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gauss_full

Gauss (Xeon D-1521, 64GB RAM, RAID 10)

Test Systems:

Sampling of a few benchmarks

Processor: Intel Xeon D-1521 @ 2.70GHz (8 Cores), Motherboard: Supermicro X10SDV-4C-TLN2F v2.00, Chipset: Intel Xeon E7 v4/Xeon, Memory: 1.96875 x 32768 MB DDR4-2400MT/s Samsung, Disk: 1919GB MR9271-4i, Graphics: ASPEED ASPEED Family, Network: Intel Connection X552/X557-AT

OS: Ubuntu 18.04, Kernel: 4.15.0-99-generic (x86_64), File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate performance

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Sampling of a few benchmarks	
Crypto++ - All Algorithms (MiB/s)	967.16
Standard Deviation	0.1%
Crypto++ - Keyed Algorithms (MiB/s)	359.86
Standard Deviation	0%
Crypto++ - Unkeyed Algorithms (MiB/s)	198.93
Standard Deviation	0.2%
Crypto++ - I.E.C.P.K.A (MiB/s)	3115
Standard Deviation	0.1%
FFTW - Stock - 1D FFT Size 32 (Mflops)	5670
Standard Deviation	0.1%
FFTW - Stock - 1D FFT Size 64 (Mflops)	5493
Standard Deviation	0.4%
FFTW - Stock - 2D FFT Size 32 (Mflops)	5789
Standard Deviation	0.1%
FFTW - Stock - 2D FFT Size 64 (Mflops)	4948
Standard Deviation	0.5%
FFTW - Stock - 1D FFT Size 128 (Mflops)	4925
Standard Deviation	0.8%
FFTW - Stock - 1D FFT Size 256 (Mflops)	4825
Standard Deviation	1.4%
FFTW - Stock - 1D FFT Size 512 (Mflops)	4955
Standard Deviation	0.6%
FFTW - Stock - 2D FFT Size 128 (Mflops)	4459
Standard Deviation	0.2%
FFTW - Stock - 2D FFT Size 256 (Mflops)	4215
Standard Deviation	1.5%
FFTW - Stock - 2D FFT Size 512 (Mflops)	4125
Standard Deviation	1.5%
FFTW - Stock - 1D FFT Size 1024 (Mflops)	4762
Standard Deviation	0.3%
FFTW - Stock - 1D FFT Size 2048 (Mflops)	4551
Standard Deviation	0.6%
FFTW - Stock - 1D FFT Size 4096 (Mflops)	4454
Standard Deviation	0.3%
FFTW - Stock - 2D FFT Size 1024 (Mflops)	3759
Standard Deviation	0.2%
FFTW - Stock - 2D FFT Size 2048 (Mflops)	3499
Standard Deviation	0.4%
FFTW - Stock - 2D FFT Size 4096 (Mflops)	3318
Standard Deviation	2.9%
FFTW - Float + SSE - 1D FFT Size 32 (Mflops)	7941
Standard Deviation	1.6%
FFTW - Float + SSE - 1D FFT Size 64 (Mflops)	11381
Standard Deviation	1.5%
FFTW - Float + SSE - 2D FFT Size 32 (Mflops)	18684
Standard Deviation	0.7%
FFTW - Float + SSE - 2D FFT Size 64 (Mflops)	19100
Standard Deviation	0.9%
FFTW - Float + SSE - 1D FFT Size 128 (Mflops)	12774
Standard Deviation	1.2%
FFTW - Float + SSE - 1D FFT Size 256 (Mflops)	20387
Standard Deviation	3.1%

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FFTW - Float + SSE - 1D FFT Size 512 (Mflops)	27669
Standard Deviation	1.8%
FFTW - Float + SSE - 2D FFT Size 128 (Mflops)	18291
Standard Deviation	0.6%
FFTW - Float + SSE - 2D FFT Size 256 (Mflops)	18218
Standard Deviation	1.1%
FFTW - Float + SSE - 2D FFT Size 512 (Mflops)	18978
Standard Deviation	1.1%
FFTW - Float + SSE - 1D FFT Size 1024 (Mflops)	30288
Standard Deviation	1.3%
FFTW - Float + SSE - 1D FFT Size 2048 (Mflops)	26598
Standard Deviation	1.3%
FFTW - Float + SSE - 1D FFT Size 4096 (Mflops)	24244
Standard Deviation	2.8%
FFTW - Float + SSE - 2D FFT Size 1024 (Mflops)	15586
Standard Deviation	0.6%
FFTW - Float + SSE - 2D FFT Size 2048 (Mflops)	13125
Standard Deviation	1.3%
FFTW - Float + SSE - 2D FFT Size 4096 (Mflops)	12517
Standard Deviation	0.3%
Timed HMMer Search - P.D.S (sec)	11.26
Standard Deviation	0%
Timed MAFFT Alignment - M.S.A (sec)	5.40
Standard Deviation	0.7%
SciMark - Composite (Mflops)	436.49
Standard Deviation	0.1%
SciMark - Monte Carlo (Mflops)	94.51
Standard Deviation	0%
SciMark - F.F.T (Mflops)	140.01
Standard Deviation	0.7%
SciMark - S.M.M (Mflops)	463.44
Standard Deviation	0.1%
SciMark - D.L.M.F (Mflops)	593.63
Standard Deviation	0.1%
SciMark - J.S.O.R (Mflops)	890.29
Standard Deviation	0.1%
TSCP - A.C.P (Nodes/s)	929113
Standard Deviation	0.1%
Himeno Benchmark - P.P.S (MFLOPS)	2587
Standard Deviation	0%
7-Zip Compression - C.S.T (MIPS)	16173
Standard Deviation	1.1%
Stockfish - Total Time (Nodes/s)	7581375
Standard Deviation	1%
Build2 - Time To Compile (sec)	288.69
Standard Deviation	1.2%
C-Ray - Total Time - 4.1.R.P.P (sec)	298.30
Standard Deviation	0%
AOBench - 2048 x 2048 - Total Time (sec)	56.12
Standard Deviation	0.4%
XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)	66.24
Standard Deviation	0.9%
FLAC Audio Encoding - WAV To FLAC (sec)	15.72

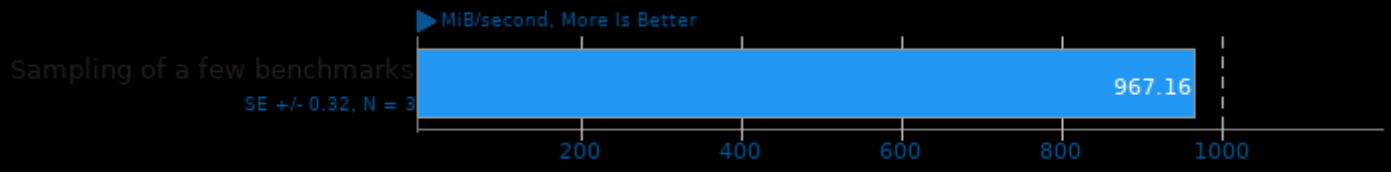
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Standard Deviation	0.1%
LAME MP3 Encoding - WAV To MP3 (sec)	13.39
Standard Deviation	0.4%
Tachyon - Total Time (sec)	324.58
Standard Deviation	0.1%
OpenSSL - R.4.b.P (Signs/sec)	783.03
Standard Deviation	0.9%
CppPerformanceBenchmarks - Atol (sec)	100.97
Standard Deviation	0.1%
CppPerformanceBenchmarks - Ctype (sec)	49.89
Standard Deviation	0%
CppPerformanceBenchmarks - Math Library (sec)	548.89
Standard Deviation	0.1%
CppPerformanceBenchmarks - Rand Numbers (sec)	1529
Standard Deviation	0%
CppPerformanceBenchmarks - Stepanov Vector (sec)	117.03
Standard Deviation	0%
CppPerformanceBenchmarks - Function Objects (sec)	21.68
Standard Deviation	0%
CppPerformanceBenchmarks - S.A (sec)	45.25
Standard Deviation	0%

