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2015-02-13-1926

Intel Core 2 Quad testing with a ASUS P5N-E SLI and XFX AMD Radeon R7 240 2048MB on CentOS 7.0.1406 via the Phoronix Test Suite.

Test Systems:

Seagate ST3000VX000-1CU1

Processor: Intel Core 2 Quad @ 2.67GHz (4 Cores), Motherboard: ASUS P5N-E SLI, Chipset: NVIDIA C55, Memory: 4096MB, Disk: 3001GB Seagate ST3000VX000-1CU1, Graphics: XFX AMD Radeon R7 240 2048MB, Audio: NVIDIA MCP51 HD Audio, Monitor: MStar Demo, Network: Intel 82574L Gigabit Connection

OS: CentOS 7.0.1406, Kernel: 3.17.4 (x86_64), Desktop: MATE 1.8.1, Display Server: X Server 1.15.0, Display Driver: radeon 7.5.99, Compiler: GCC 4.8.2 20140120, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-redhat-linux --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,java,fortran,ada,go,lto --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-linker-hash-style=gnu --with-tune=generic
Disk Notes: CFQ / data=ordered,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

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System Notes: Disk Scheduler: CFQ. Python 2.7.5.

	Seagate ST3000VX000-1CU1
PHPBench - P.B.S (Score)	64832
Standard Deviation	3.4%
Apache Benchmark - S.W.P.S (Reqs/sec)	9590
Standard Deviation	1%
NGINX Benchmark - S.W.P.S (Reqs/sec)	10430
Standard Deviation	0.7%
Hierarchical INTegration - DOUBLE (QUIPs)	285133137
Standard Deviation	0.1%
Hierarchical INTegration - FLOAT (QUIPs)	198048344
Standard Deviation	0%
PyBench - T.F.A.T.T (Milliseconds)	3728
Standard Deviation	0.6%
OpenSSL - R.4.b.P (Signs/sec)	230.60
Standard Deviation	0.7%
System XZ Decompression - P.T.S.v.4.1 (sec)	6.51
Standard Deviation	1.6%
System BZIP2 Decompression - P.T.S.v.4.1 (sec)	13.94
Standard Deviation	4.1%
POV-Ray - Total Time (sec)	343.23
Standard Deviation	0.1%
N-Queens - Elapsed Time (sec)	89.61
Standard Deviation	0%
Mencoder - AVI To LAVC (sec)	42.47
Standard Deviation	2.7%
GnuPG - 1.F.E (sec)	13.14
Standard Deviation	0.7%
FFmpeg - H.2.H.T.N.D (sec)	27.22
Standard Deviation	3.1%
dcraw - R.T.P.I.C (sec)	102.06
Standard Deviation	0.7%
Crafty - Elapsed Time (sec)	131.18
Standard Deviation	0.1%
LZMA Compression - 2.F.C (sec)	202.40
Standard Deviation	0.2%
Gzip Compression - 2.F.C (sec)	20.38
Standard Deviation	0.8%
Parallel BZIP2 Compression - 2.F.C (sec)	16.89
Standard Deviation	4.4%
C-Ray - Total Time (sec)	45.90
Standard Deviation	0.1%
Timed PHP Compilation - Time To Compile (sec)	71.37
Standard Deviation	0.2%
Timed Linux Kernel Compilation - Time To Compile (sec)	260.09
Standard Deviation	1.1%
Timed Apache Compilation - Time To Compile (sec)	58.46
Standard Deviation	0.4%

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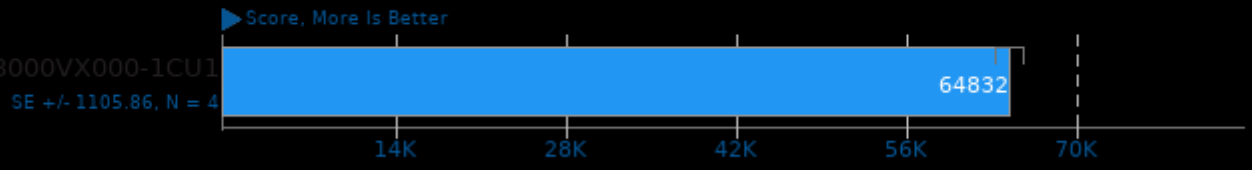
7-Zip Compression - C.S.T (MIPS)	6691
Standard Deviation	3.1%
x264 - H.2.V.E (FPS)	62.27
Standard Deviation	2%
John The Ripper - MD5 (Real C/S)	45617
Standard Deviation	0.2%
John The Ripper - Traditional DES (Real C/S)	11500000
Standard Deviation	0.1%
John The Ripper - Blowfish (Real C/S)	2933
Standard Deviation	0.1%
Gcrypt Library - C.E.C (us)	3887
Standard Deviation	0.3%
SciMark - J.S.O.R (Mflops)	785.12
Standard Deviation	0.1%
SciMark - D.L.M.F (Mflops)	743.34
Standard Deviation	0.5%
SciMark - S.M.M (Mflops)	563.47
Standard Deviation	1.1%
SciMark - F.F.T (Mflops)	59.50
Standard Deviation	0.5%
SciMark - Monte Carlo (Mflops)	346.09
Standard Deviation	0.2%
SciMark - Composite (Mflops)	499.50
Standard Deviation	0.3%
Botan - X9.19-MAC (Mbytes/s)	53.12
Botan - CAST-256 (Mbytes/s)	56.31
Botan - Twofish (Mbytes/s)	128.57
Botan - AES-256 (Mbytes/s)	94.40
Botan - KASUMI (Mbytes/s)	28.20
Botan - Tiger (Mbytes/s)	264.52
CacheBench - R.M.W (MB/s)	14932
Standard Deviation	0%
CacheBench - Write (MB/s)	9993
Standard Deviation	0%
CacheBench - Read (MB/s)	2255
Standard Deviation	0%
BYTE Unix Benchmark - F.P.A (LPS)	1
Standard Deviation	0%
BYTE Unix Benchmark - R.A (LPS)	1
Standard Deviation	0%
BYTE Unix Benchmark - Integer Arithmetic (LPS)	1
Standard Deviation	0%
BYTE Unix Benchmark - Dhrystone 2 (LPS)	17580929
Standard Deviation	0.2%
Bork File Encrypter - F.E.T (sec)	33.52
Standard Deviation	7.1%
BLAKE2 - P.T.S.v.4.1 (Cycles/Byte)	9.47
Standard Deviation	0.1%
CLOMP - Static OMP Speedup (Speedup)	2.31
Standard Deviation	0.7%
Stream - Add (MB/s)	2065
Standard Deviation	0.8%

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Stream - Triad (MB/s)	2091
Standard Deviation	0.6%
Stream - Scale (MB/s)	2133
Standard Deviation	3%
Stream - Copy (MB/s)	4030
Standard Deviation	1.4%
RAMspeed SMP - Average - Floating Point (MB/s)	2241
RAMspeed SMP - Triad - Floating Point (MB/s)	2206
RAMspeed SMP - Scale - Floating Point (MB/s)	2340
RAMspeed SMP - Copy - Floating Point (MB/s)	2349
RAMspeed SMP - Add - Floating Point (MB/s)	2166
RAMspeed SMP - Average - Integer (MB/s)	2024
RAMspeed SMP - Triad - Integer (MB/s)	1785
RAMspeed SMP - Scale - Integer (MB/s)	2291
RAMspeed SMP - Copy - Integer (MB/s)	2310
RAMspeed SMP - Add - Integer (MB/s)	1799
Unpacking The Linux Kernel - linux-2.6.32.tar.bz2 (sec)	13.08
Standard Deviation	5.2%

