



dcg-server-ws-011

2 x Intel Xeon E5-2680 v2 testing with a Supermicro X9DR3-F v0123456789 (3.3 BIOS) and Matrox MGA G200eW WPCM450 on LinuxMint 18.3 via the Phoronix Test Suite.

Automated Executive Summary

cpu had the most wins, coming in first place for 60% of the tests.

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

John The Ripper (Test: Traditional DES) at 1.165x

John The Ripper (Test: MD5) at 1.154x

John The Ripper (Test: Blowfish) at 1.132x

7-Zip Compression (Compress Speed Test) at 1.023x

GraphicsMagick (Operation: Noise-Gaussian) at 1.019x

GraphicsMagick (Operation: Resizing) at 1.015x

GraphicsMagick (Operation: Sharpen) at 1.014x

Bullet Physics Engine (Test: 3000 Fall) at 1.013x

Bullet Physics Engine (Test: 1000 Stack) at 1.013x

Timed Apache Compilation (Time To Compile) at 1.009x.

Test Systems:

cpu

Processor: 2 x Intel Xeon E5-2680 v2 @ 3.60GHz (20 Cores / 40 Threads), Motherboard: Supermicro X9DR3-F v0123456789 (3.3 BIOS), Chipset: Intel Xeon E7 v2/Xeon, Memory: 6 x 8192 MB DDR3-1333MHz HMT31GR7BFR4A, Disk: 120GB KingDian S280 12, Graphics: llvmpipe 48384MB, Monitor: SE2717H/HX, Network: Intel I350 Gigabit Connection

OS: LinuxMint 18.3, Kernel: 4.10.0-38-generic (x86_64), Desktop: Cinnamon 3.6.7, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 3.3 Mesa 18.0.5 (LLVM 6.0 256 bits), Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1280x1024

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
 Processor Notes: Scaling Governor: intel_pstate powersave

multicore suite

mem-Hynix-1333

Processor: 2 x Intel Xeon E5-2680 v2 @ 3.60GHz (20 Cores / 40 Threads), Motherboard: Supermicro X9DR3-F v0123456789 (3.3 BIOS), Chipset: Intel Xeon E7 v2/Xeon, Memory: 6 x 8192 MB DDR3-1333MHz HMT31GR7BFR4A, Disk: 120GB KingDian S280 12, Graphics: Matrox MGA G200eW WPCM450, Monitor: SE2717H/HX, Network: Intel I350 Gigabit Connection

OS: LinuxMint 18.3, Kernel: 4.10.0-38-generic (x86_64), Desktop: Cinnamon 3.6.7, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1280x1024

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
 Processor Notes: Scaling Governor: intel_pstate performance

	cpu	multicore suite	mem-Hynix-1333
AOBench - 2048 x 2048 - Total Time (sec)	61.00		
Standard Deviation	2.2%		
asmFish - 1.H.M.2.D (Nodes/s)	48980122		
Standard Deviation	3.6%		
BLAKE2 (Cycles/Byte)	4.43		
Standard Deviation	0.1%		
Bork File Encrypter - F.E.T (sec)	10.87		
Standard Deviation	3.3%		
Botan - KASUMI - Encrypt (MiB/s)	72.50		
Standard Deviation	1.9%		

Botan - KASUMI - Decrypt (MiB/s)	70.00	
Standard Deviation	0.5%	
Botan - AES-256 - Encrypt (MiB/s)	2087	
Standard Deviation	2.1%	
Botan - AES-256 - Decrypt (MiB/s)	2084	
Standard Deviation	4.8%	
Botan - Twofish - Encrypt (MiB/s)	246.68	
Standard Deviation	6.1%	
Botan - Twofish - Decrypt (MiB/s)	242.21	
Standard Deviation	8.6%	
Botan - Blowfish - Encrypt (MiB/s)	202.98	
Standard Deviation	1.4%	
Botan - Blowfish - Decrypt (MiB/s)	205.46	
Standard Deviation	1.6%	
Botan - CAST-256 - Encrypt (MiB/s)	99.66	
Standard Deviation	2.4%	
Botan - CAST-256 - Decrypt (MiB/s)	102.58	
Standard Deviation	0.4%	
Timed Apache Compilation - Time To Compile (sec)	23.62	23.41
Normalized	99.11%	100%
Standard Deviation	0.3%	0.4%
Timed GCC Compilation - Time To Compile (sec)	724	
Standard Deviation	0.4%	
Timed ImageMagick Compilation - Time To Compile (sec)	22.64	
Standard Deviation	1.2%	
Timed Linux Kernel Compilation - Time To Compile (sec)	48.97	
Standard Deviation	4.3%	
Timed LLVM Compilation - Time To Compile (sec)	292	
Standard Deviation		
Timed MPlayer Compilation - Time To Compile (sec)	17.29	
Standard Deviation	1.3%	
Timed PHP Compilation - Time To Compile (sec)	56.00	56.28
Normalized	100%	99.5%
Standard Deviation	0.7%	1.2%
Bullet Physics Engine - Raytests (sec)	3.54	3.57
Normalized	100%	99.16%
Standard Deviation	0.1%	1.6%
Bullet Physics Engine - 3000 Fall (sec)	5.19	5.26
Normalized	100%	98.67%
Standard Deviation	0.3%	2.1%
Bullet Physics Engine - 1000 Stack (sec)	6.35	6.43
Normalized	100%	98.76%
Standard Deviation	0.4%	0.4%
Bullet Physics Engine - 1000 Convex (sec)	6.34	6.34
Standard Deviation	0.2%	0%
Bullet Physics Engine - 136 Ragdolls (sec)	3.95	3.96
Normalized	100%	99.75%