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Crypto++ 8.2

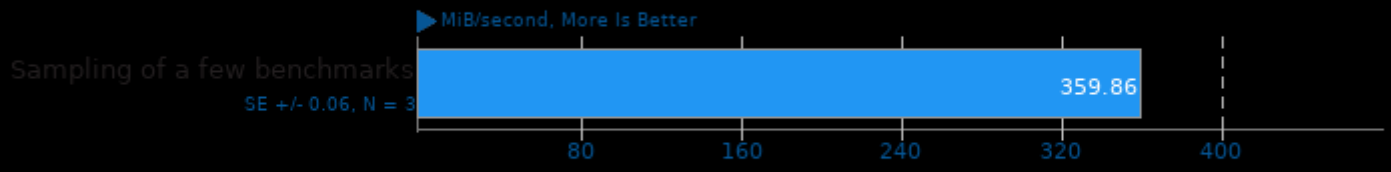
Test: All Algorithms



1. (CXX) g++ options: -g2 -O3 -fPIC -pthread -pipe

Crypto++ 8.2

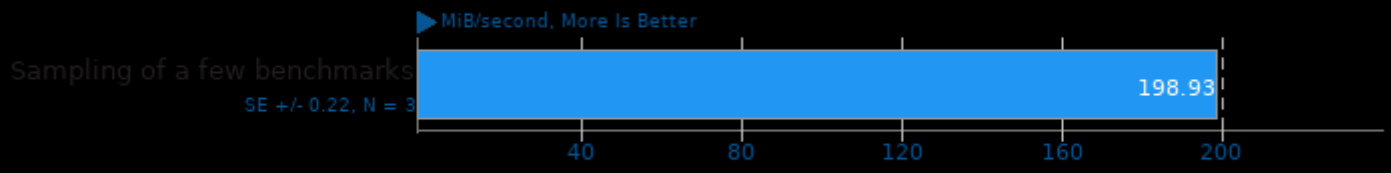
Test: Keyed Algorithms



1. (CXX) g++ options: -g2 -O3 -fPIC -pthread -pipe

Crypto++ 8.2

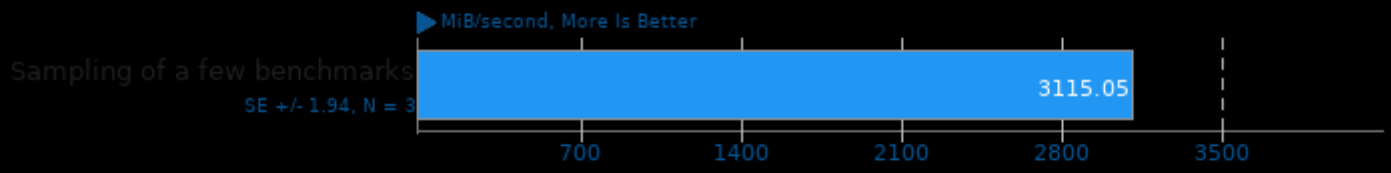
Test: Unkeyed Algorithms



1. (CXX) g++ options: -g2 -O3 -fPIC -pthread -pipe

Crypto++ 8.2

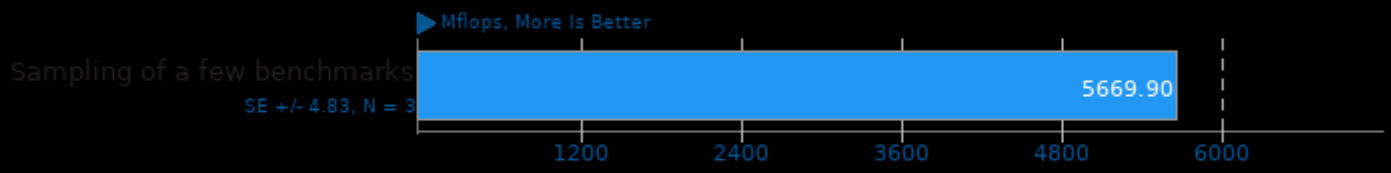
Test: Integer + Elliptic Curve Public Key Algorithms



1. (CXX) g++ options: -g2 -O3 -fPIC -pthread -pipe

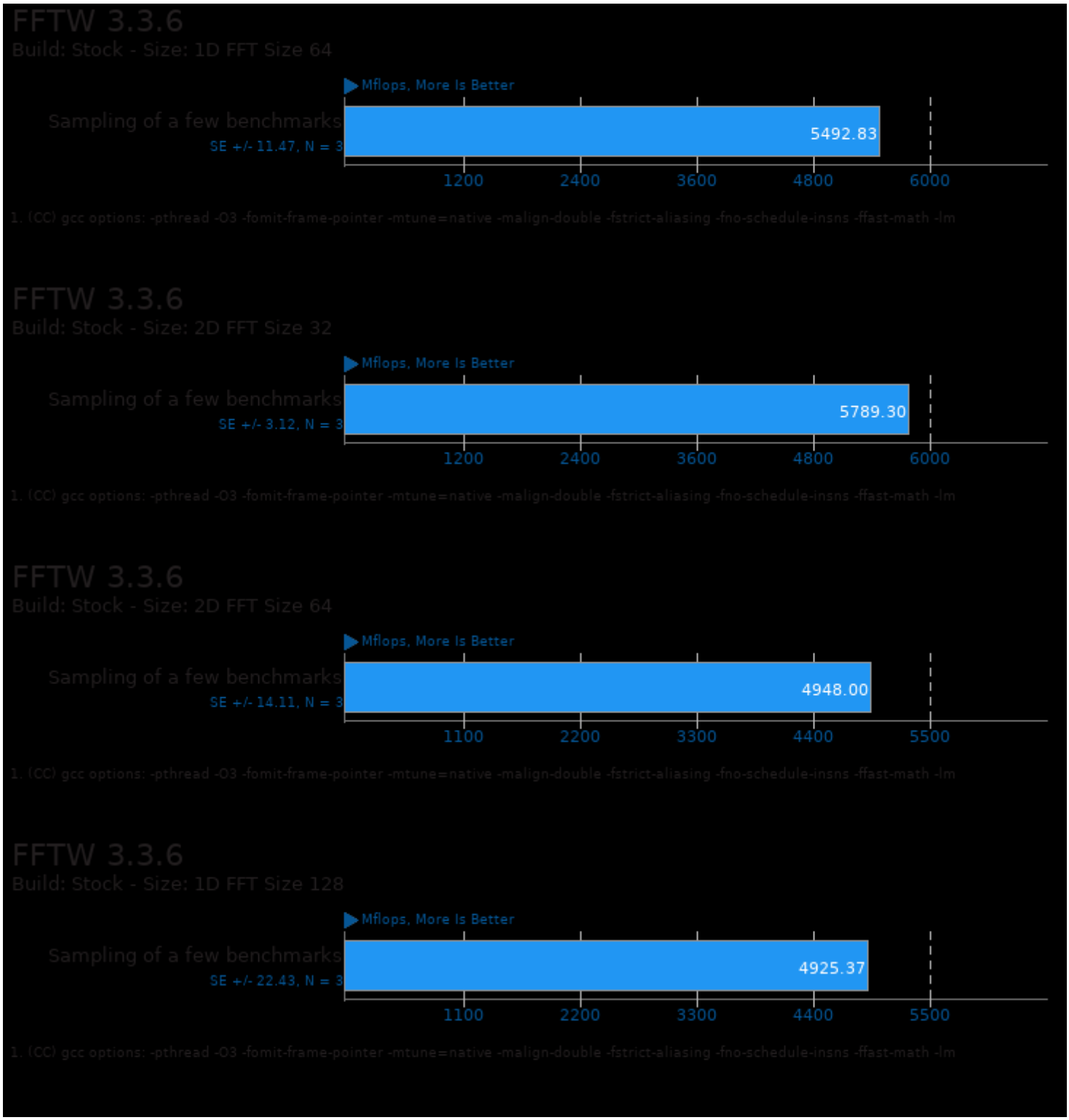
FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 32