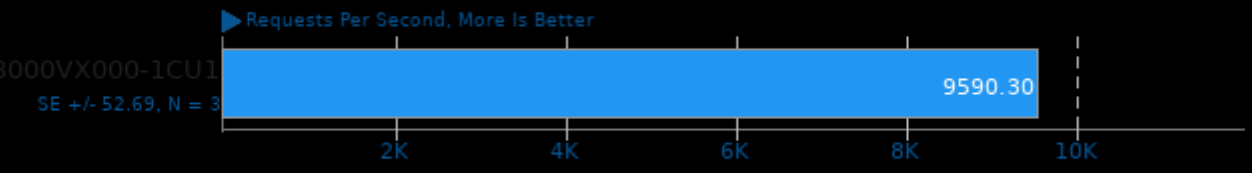
PHPBench 0.8.1

PHP Benchmark Suite



Apache Benchmark 2.4.7

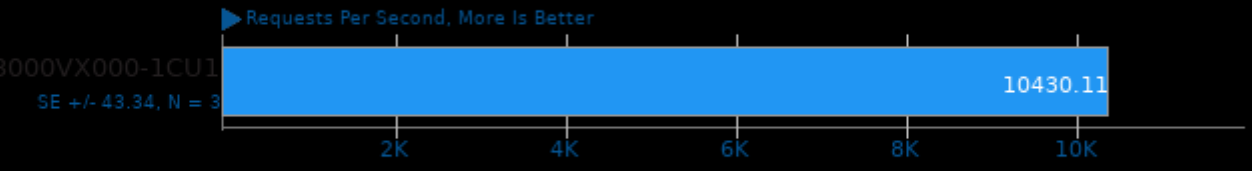
Static Web Page Serving



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

NGINX Benchmark 1.0.11

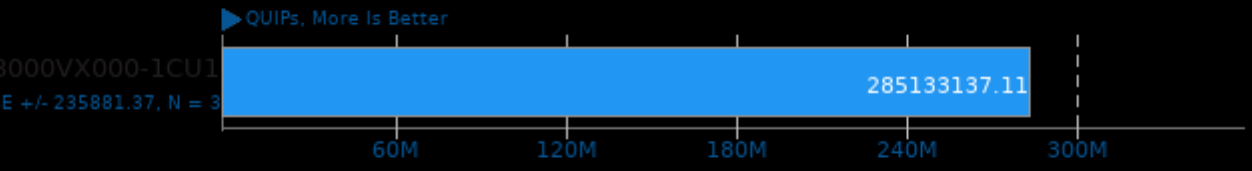
Static Web Page Serving



1. (CC) gcc options: -lpthread -lcrypt -lcrypto -lz -pipe

Hierarchical INTegration 1.0

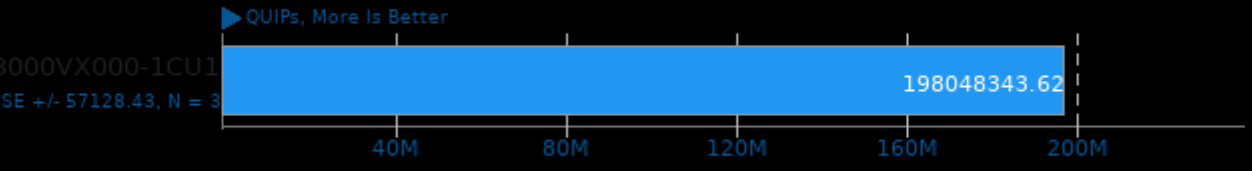
Test: DOUBLE



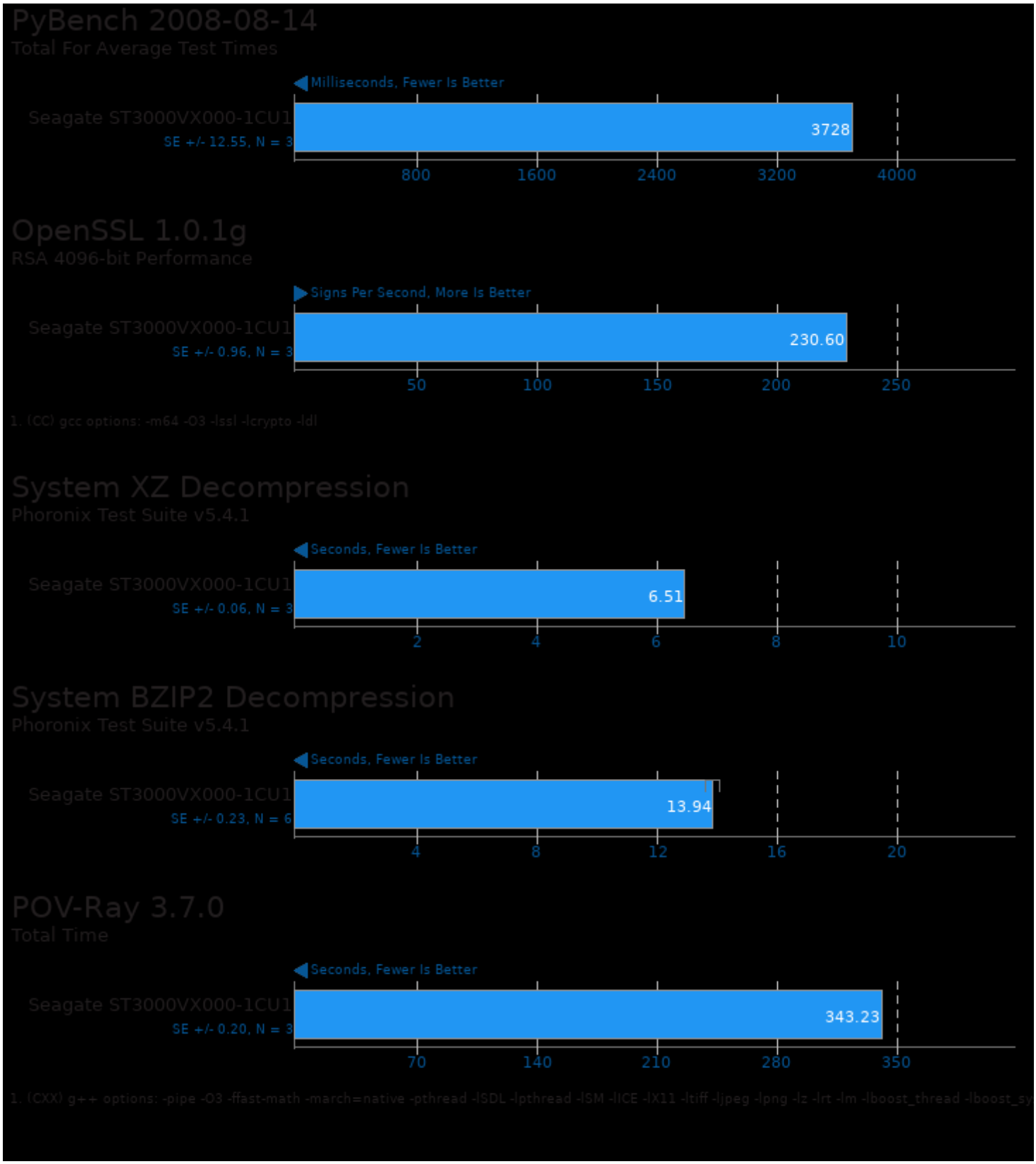
1. (CC) gcc options: -O3 -march=native -lm

Hierarchical INTegration 1.0

Test: FLOAT

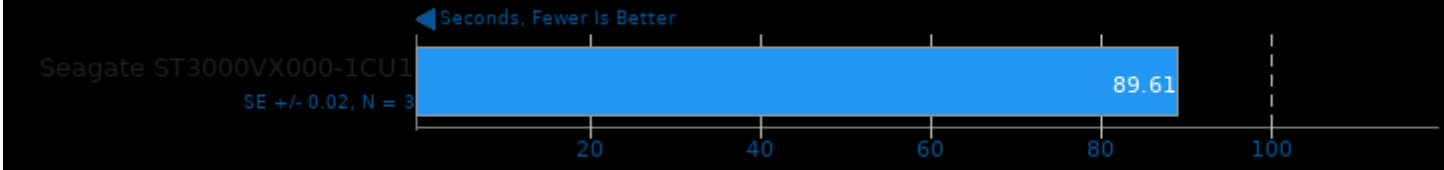


1. (CC) gcc options: -O3 -march=native -lm


PyBench 2008-08-14
Total For Average Test Times
Milliseconds, Fewer Is Better
Seagate ST3000VX000-1CU1
SE +/- 12.55, N = 3
3728
800
1600
2400
3200
4000
OpenSSL 1.0.1g
RSA 4096-bit Performance
Signs Per Second, More Is Better
Seagate ST3000VX000-1CU1
SE +/- 0.96, N = 3
230.60
50
100
150
200
250
1. (CC) gcc options: -m64 -O3 -lssl -lcrypto -ldl
System XZ Decompression
Phoronix Test Suite v5.4.1
Seconds, Fewer Is Better
Seagate ST3000VX000-1CU1
SE +/- 0.06, N = 3
6.51
2
4
6
8
10
System BZIP2 Decompression
Phoronix Test Suite v5.4.1
Seconds, Fewer Is Better
Seagate ST3000VX000-1CU1
SE +/- 0.23, N = 6
13.94
4
8
12
16
20
POV-Ray 3.7.0
Total Time
Seconds, Fewer Is Better
Seagate ST3000VX000-1CU1
SE +/- 0.20, N = 3
343.23
70
140
210
280
350
1. (CXX) g++ options: -pipe -O3 -ffast-math -march=native -pthread -lSDL -lpthread -lSM -lICE -lX11 -ltiff -ljpeg -lpng -lz -lrt -lm -lboost_thread -lboost_sy