	Standard Deviation	0.2%	0.5%	
Bullet Physics Engine - Prim Trimesh (sec)		1.21	1.21	
	Standard Deviation	0.2%	0.7%	
Bullet Physics Engine - Convex Trimesh		1.52	1.53	
	Normalized	100%	99.35%	
	Standard Deviation	0.1%	1.3%	
BYTE Unix Benchmark - Dhrystone 2 (LPS)		27253028		
	Standard Deviation	3.4%		
BYTE Unix Benchmark - Integer Arithmetic		1		
	(LPS)			
BYTE Unix Benchmark - R.A (LPS)		1		
BYTE Unix Benchmark - F.P.A (LPS)		1		
C-Ray - Total Time - 4.1.R.P.P (sec)		60.73	61.01	
	Normalized	100%	99.54%	
	Standard Deviation	0.4%	0.2%	
CacheBench - Read (MB/s)		3052		3037
	Normalized	100%		99.51%
	Standard Deviation	0%		0.4%
CacheBench - Write (MB/s)		22918		22960
	Normalized	99.82%		100%
	Standard Deviation	0.3%		0%
CacheBench - R.M.W (MB/s)		26816		26704
	Normalized	100%		99.58%
	Standard Deviation	0.1%		0.5%
CLOMP - Static OMP Speedup (Speedup)		0.98		
	Standard Deviation	19.5%		
7-Zip Compression - C.S.T (MIPS)		76687	78437	
	Normalized	97.77%	100%	
	Standard Deviation	0.7%	0.3%	
Gzip Compression - L.S.T.A.T.t.g (sec)		42.18		
	Standard Deviation	1.1%		
LZMA Compression - 2.F.C (sec)		292		
	Standard Deviation	0.4%		
Parallel BZIP2 Compression - 2.F.C (sec)		2.94	3.00	
	Normalized	100%	98%	
	Standard Deviation	2.8%	15.9%	
Zstd Compression - C.u.1.0.3.s.i.i.C.L.1 (sec)		118		
	Standard Deviation	3.1%		
Crafty - Elapsed Time (Nodes/s)		6488158	6437951	
	Normalized	100%	99.23%	
	Standard Deviation	0.9%	1.6%	
DaCapo Benchmark - H2 (msec)		5066		
	Standard Deviation	1.6%		
DaCapo Benchmark - Jython (msec)		6027		
	Standard Deviation	1.3%		
DaCapo Benchmark - Eclipse (msec)		23983		
	Standard Deviation	1.3%		
DaCapo Benchmark - Tradesoap (msec)		5492		
	Standard Deviation	1.1%		
DaCapo Benchmark - Tradebeans (msec)		7221		
	Standard Deviation	1.6%		
dcraw - R.T.P.I.C (sec)		56.61		
	Standard Deviation	0.1%		