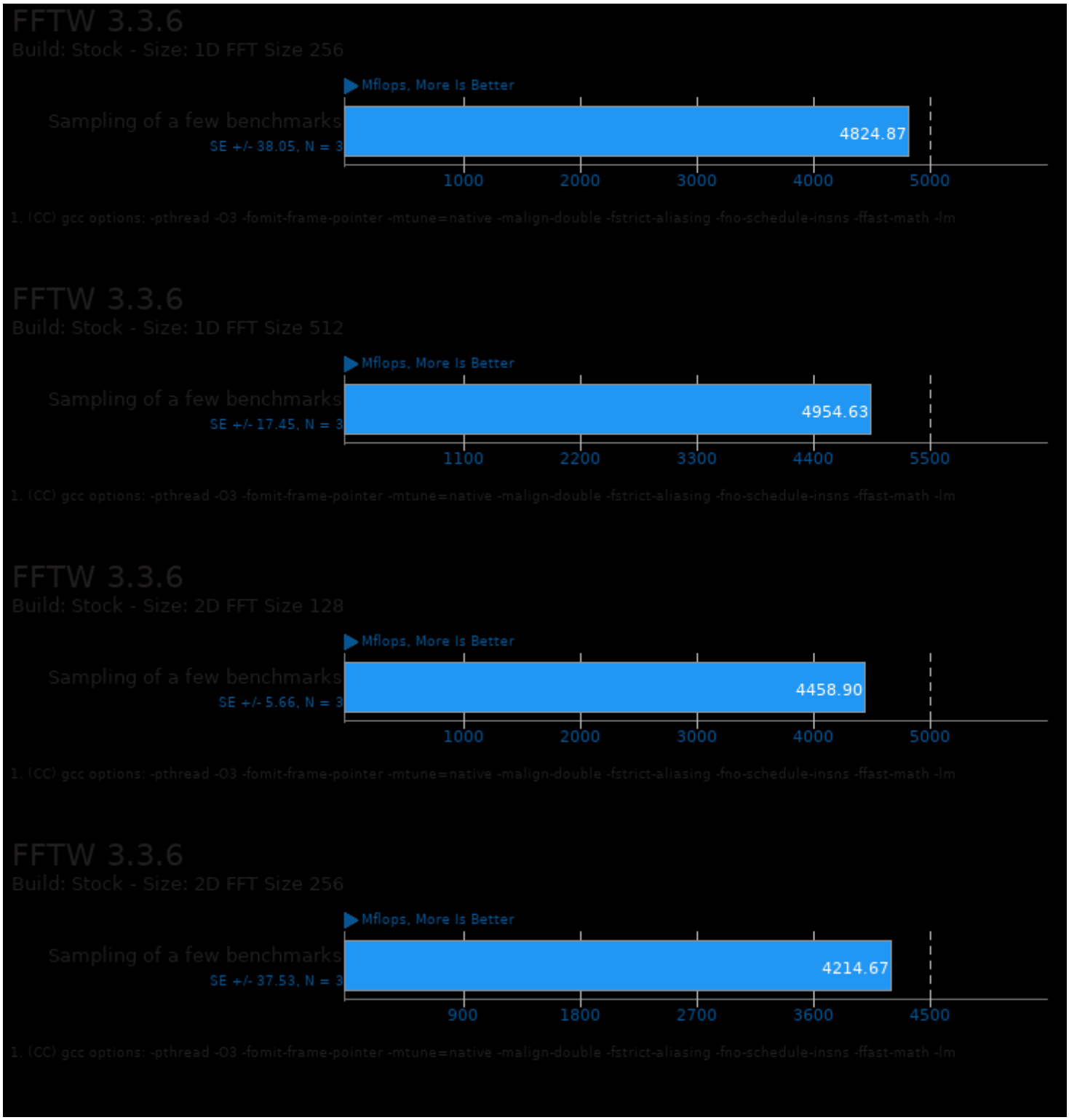


1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

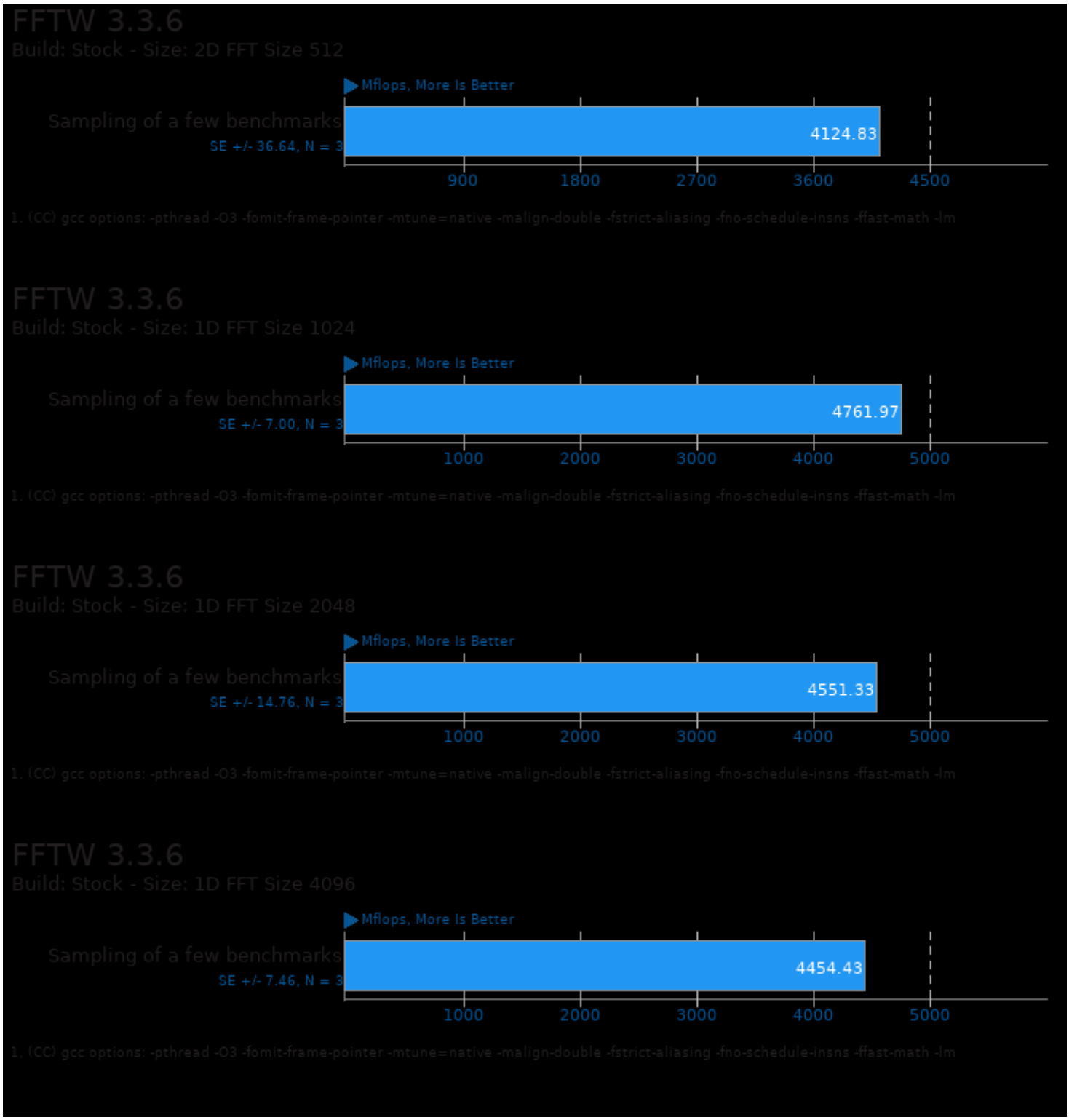
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FFTW 3.3.6
Build: Stock - Size: 1D FFT Size 64
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 11.47, N = 3
5492.83
1200
2400
3600
4800
6000
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 2D FFT Size 32
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 3.12, N = 3
5789.30
1200
2400
3600
4800
6000
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 2D FFT Size 64
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 14.11, N = 3
4948.00
1100
2200
3300
4400
5500
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 1D FFT Size 128
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 22.43, N = 3
4925.37
1100
2200
3300
4400
5500
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

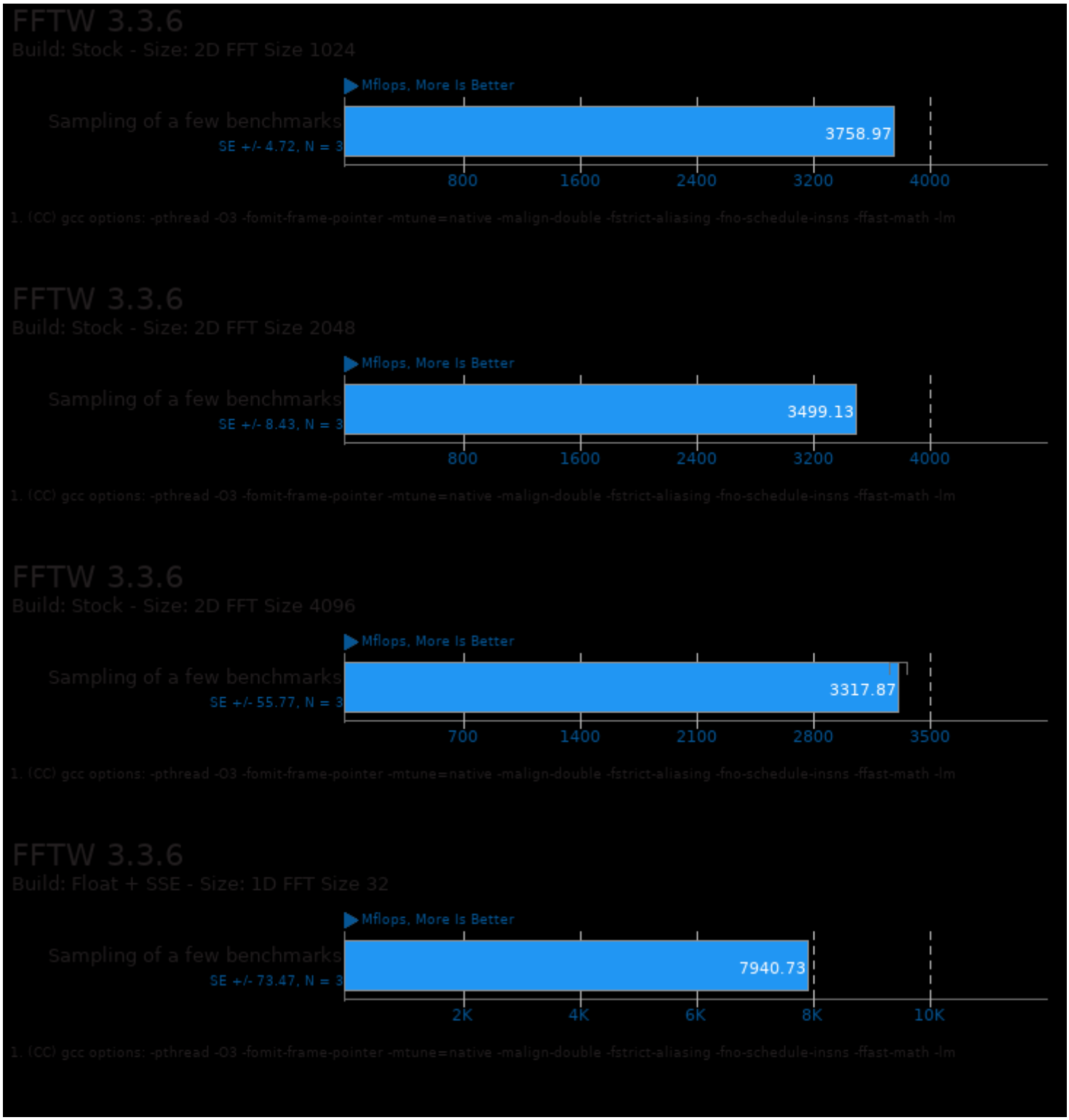
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FFTW 3.3.6
Build: Stock - Size: 1D FFT Size 256
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 38.05, N = 3
4824.87
1000
2000
3000
4000
5000
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 1D FFT Size 512
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 17.45, N = 3
4954.63
1100
2200
3300
4400
5500
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 2D FFT Size 128
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 5.66, N = 3
4458.90
1000
2000
3000
4000
5000
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 2D FFT Size 256
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 37.53, N = 3
4214.67
900
1800
2700
3600
4500
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