N-Queens 1.0

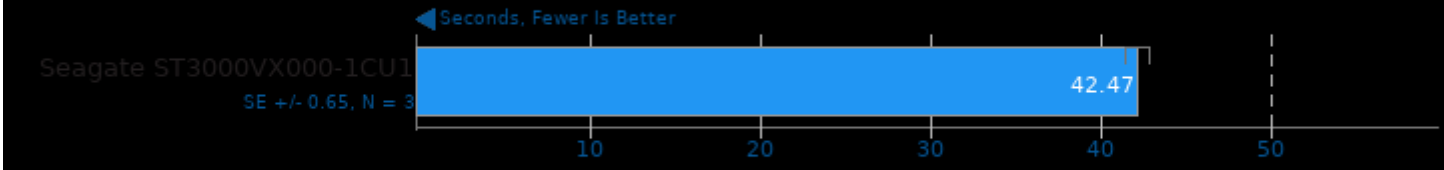
Elapsed Time



1. (CC) gcc options: -static -fopenmp -O3

Mencoder 1.1

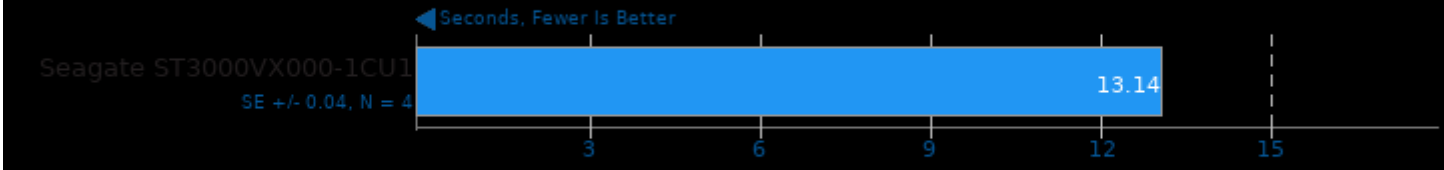
AVI To LAVC



1. (CC) gcc options: -lm -ffast-math -lpng -lz -ljpeg -lasound -ldl -lpthread -lfreetype -lfontconfig -lbz2 -rdynamic

GnuPG 1.4.10

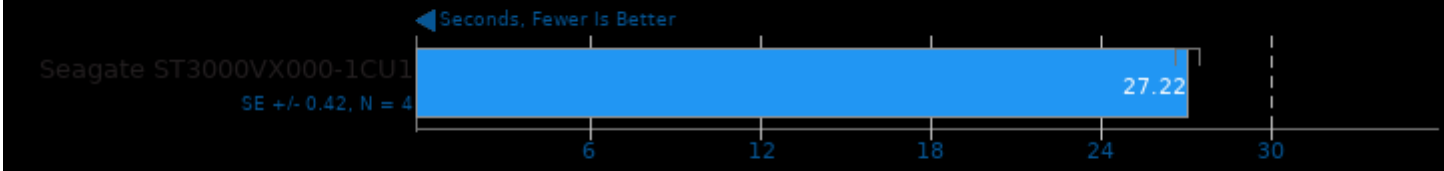
1GB File Encryption



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

FFmpeg 2.1.1

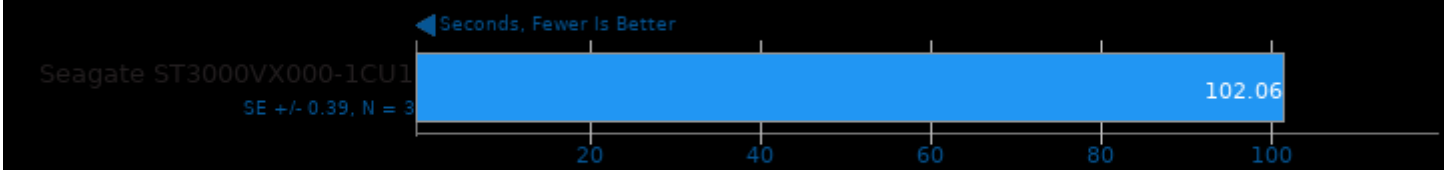
H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -ldl -lasound -lSDL -lpthread -lm -pthread -std=c99 -fomit-fra

