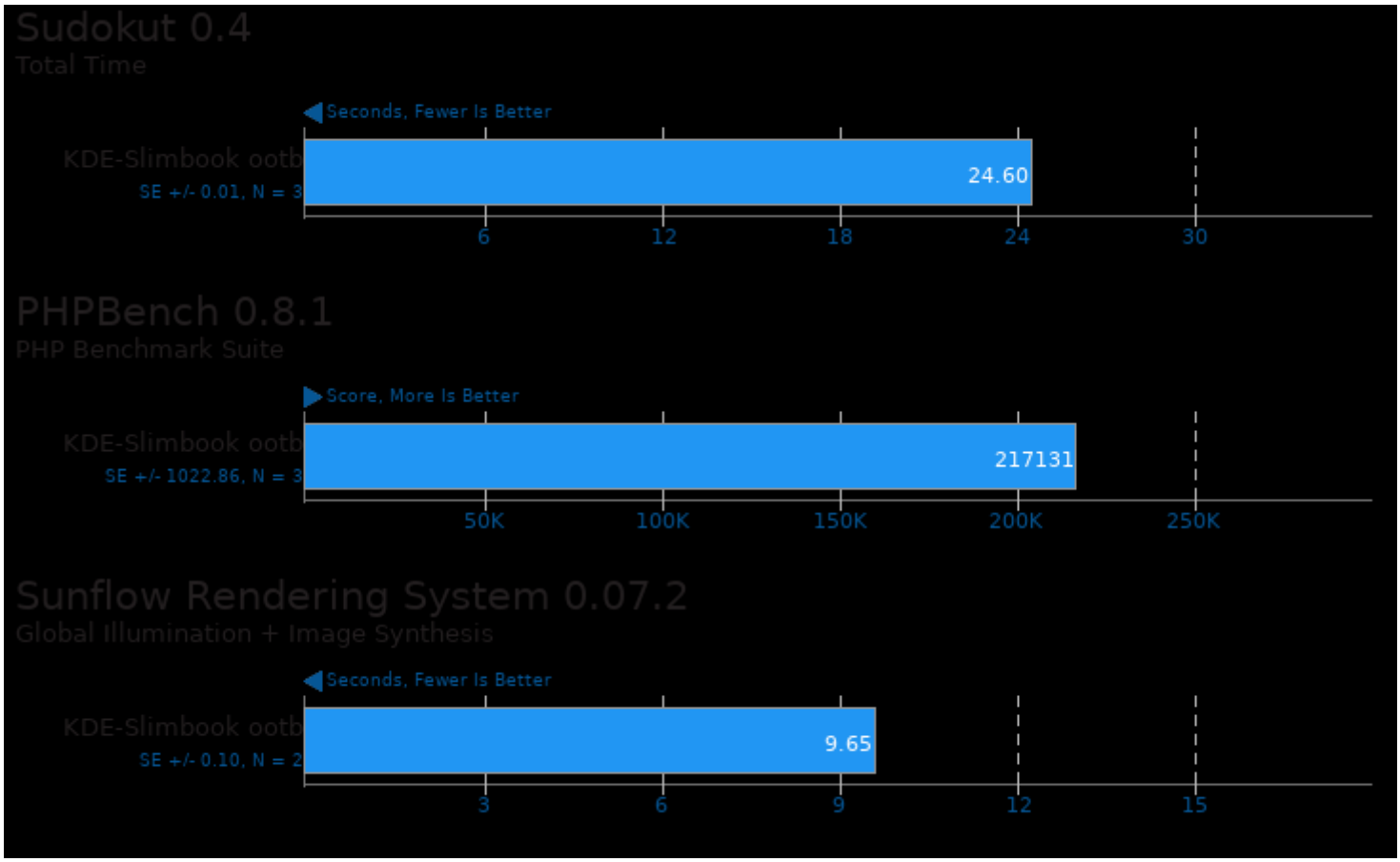
WavPack Audio Encoding 5.1

WAV To WavPack



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

KDESL



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 09:06.