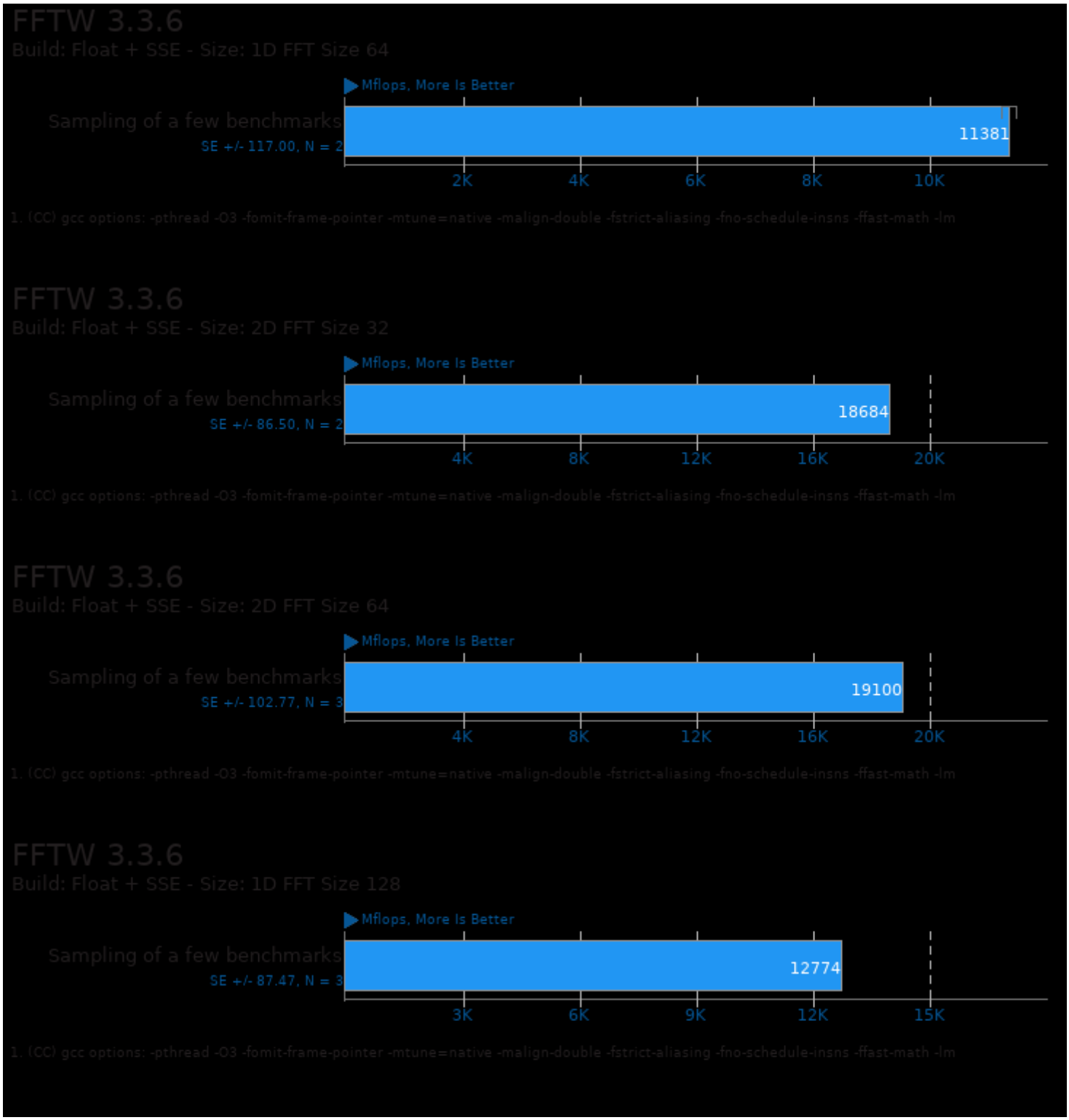
gauss_full


FFTW 3.3.6
Build: Stock - Size: 2D FFT Size 512
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 36.64, N = 3
4124.83
900
1800
2700
3600
4500
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 1D FFT Size 1024
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 7.00, N = 3
4761.97
1000
2000
3000
4000
5000
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 1D FFT Size 2048
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 14.76, N = 3
4551.33
1000
2000
3000
4000
5000
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 1D FFT Size 4096
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 7.46, N = 3
4454.43
1000
2000
3000
4000
5000
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

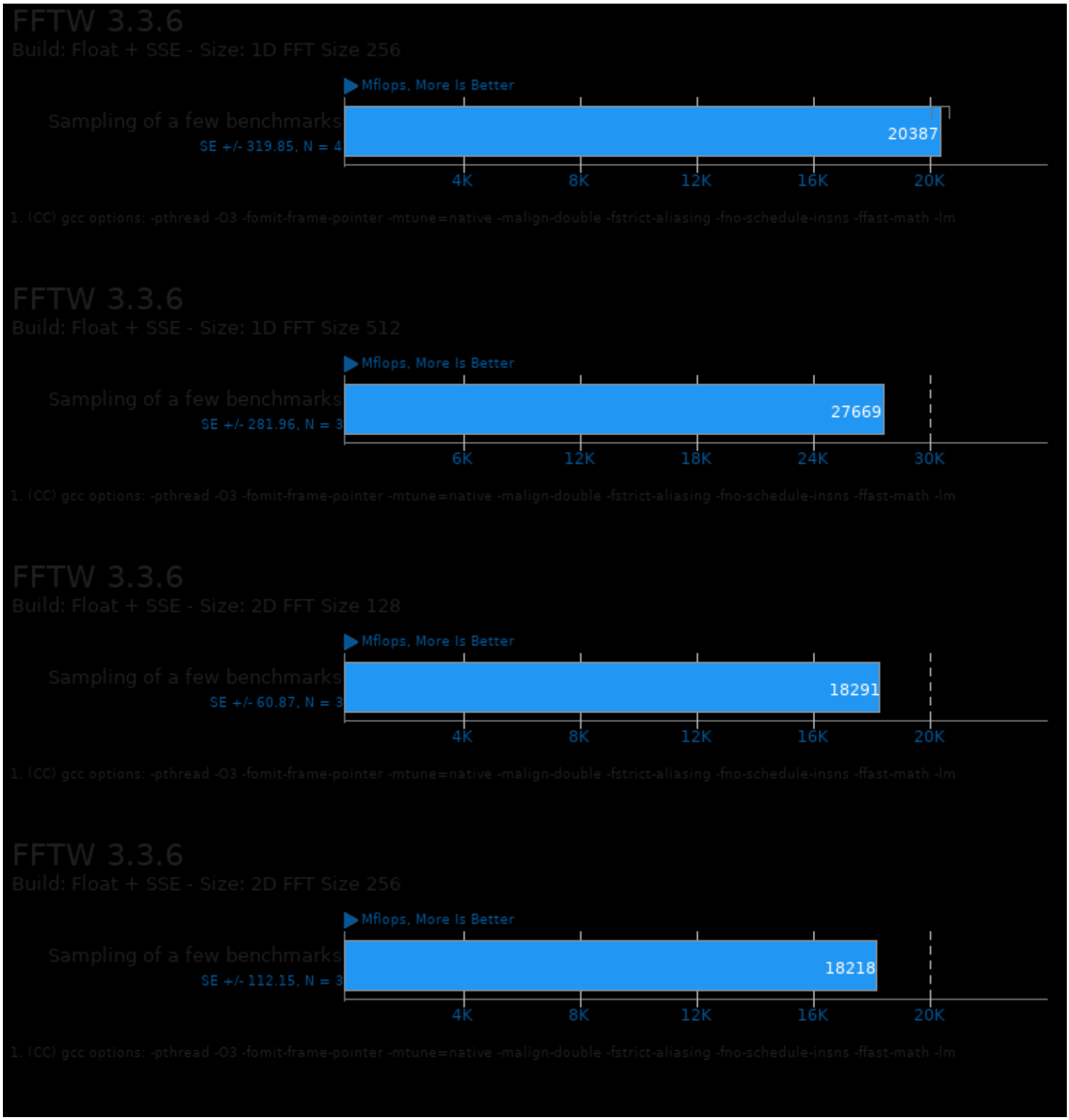
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FFTW 3.3.6
Build: Stock - Size: 2D FFT Size 1024
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 4.72, N = 3
3758.97
800
1600
2400
3200
4000
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 2D FFT Size 2048
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 8.43, N = 3
3499.13
800
1600
2400
3200
4000
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Stock - Size: 2D FFT Size 4096
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 55.77, N = 3
3317.87
700
1400
2100
2800
3500
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Float + SSE - Size: 1D FFT Size 32
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 73.47, N = 3
7940.73
2K
4K
6K
8K
10K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