dcraw

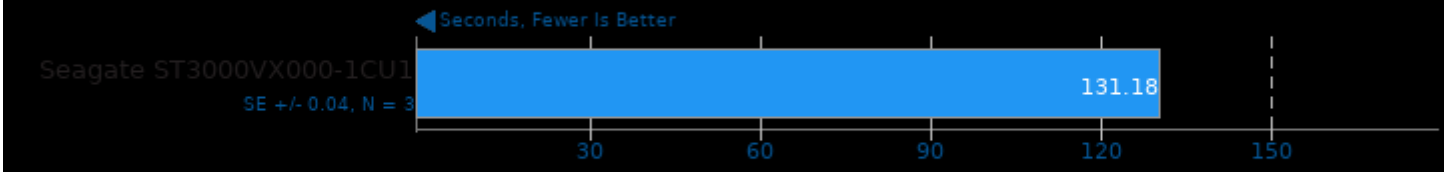
RAW To PPM Image Conversion



1. (CC) gcc options: -lm

Crafty 23.4

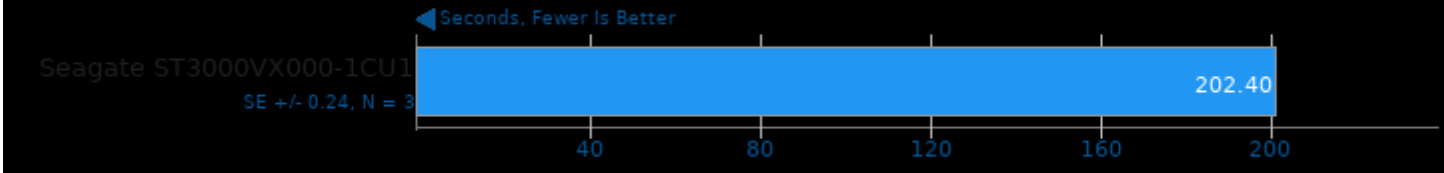
Elapsed Time



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

LZMA Compression

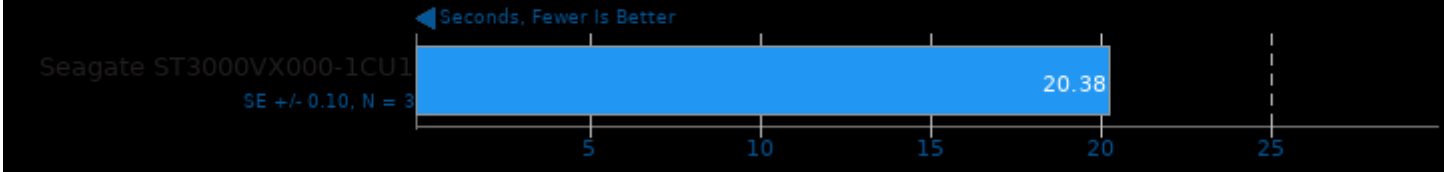
256MB File Compression



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

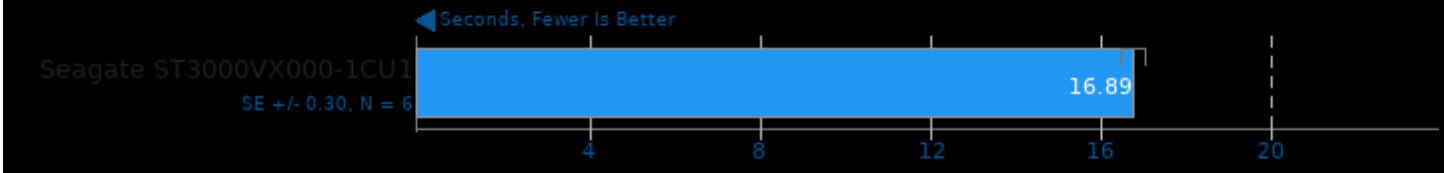
Gzip Compression

2GB File Compression



Parallel BZIP2 Compression 1.1.6

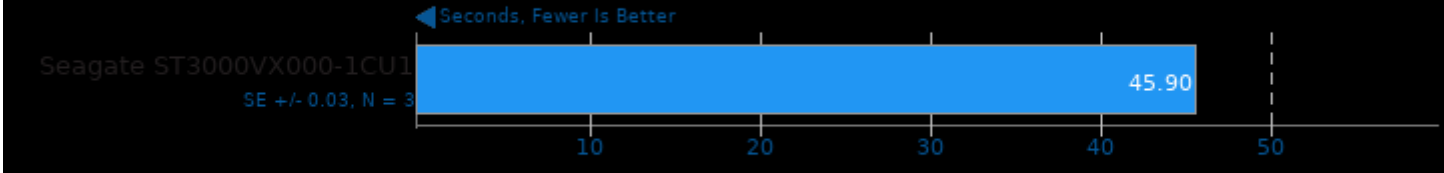
256MB File Compression



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

C-Ray 1.1

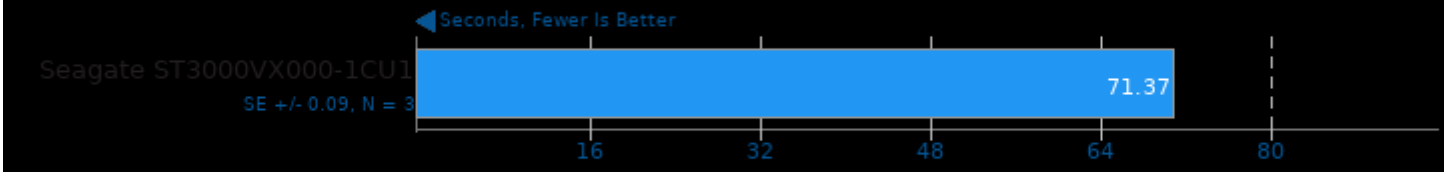
Total Time



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

Timed PHP Compilation 5.2.9

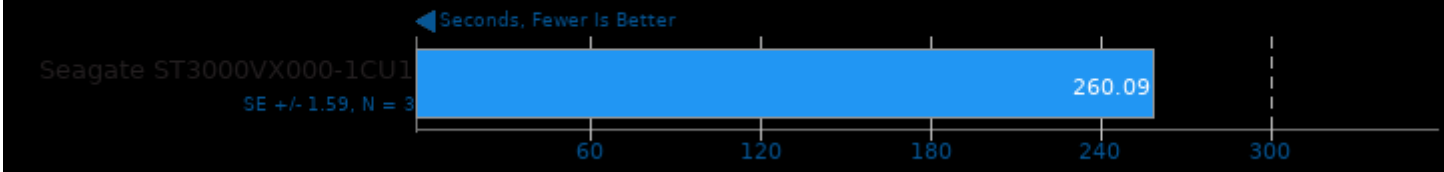
Time To Compile



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

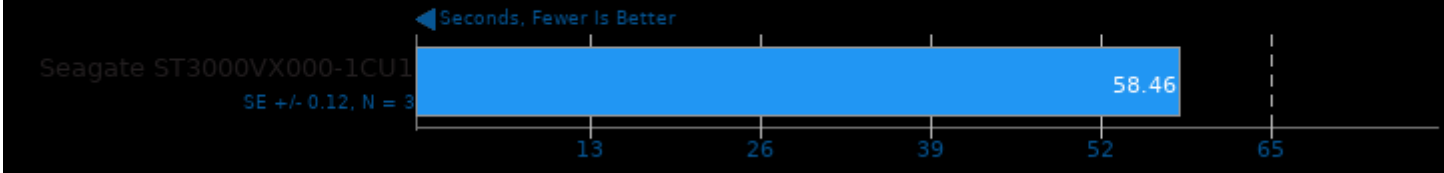
Timed Linux Kernel Compilation 3.18-rc6

Time To Compile



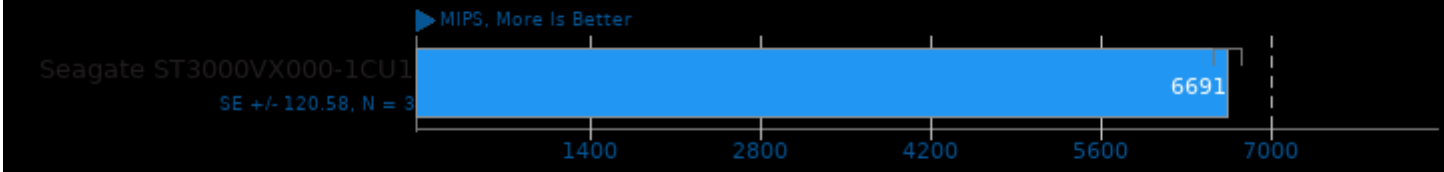
Timed Apache Compilation 2.4.7

Time To Compile



7-Zip Compression 9.20.1

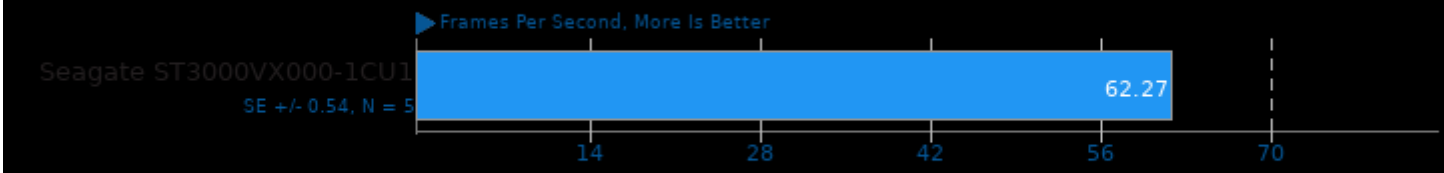
Compress Speed Test



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

x264 2014-08-30

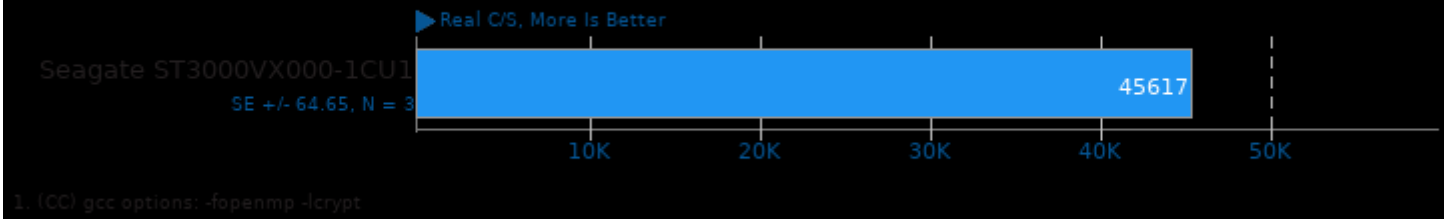
H.264 Video Encoding



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

John The Ripper 1.8.0

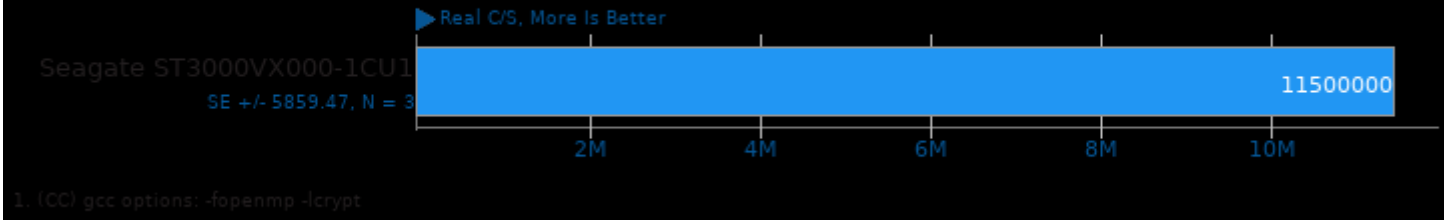
Test: MD5



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

John The Ripper 1.8.0

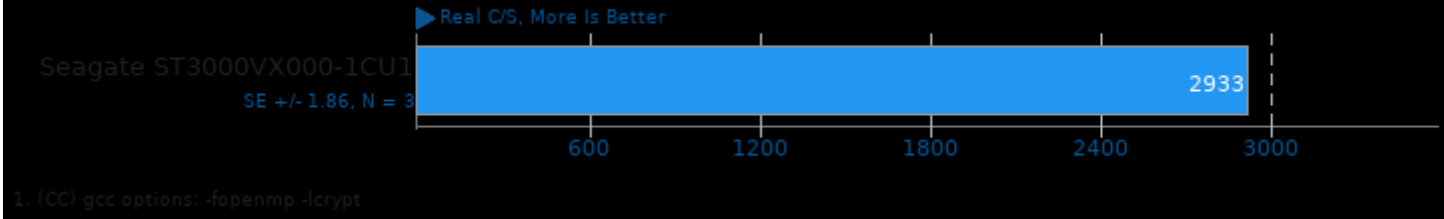