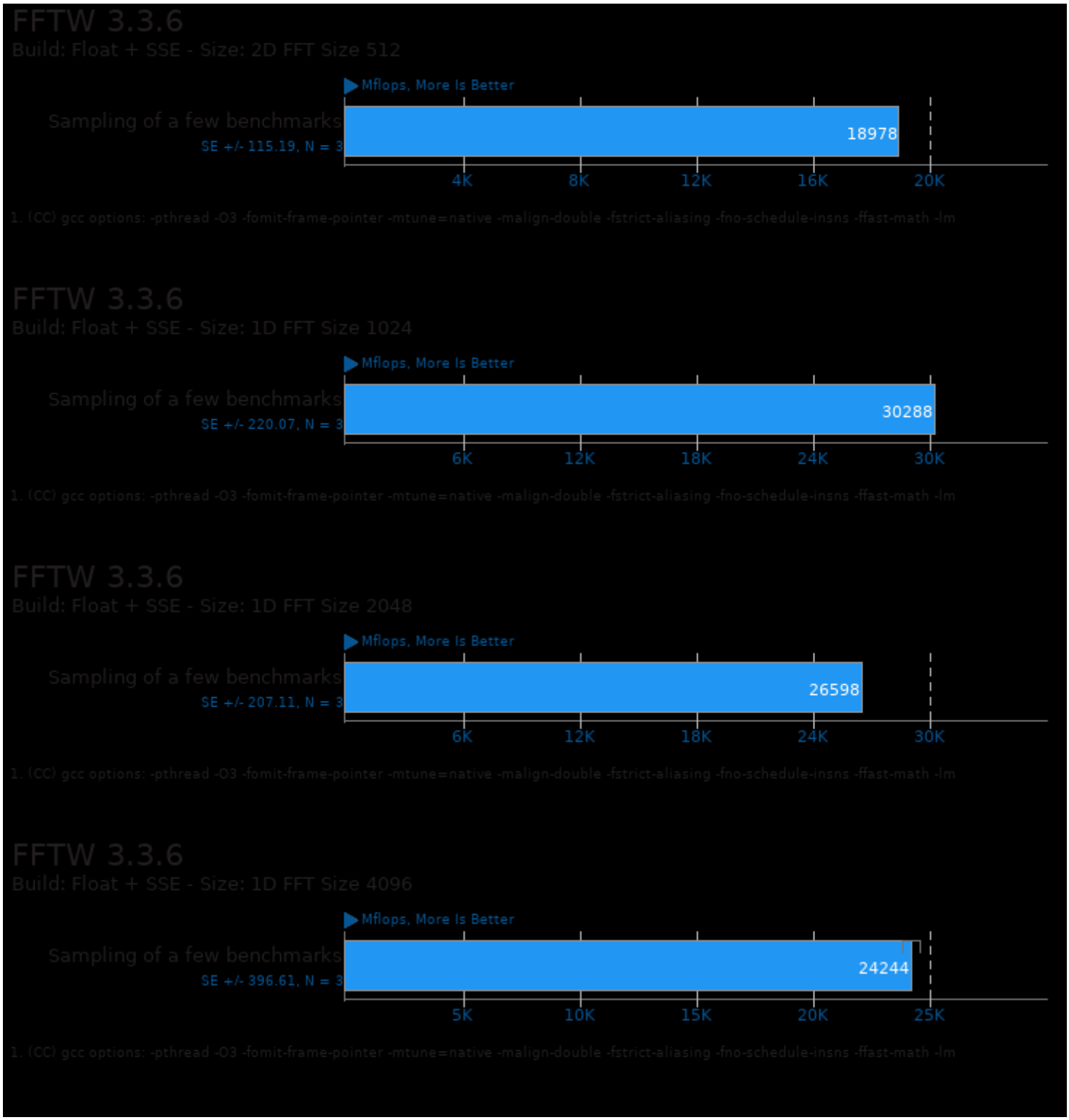
gauss_full


FFTW 3.3.6
Build: Float + SSE - Size: 1D FFT Size 64
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 117.00, N = 2
11381
2K
4K
6K
8K
10K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Float + SSE - Size: 2D FFT Size 32
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 86.50, N = 2
18684
4K
8K
12K
16K
20K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Float + SSE - Size: 2D FFT Size 64
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 102.77, N = 3
19100
4K
8K
12K
16K
20K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Float + SSE - Size: 1D FFT Size 128
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 87.47, N = 3
12774
3K
6K
9K
12K
15K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

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FFTW 3.3.6
Build: Float + SSE - Size: 1D FFT Size 256
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 319.85, N = 4
20387
4K
8K
12K
16K
20K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Float + SSE - Size: 1D FFT Size 512
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 281.96, N = 3
27669
6K
12K
18K
24K
30K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Float + SSE - Size: 2D FFT Size 128
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 60.87, N = 3
18291
4K
8K
12K
16K
20K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Float + SSE - Size: 2D FFT Size 256
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 112.15, N = 3
18218
4K
8K
12K
16K
20K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

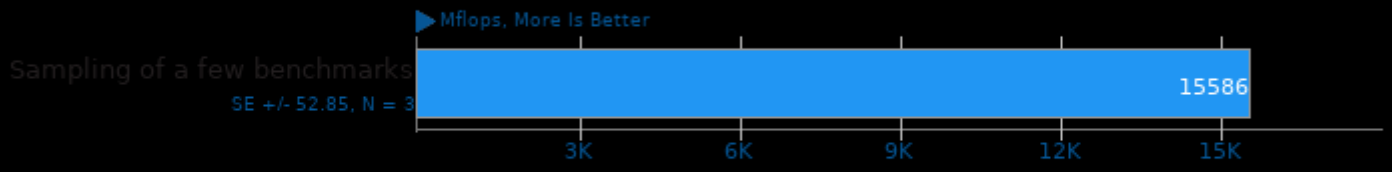
gauss_full


FFTW 3.3.6
Build: Float + SSE - Size: 2D FFT Size 512
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 115.19, N = 3
18978
4K
8K
12K
16K
20K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Float + SSE - Size: 1D FFT Size 1024
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 220.07, N = 3
30288
6K
12K
18K
24K
30K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Float + SSE - Size: 1D FFT Size 2048
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 207.11, N = 3
26598
6K
12K
18K
24K
30K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm
FFTW 3.3.6
Build: Float + SSE - Size: 1D FFT Size 4096
Mflops, More Is Better
Sampling of a few benchmarks
SE +/- 396.61, N = 3
24244
5K
10K
15K
20K
25K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

gauss_full

FFTW 3.3.6

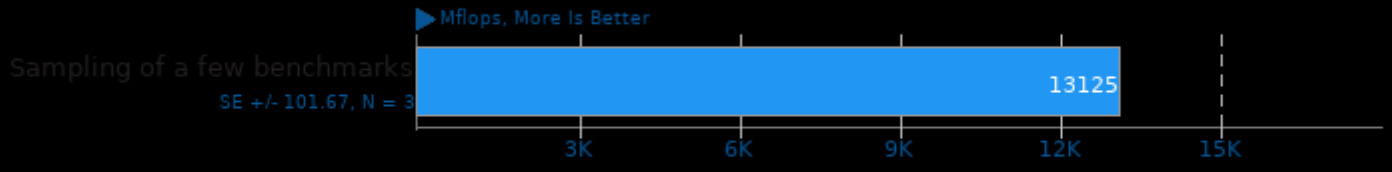
Build: Float + SSE - Size: 2D FFT Size 1024



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

FFTW 3.3.6

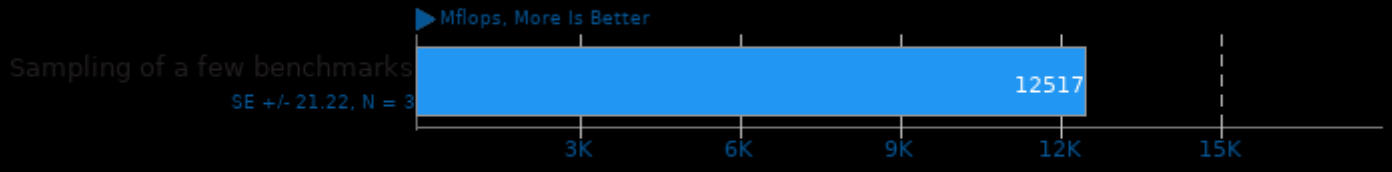
Build: Float + SSE - Size: 2D FFT Size 2048



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

FFTW 3.3.6

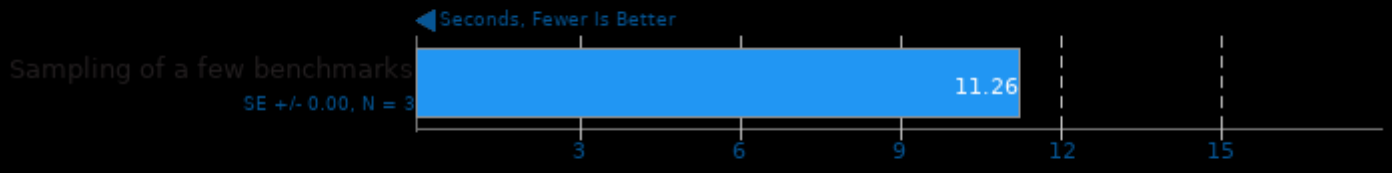
Build: Float + SSE - Size: 2D FFT Size 4096



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

Timed HMMer Search 2.3.2

Pfam Database Search

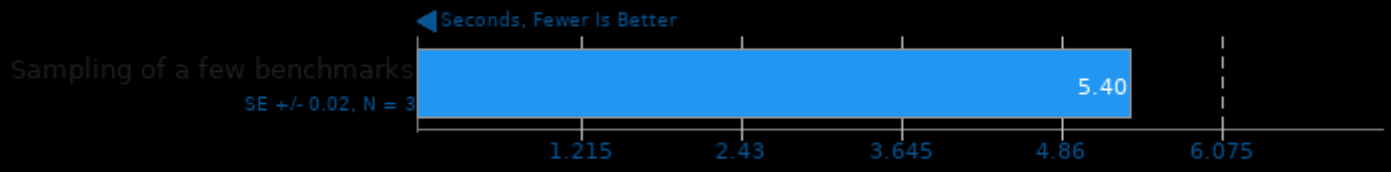


1. (CC) gcc options: -O2 -pthread -lhmmer -lsquid -lm

gauss_full

Timed MAFFT Alignment 7.392

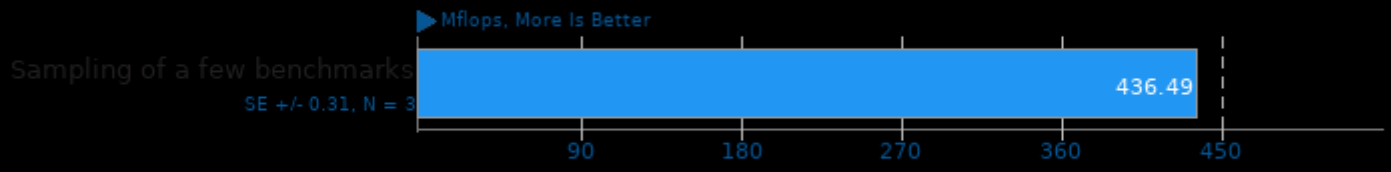
Multiple Sequence Alignment



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

SciMark 2.0

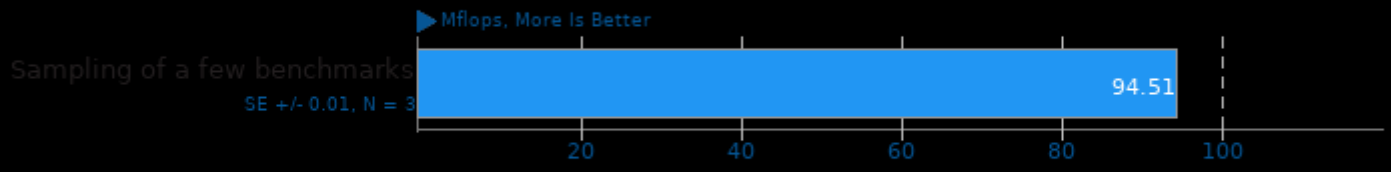
Computational Test: Composite



1. (CC) gcc options: -lm

SciMark 2.0

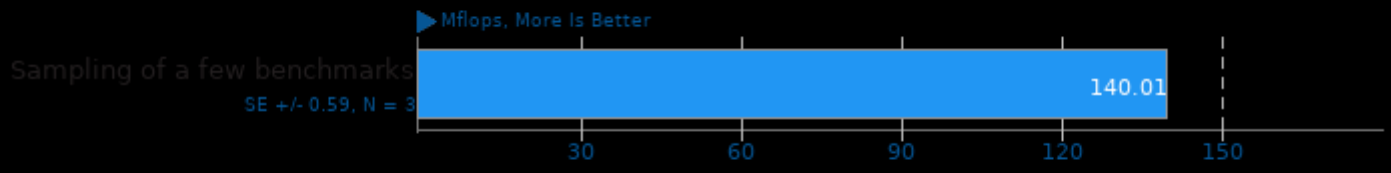
Computational Test: Monte Carlo



1. (CC) gcc options: -lm

SciMark 2.0

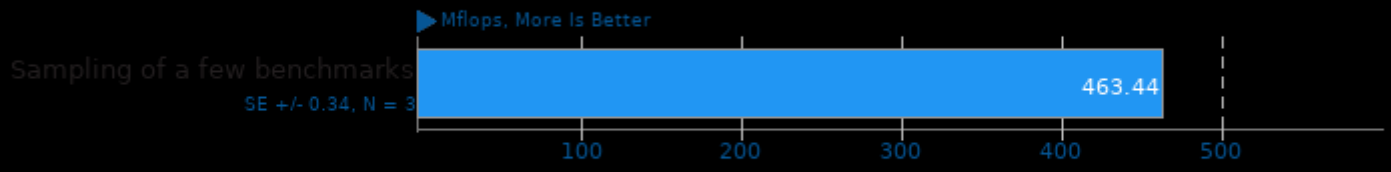
Computational Test: Fast Fourier Transform



1. (CC) gcc options: -lm

SciMark 2.0

Computational Test: Sparse Matrix Multiply

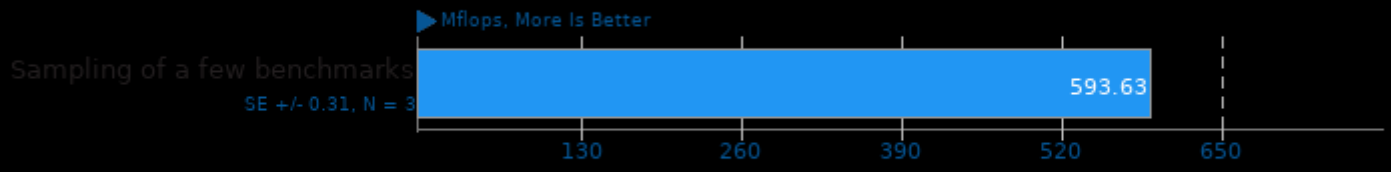


1. (CC) gcc options: -lm

gauss_full

SciMark 2.0

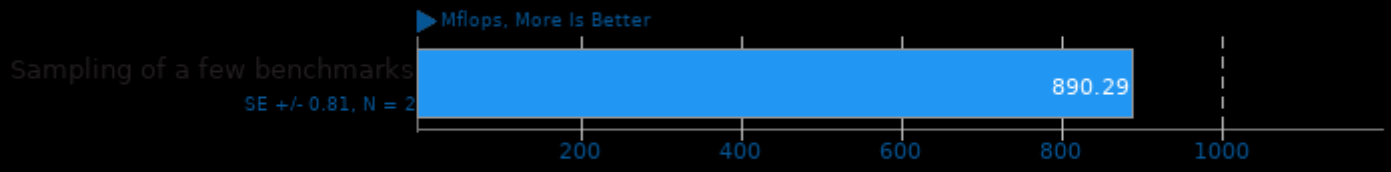
Computational Test: Dense LU Matrix Factorization



1. (CC) gcc options: -lm

SciMark 2.0

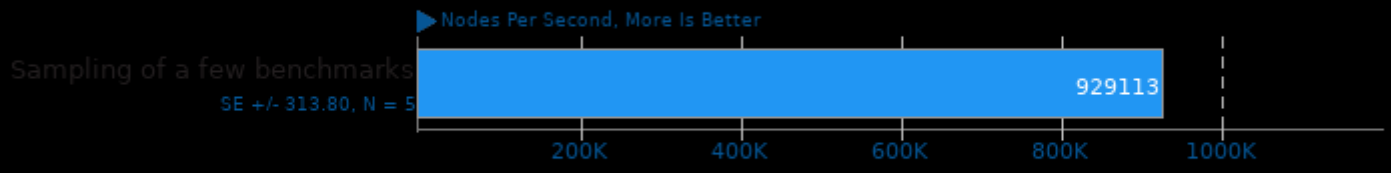
Computational Test: Jacobi Successive Over-Relaxation