Test: Traditional DES



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

John The Ripper 1.8.0

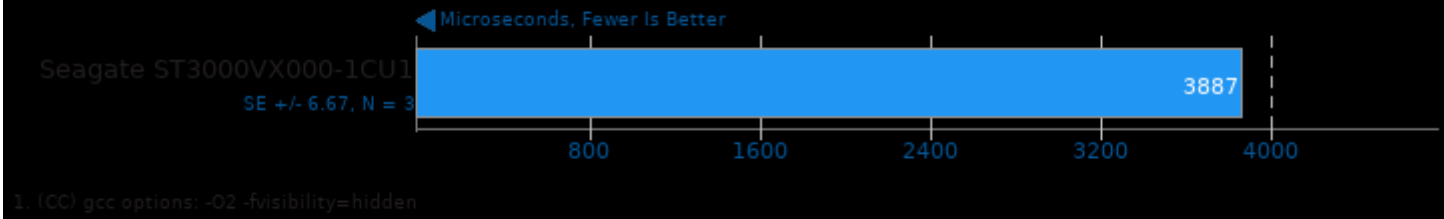
Test: Blowfish



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

Gcrypt Library 1.4.4

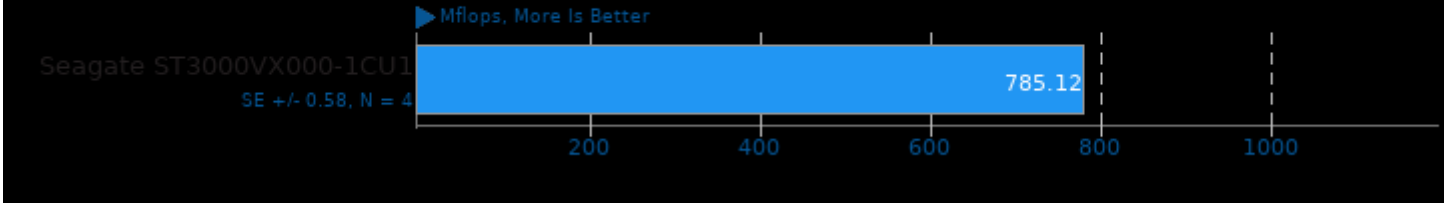
CAMELLIA256-ECB Cipher

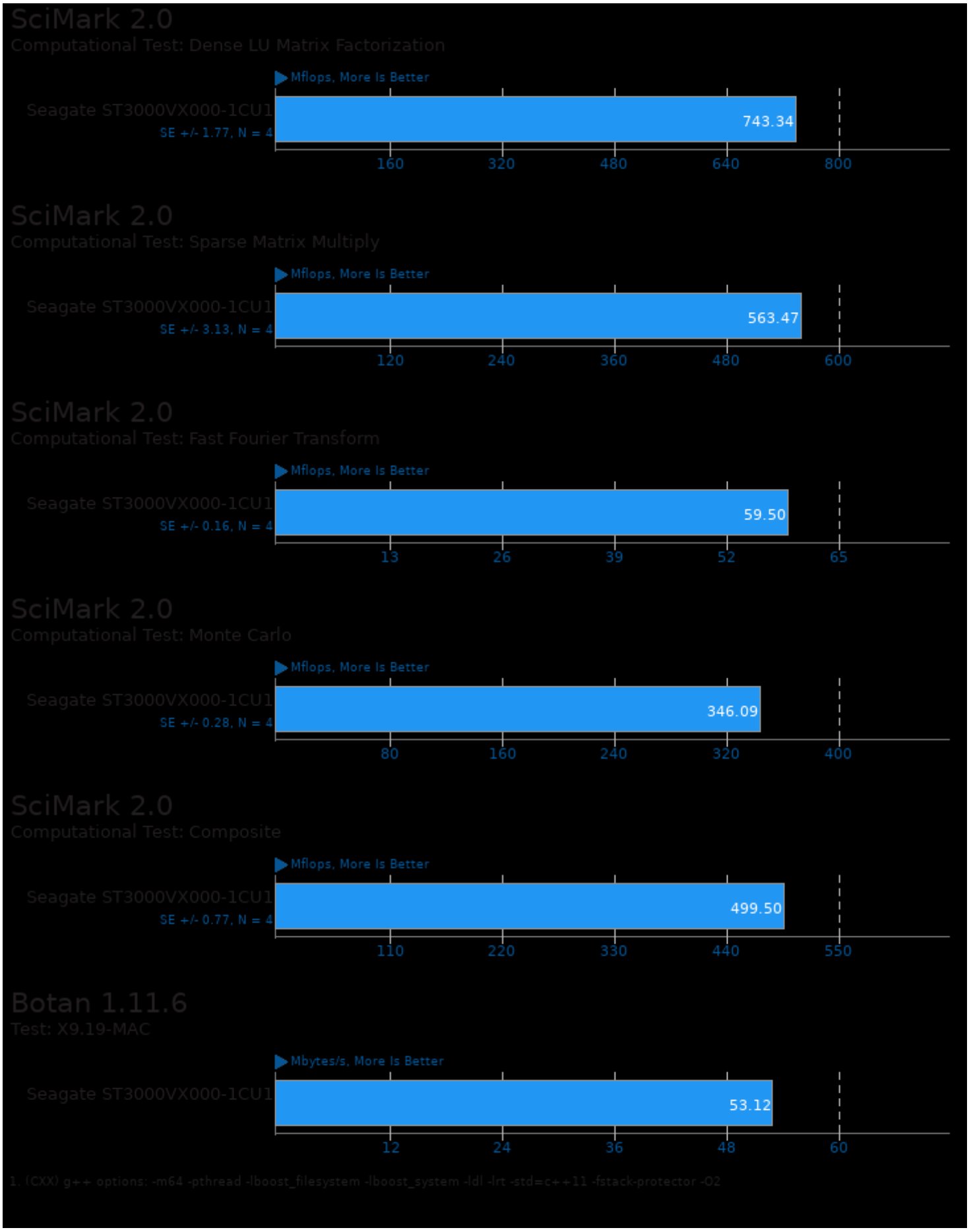


1. (CC) gcc options: -O2 -fvisibility=hidden

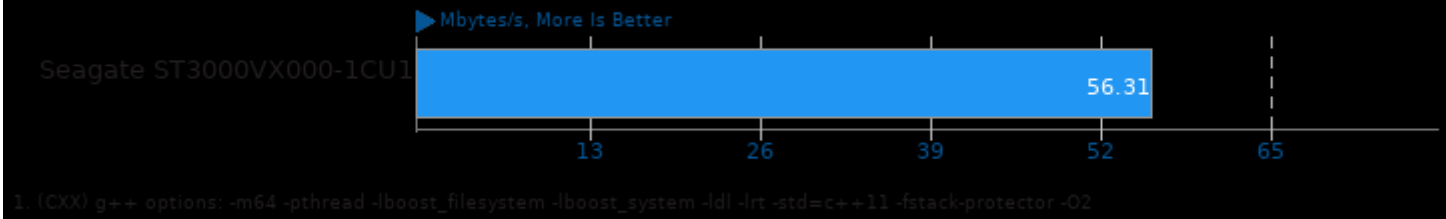
SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



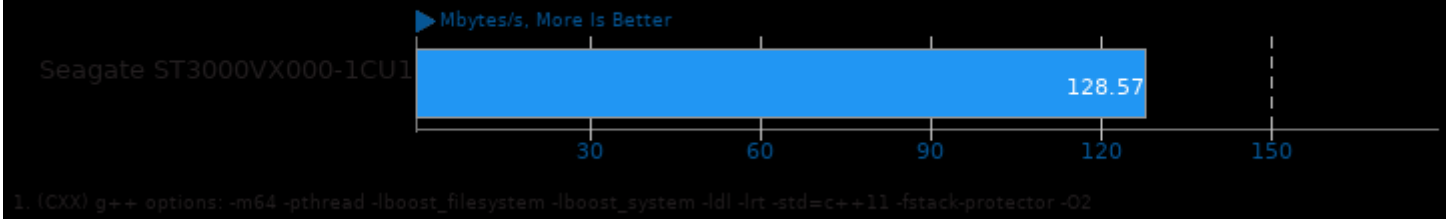

SciMark 2.0
Computational Test: Dense LU Matrix Factorization
Mflops, More Is Better
Seagate ST3000VX000-1CU1
SE +/- 1.77, N = 4
743.34
160
320
480
640
800
SciMark 2.0
Computational Test: Sparse Matrix Multiply
Mflops, More Is Better
Seagate ST3000VX000-1CU1
SE +/- 3.13, N = 4
563.47
120
240
360
480
600
SciMark 2.0
Computational Test: Fast Fourier Transform
Mflops, More Is Better
Seagate ST3000VX000-1CU1
SE +/- 0.16, N = 4
59.50
13
26
39
52
65
SciMark 2.0
Computational Test: Monte Carlo
Mflops, More Is Better
Seagate ST3000VX000-1CU1
SE +/- 0.28, N = 4
346.09
80
160
240
320
400
SciMark 2.0
Computational Test: Composite
Mflops, More Is Better
Seagate ST3000VX000-1CU1
SE +/- 0.77, N = 4
499.50
110
220
330
440
550
Botan 1.11.6
Test: X9.19-MAC
Mbytes/s, More Is Better
Seagate ST3000VX000-1CU1
53.12
12
24
36
48
60
1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

Botan 1.11.6
Test: CAST-256



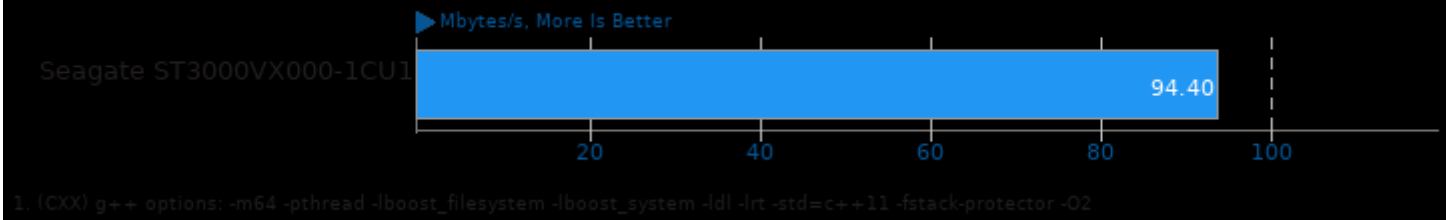
1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

Botan 1.11.6
Test: Twofish



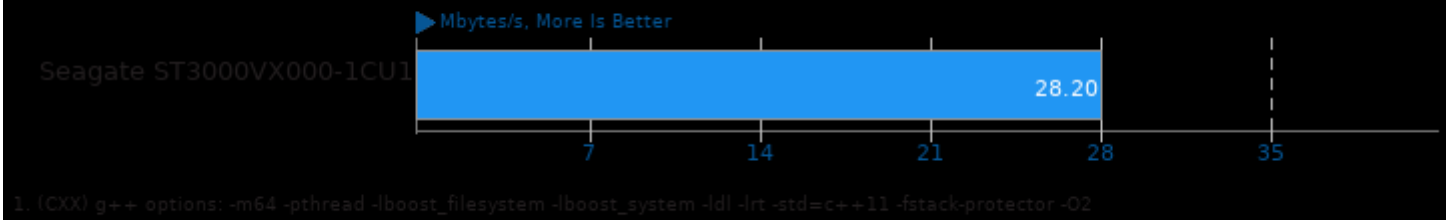
1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

Botan 1.11.6
Test: AES-256



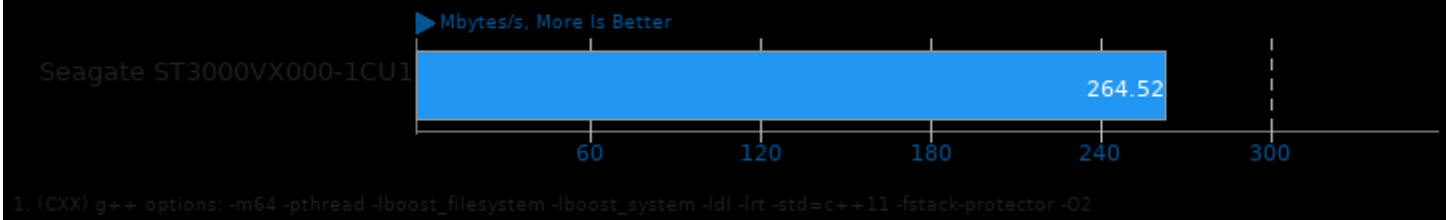
1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