1. (CC) gcc options: -lm

TSCP 1.81

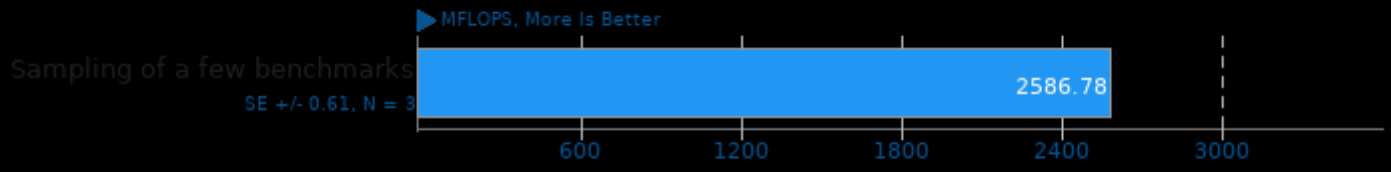
AI Chess Performance



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

Himeno Benchmark 3.0

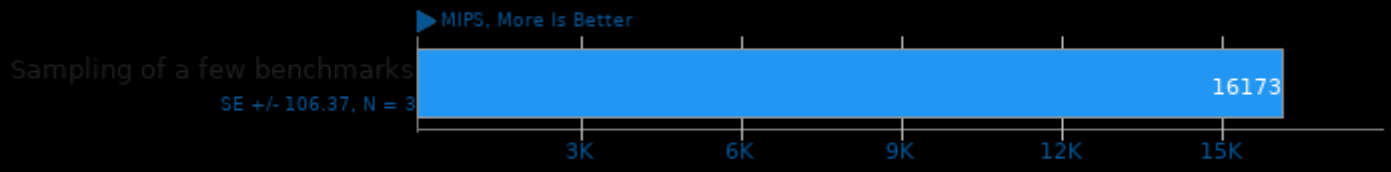
Poisson Pressure Solver



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

7-Zip Compression 16.02

Compress Speed Test

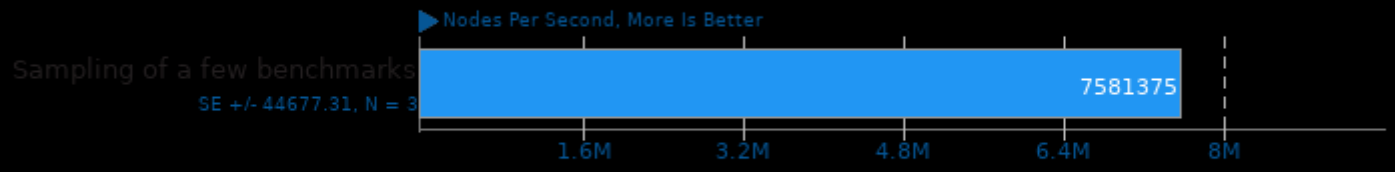


1. (CXX) g++ options: -pipe -lpthread

gauss_full

Stockfish 9

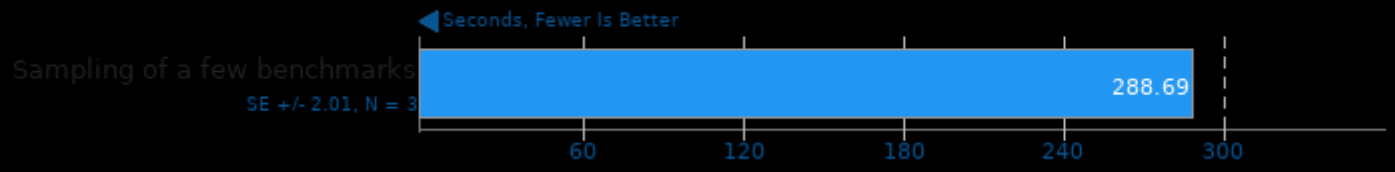
Total Time



1. (CXX) g++ options: -m64 -lpthread -fno-exceptions -std=c++11 -pedantic -O3 -msse -msse3 -mpopcnt -flto

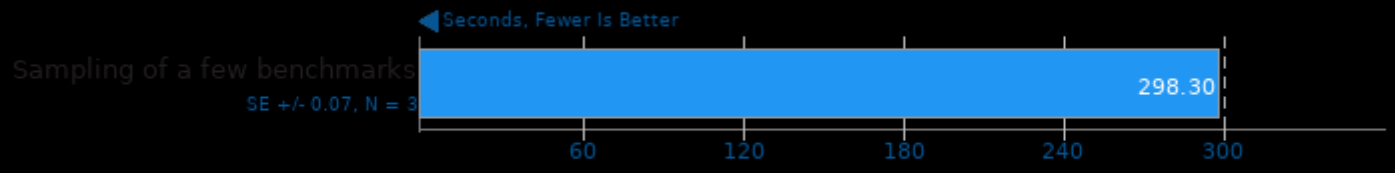
Build2 0.12

Time To Compile



C-Ray 1.1

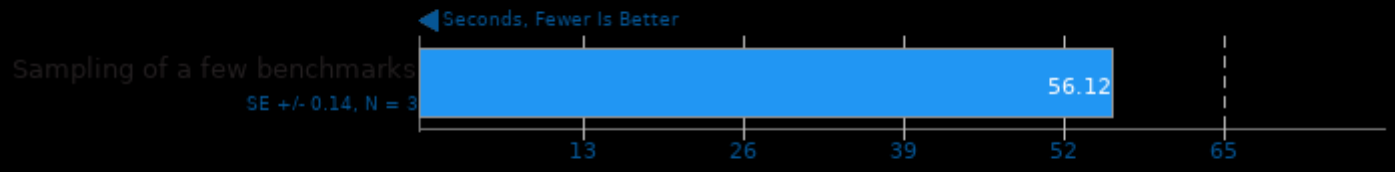
Total Time - 4K, 16 Rays Per Pixel



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

AOBench

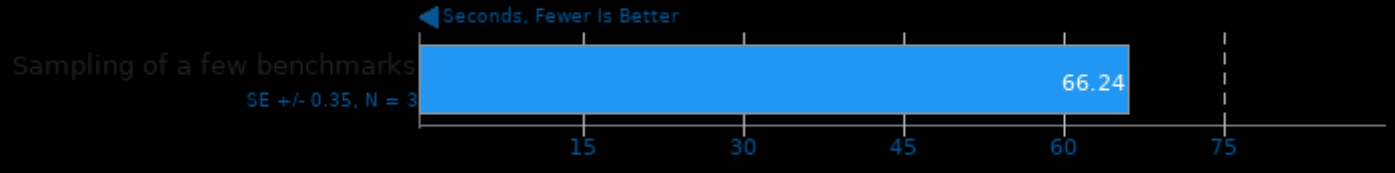
Size: 2048 x 2048 - Total Time



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

XZ Compression 5.2.4

Compressing ubuntu-16.04.3-server-i386.img, Compression Level 9

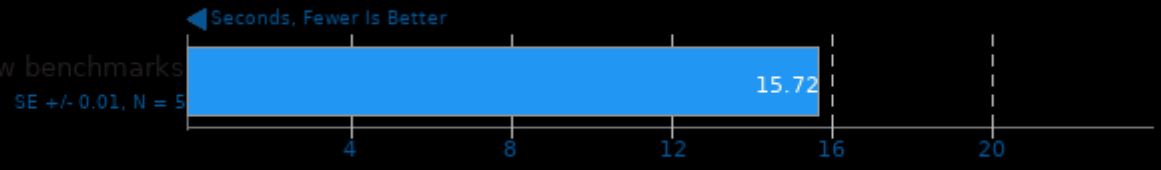


1. (CC) gcc options: -pthread -fvisibility=hidden -O2

gauss_full

FLAC Audio Encoding 1.3.2

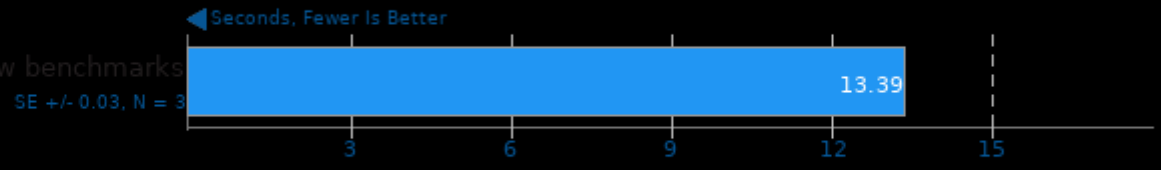
WAV To FLAC



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

LAME MP3 Encoding 3.100

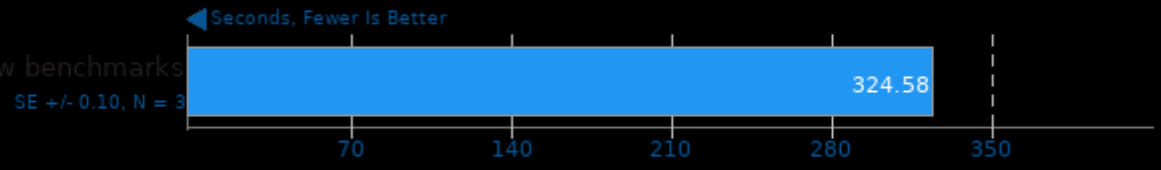
WAV To MP3



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

Tachyon 0.99b6

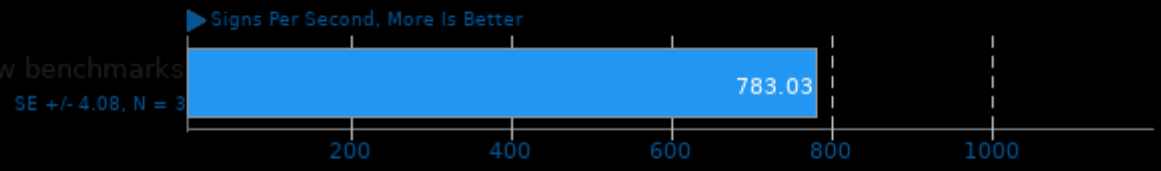
Total Time



1. (CC) gcc options: -m64 -O3 -fomit-frame-pointer -ffast-math -ltachyon -lm -lpthread