Botan 1.11.6
Test: KASUMI



1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

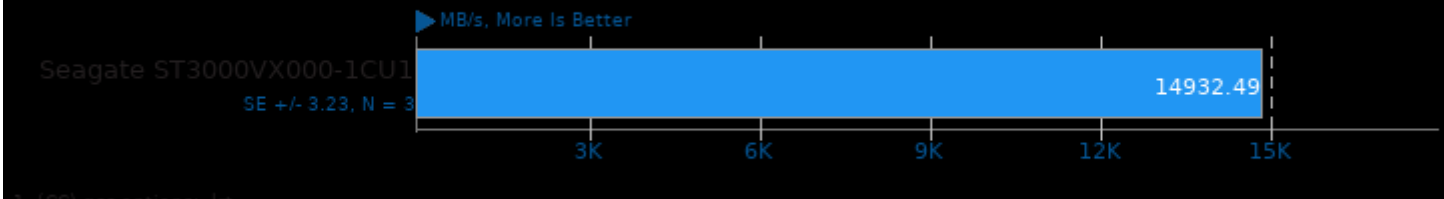
Botan 1.11.6
Test: Tiger



1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

CacheBench

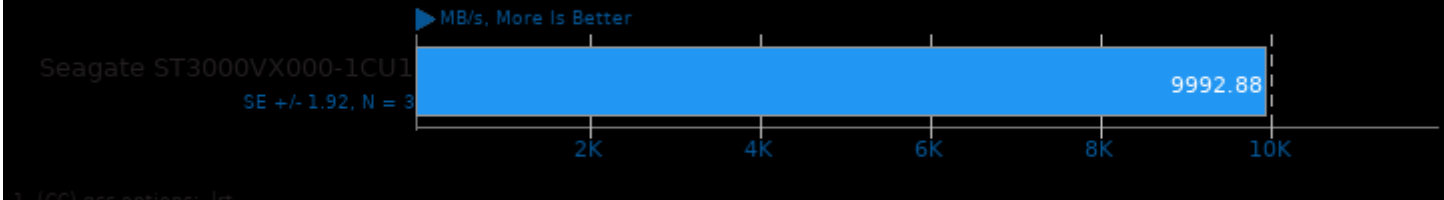
Test: Read / Modify / Write



1. (CC) gcc options: -lrt

CacheBench

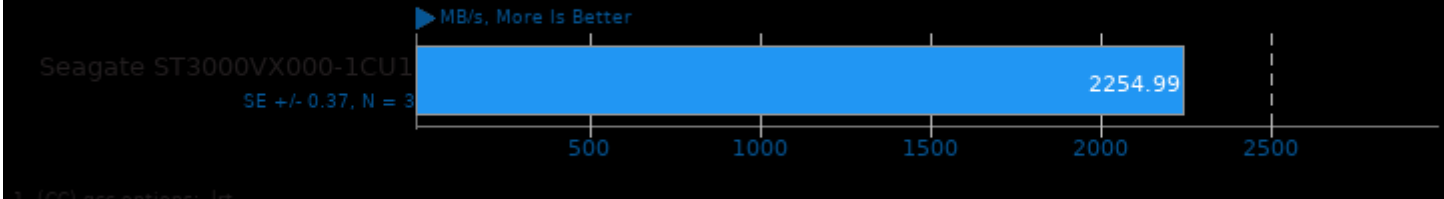
Test: Write



1. (CC) gcc options: -lrt

CacheBench

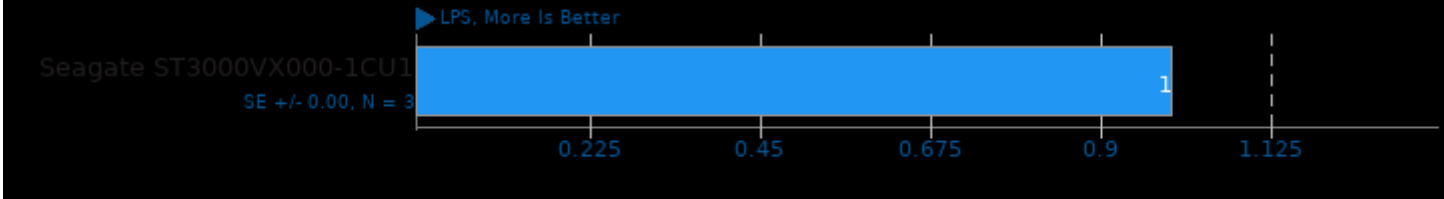
Test: Read



1. (CC) gcc options: -lrt

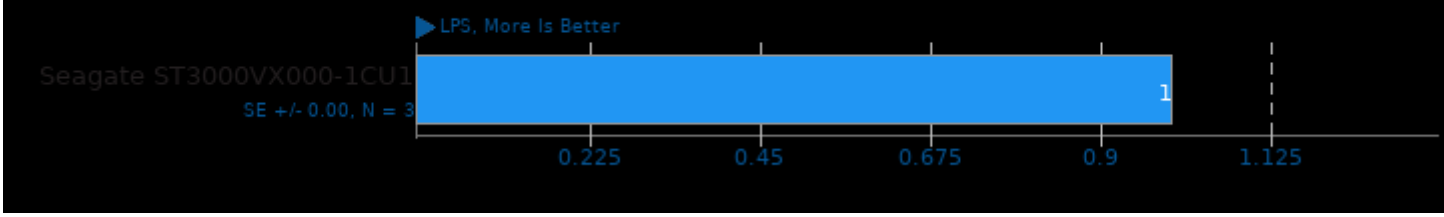
BYTE Unix Benchmark 3.6

Computational Test: Floating-Point Arithmetic



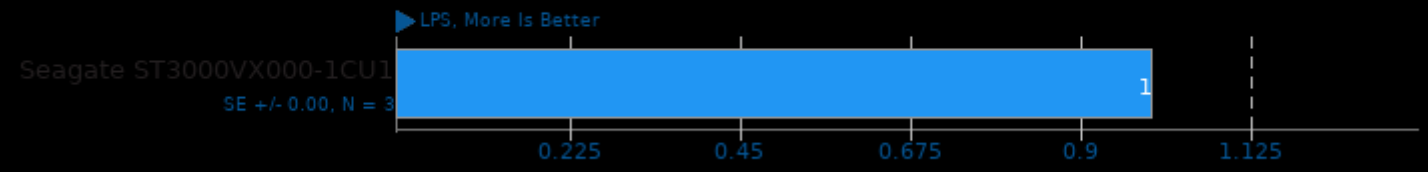
BYTE Unix Benchmark 3.6

Computational Test: Register Arithmetic



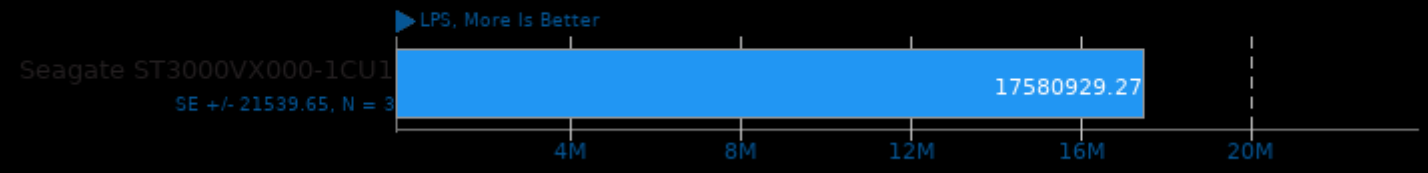
BYTE Unix Benchmark 3.6

Computational Test: Integer Arithmetic



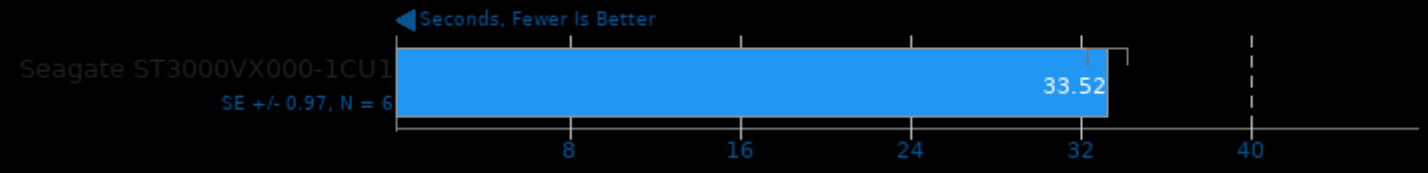
BYTE Unix Benchmark 3.6

Computational Test: Dhrystone 2



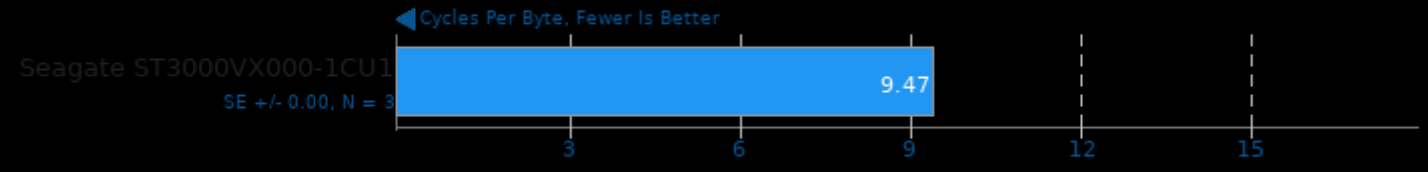
Bork File Encrypter 1.4

File Encryption Time



BLAKE2 20130131

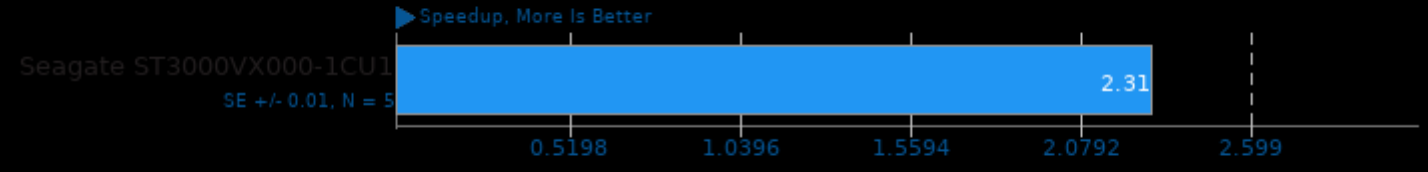
Phoronix Test Suite v5.4.1



1. (CC) gcc options: -std=gnu99 -O3 -march=native -lcrypto -lz

CLOMP 3.3

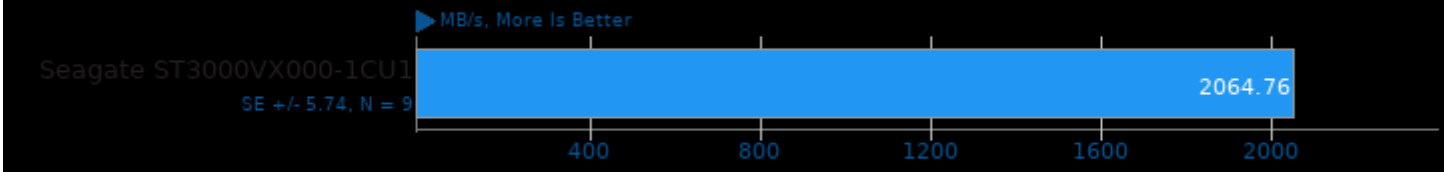
Static OMP Speedup



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

Stream 2013-01-17

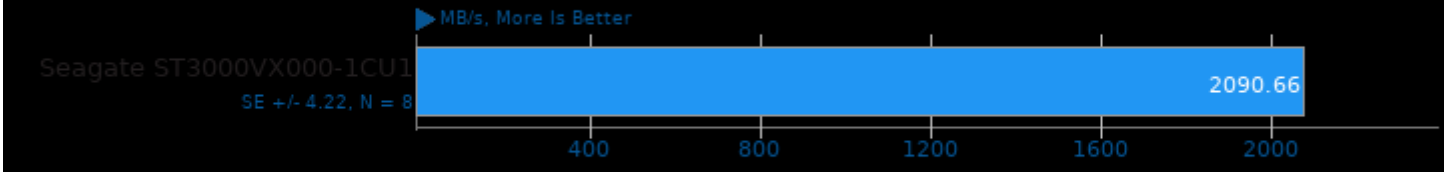
Type: Add



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