OpenSSL 1.1.1

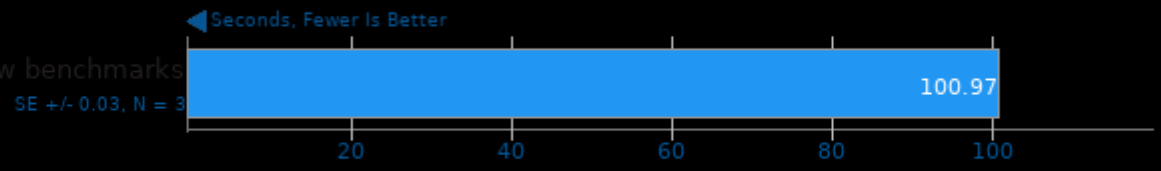
RSA 4096-bit Performance



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

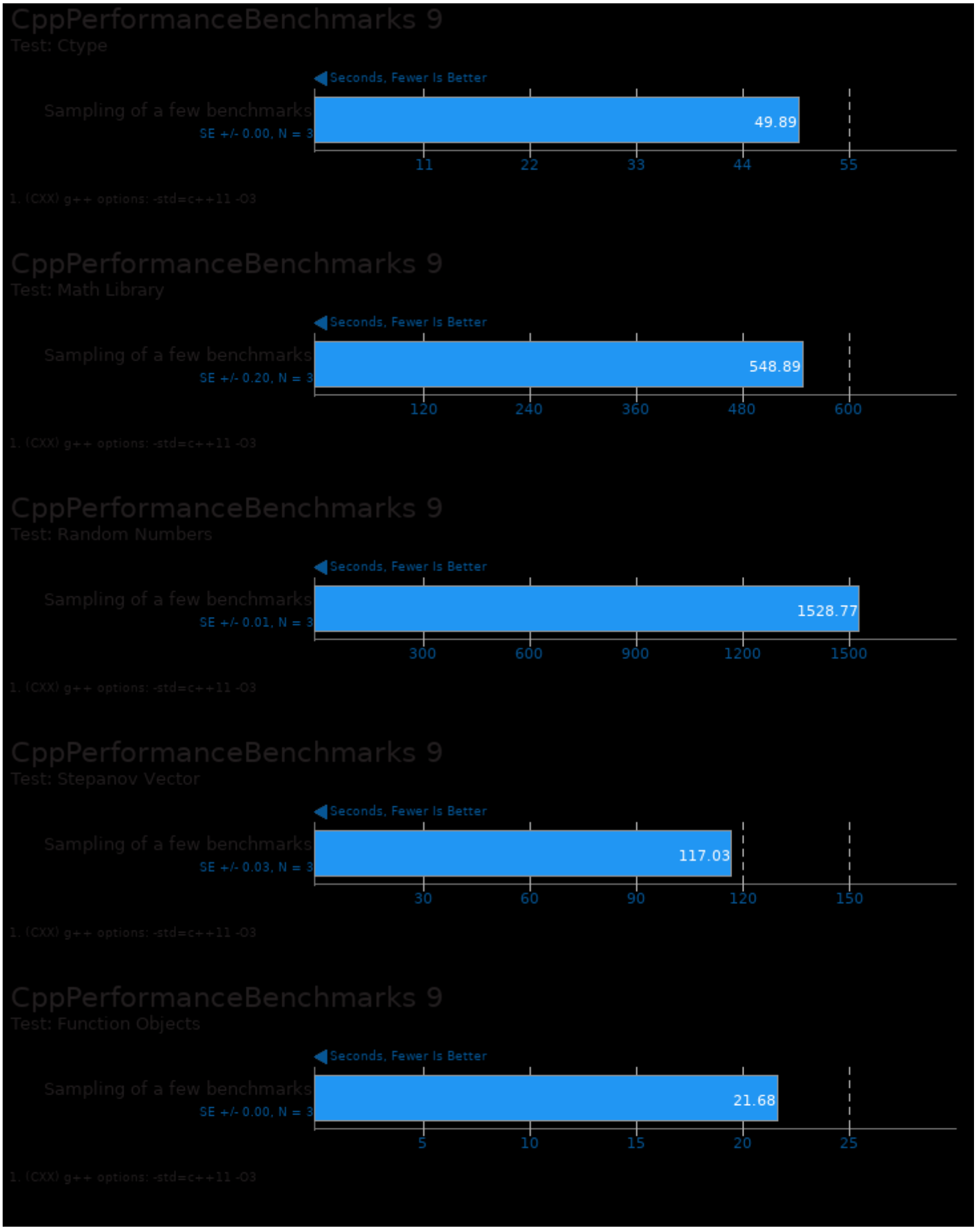
CppPerformanceBenchmarks 9

Test: Atol

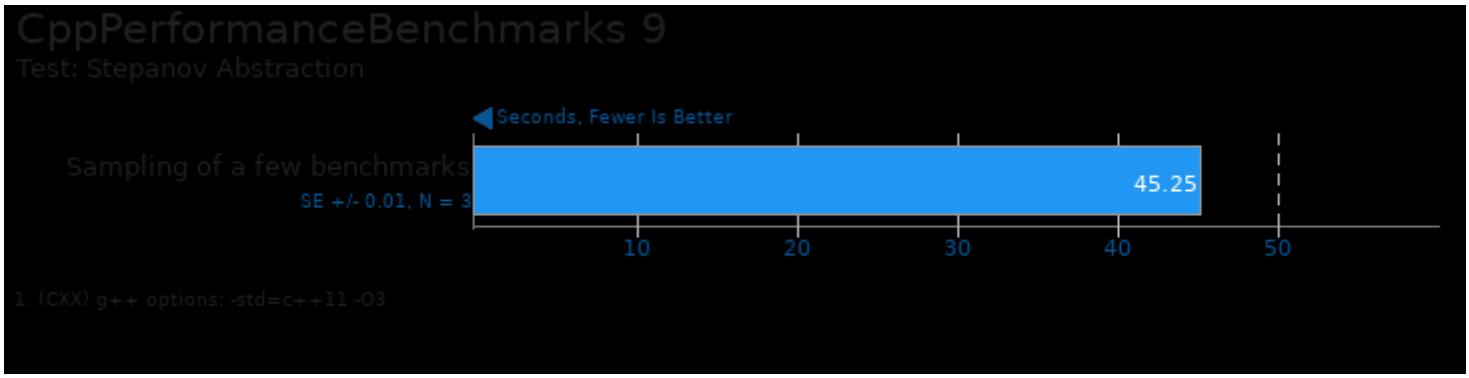


1. (CXX) g++ options: -std=c++11 -O3

gauss_full


CppPerformanceBenchmarks 9
Test: Ctype
Seconds, Fewer Is Better
Sampling of a few benchmarks
SE +/- 0.00, N = 3
49.89
11
22
33
44
55
1. (CXX) g++ options: -std=c++11 -O3
CppPerformanceBenchmarks 9
Test: Math Library
Seconds, Fewer Is Better
Sampling of a few benchmarks
SE +/- 0.20, N = 3
548.89
120
240
360
480
600
1. (CXX) g++ options: -std=c++11 -O3
CppPerformanceBenchmarks 9
Test: Random Numbers
Seconds, Fewer Is Better
Sampling of a few benchmarks
SE +/- 0.01, N = 3
1528.77
300
600
900
1200
1500
1. (CXX) g++ options: -std=c++11 -O3
CppPerformanceBenchmarks 9
Test: Stepanov Vector
Seconds, Fewer Is Better
Sampling of a few benchmarks
SE +/- 0.03, N = 3
117.03
30
60
90
120
150
1. (CXX) g++ options: -std=c++11 -O3
CppPerformanceBenchmarks 9
Test: Function Objects
Seconds, Fewer Is Better
Sampling of a few benchmarks
SE +/- 0.00, N = 3
21.68
5
10
15
20
25
1. (CXX) g++ options: -std=c++11 -O3

gauss_full



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