Stream 2013-01-17

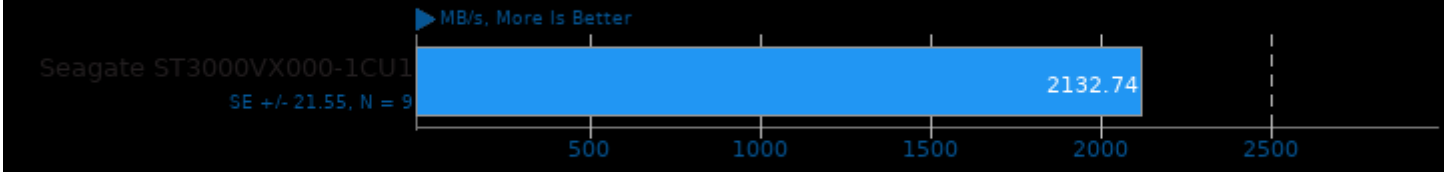
Type: Triad



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

Stream 2013-01-17

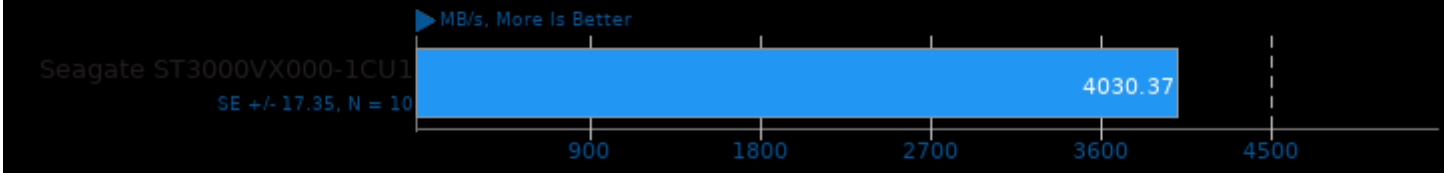
Type: Scale



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

Stream 2013-01-17

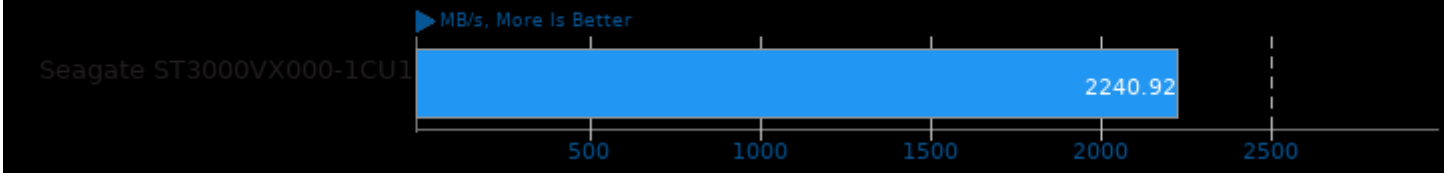
Type: Copy

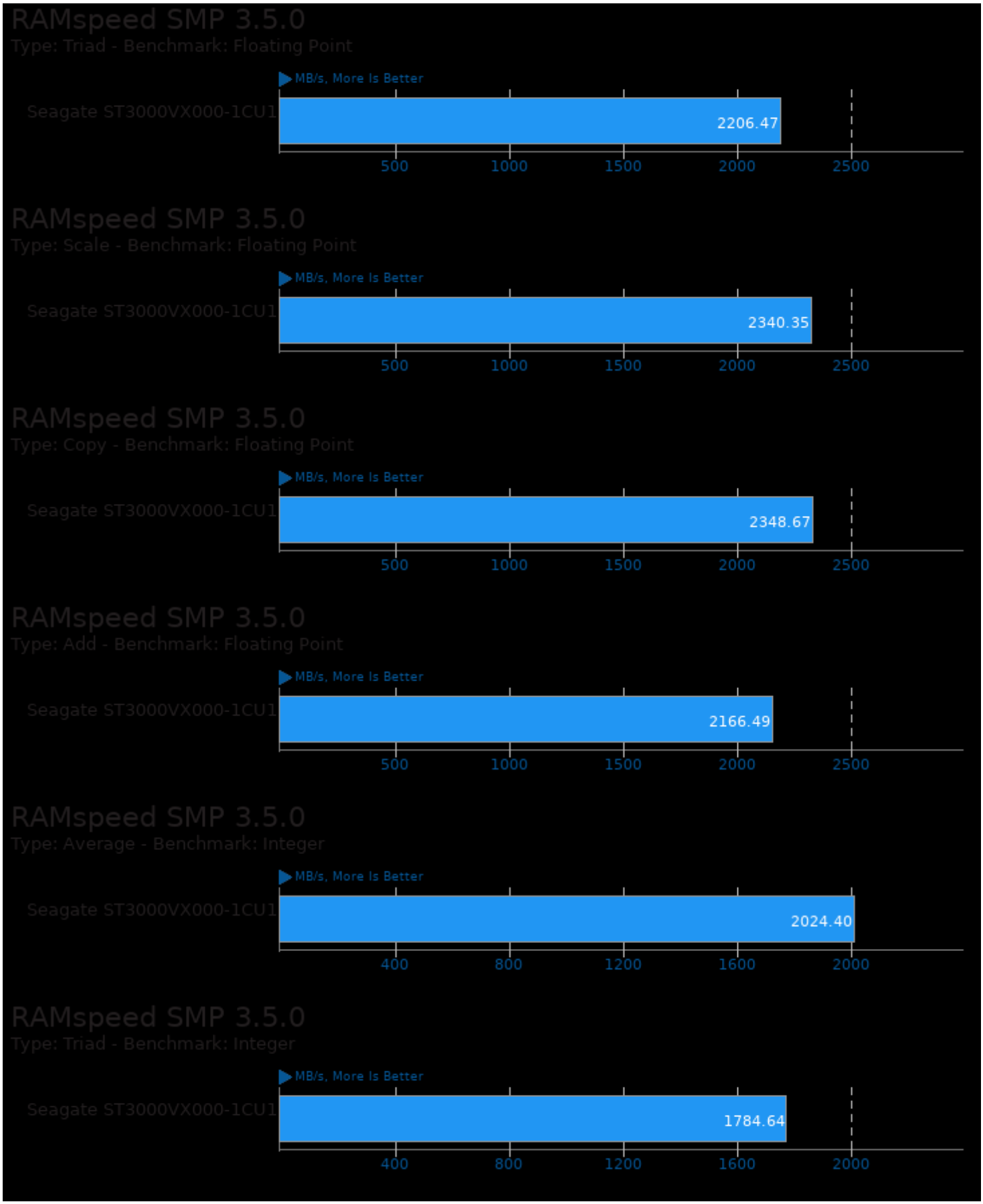


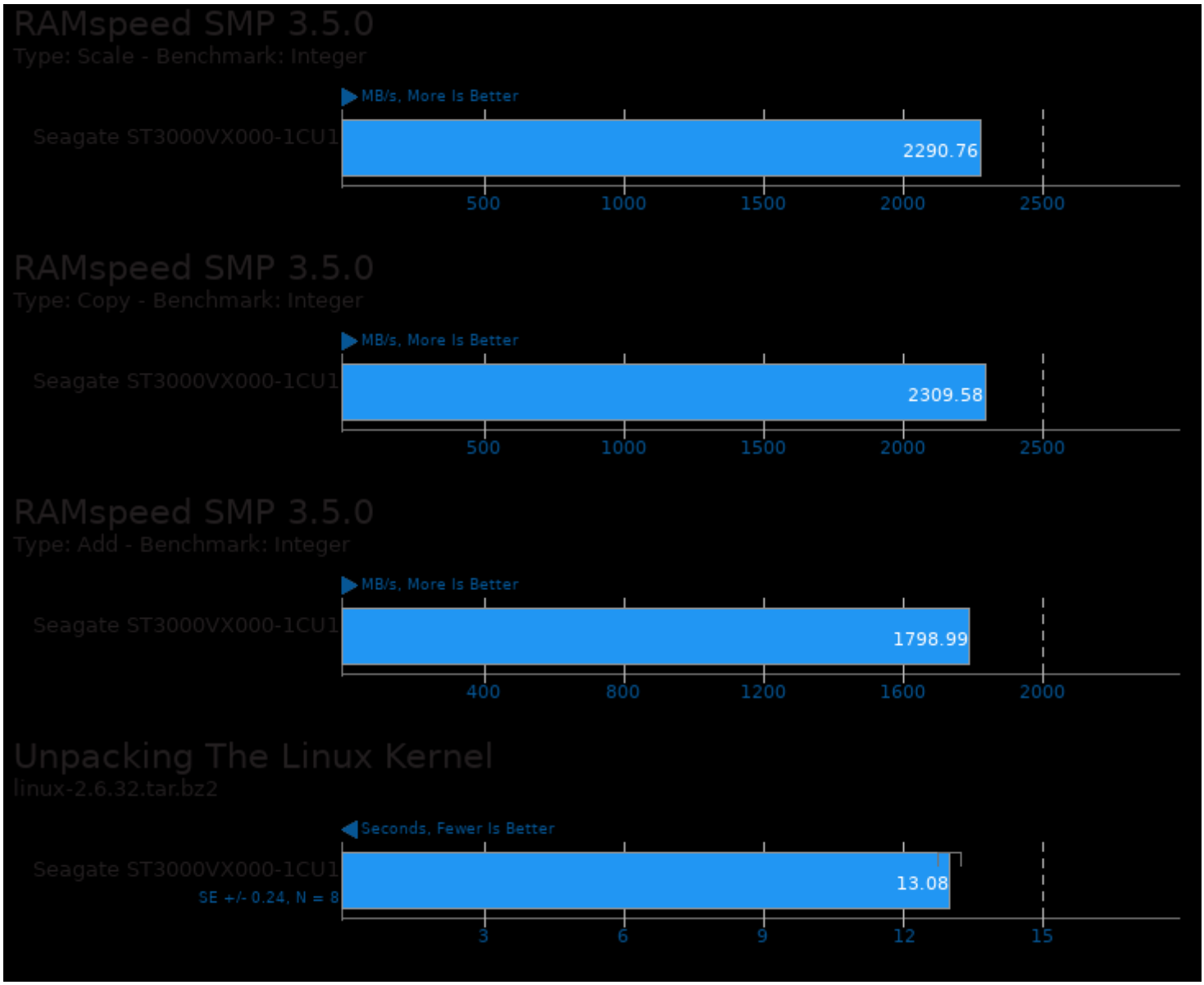
1. (CC) gcc options: -O3 -march=native -fopenmp

RAMspeed SMP 3.5.0

Type: Average - Benchmark: Floating Point




RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Floating Point
MB/s, More Is Better
Seagate ST3000VX000-1CU1
2206.47
500
1000
1500
2000
2500
RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Floating Point
MB/s, More Is Better
Seagate ST3000VX000-1CU1
2340.35
500
1000
1500
2000
2500
RAMspeed SMP 3.5.0
Type: Copy - Benchmark: Floating Point
MB/s, More Is Better
Seagate ST3000VX000-1CU1
2348.67
500
1000
1500
2000
2500
RAMspeed SMP 3.5.0
Type: Add - Benchmark: Floating Point
MB/s, More Is Better
Seagate ST3000VX000-1CU1
2166.49
500
1000
1500
2000
2500
RAMspeed SMP 3.5.0
Type: Average - Benchmark: Integer
MB/s, More Is Better
Seagate ST3000VX000-1CU1
2024.40
400
800
1200
1600
2000
RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Integer
MB/s, More Is Better
Seagate ST3000VX000-1CU1
1784.64
400
800
1200
1600
2000



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