Dolfyn - C.F.D (sec)	24.09
Standard Deviation	0.4%
ebizzy (Records/s)	502427
Standard Deviation	1.3%
LAME MP3 Encoding - WAV To MP3 (sec)	36.79
Standard Deviation	0.4%
eSpeak Speech Engine - T.T.S.S (sec)	40.78
Standard Deviation	2.7%
FFmpeg - H.2.H.T.N.D (sec)	8.13
Standard Deviation	3%
FFTE - N.2.1.C.F.R (MFLOPS)	5383
Standard Deviation	1%
FFTW - Stock - 1D FFT Size 32 (Mflops)	7023
Standard Deviation	0.6%
FFTW - Stock - 1D FFT Size 64 (Mflops)	7116
Standard Deviation	0.2%
FFTW - Stock - 2D FFT Size 32 (Mflops)	7308
Standard Deviation	0.1%
FFTW - Stock - 2D FFT Size 64 (Mflops)	6136
Standard Deviation	0.6%
FFTW - Stock - 1D FFT Size 128 (Mflops)	6413
Standard Deviation	0.1%
FFTW - Stock - 1D FFT Size 256 (Mflops)	6102
Standard Deviation	0.2%
FFTW - Stock - 1D FFT Size 512 (Mflops)	5985
Standard Deviation	0.1%
FFTW - Stock - 2D FFT Size 128 (Mflops)	5527
Standard Deviation	1.2%
FFTW - Stock - 2D FFT Size 256 (Mflops)	5139
Standard Deviation	0.1%
FFTW - Stock - 2D FFT Size 512 (Mflops)	5334
Standard Deviation	0.1%
FFTW - Stock - 1D FFT Size 1024 (Mflops)	6131
Standard Deviation	0.3%
FFTW - Stock - 1D FFT Size 2048 (Mflops)	5764
Standard Deviation	0%
FFTW - Stock - 1D FFT Size 4096 (Mflops)	5579
Standard Deviation	0.1%
FFTW - Stock - 2D FFT Size 1024 (Mflops)	5422
Standard Deviation	0.2%
FFTW - Stock - 2D FFT Size 2048 (Mflops)	4030
Standard Deviation	1.8%
FFTW - Stock - 2D FFT Size 4096 (Mflops)	3733
Standard Deviation	1.6%
FFTW - Float + SSE - 1D FFT Size 32 (Mflops)	9839
Standard Deviation	0.5%
FFTW - Float + SSE - 1D FFT Size 64 (Mflops)	11767
Standard Deviation	7.2%
FFTW - Float + SSE - 2D FFT Size 32 (Mflops)	21579
Standard Deviation	0.3%
FFTW - Float + SSE - 2D FFT Size 64 (Mflops)	20440
Standard Deviation	0.3%
FFTW - Float + SSE - 1D FFT Size 128 (Mflops)	14169

	Standard Deviation	1.6%
FFTW - Float + SSE - 1D FFT Size 256		17209
	Standard Deviation	0.2%
FFTW - Float + SSE - 1D FFT Size 512		19945
	Standard Deviation	1.3%
FFTW - Float + SSE - 2D FFT Size 128		16644
	Standard Deviation	0.9%
FFTW - Float + SSE - 2D FFT Size 256		15192
	Standard Deviation	0.5%
FFTW - Float + SSE - 2D FFT Size 512		15630
	Standard Deviation	0.5%
FFTW - Float + SSE - 1D FFT Size 1024		20653
	(Mflops)	
	Standard Deviation	1.3%
FFTW - Float + SSE - 1D FFT Size 2048		20305
	(Mflops)	
	Standard Deviation	1.1%
FFTW - Float + SSE - 1D FFT Size 4096		19022
	(Mflops)	
	Standard Deviation	1.7%
FFTW - Float + SSE - 2D FFT Size 1024		15685
	(Mflops)	
	Standard Deviation	2.2%
FFTW - Float + SSE - 2D FFT Size 2048		11439
	(Mflops)	
	Standard Deviation	2.6%
FFTW - Float + SSE - 2D FFT Size 4096		9469
	(Mflops)	
	Standard Deviation	0.1%
Fhourstones - C.C.4.S (Kpos / sec)		12341
	Standard Deviation	0.3%
glibc bench - cos (nanoseconds)		135486
	Standard Deviation	1.1%
glibc bench - ffs (nanoseconds)		6.26
	Standard Deviation	0.1%
glibc bench - sin (nanoseconds)		134894
	Standard Deviation	0.6%
glibc bench - sqrt (nanoseconds)		13.45
	Standard Deviation	0.7%
glibc bench - tanh (nanoseconds)		58.14
	Standard Deviation	1.8%
glibc bench - ffsll (nanoseconds)		7.04
	Standard Deviation	0.6%
glibc bench - pthread_once (nanoseconds)		7.22
	Standard Deviation	1%
GNU GMP GMPbench - Total Time		3492
	(GMPbench Score)	
GnuPG - 2.F.E (sec)		16.23
	Standard Deviation	0.2%
Go Benchmarks - http (ns/op)		6592
	Standard Deviation	0.5%
Go Benchmarks - json (ns/op)		10561562

	Standard Deviation	0.5%	
Go Benchmarks - build (ns/op)		18845931417	
	Standard Deviation	0.2%	
Go Benchmarks - garbage (ns/op)		1222499	
	Standard Deviation	1.7%	
GraphicsMagick - Swirl (Iterations/min)		185	186
	Normalized	99.46%	100%
	Standard Deviation		0.3%
GraphicsMagick - Rotate (Iterations/min)		200	200
	Standard Deviation		0.5%
GraphicsMagick - Sharpen (Iterations/min)		147	145
	Normalized	100%	98.64%
	Standard Deviation	0.7%	
GraphicsMagick - Enhanced (Iterations/min)		152	151
	Normalized	100%	99.34%
	Standard Deviation		0.4%
GraphicsMagick - Resizing (Iterations/min)		200	203
	Normalized	98.52%	100%
	Standard Deviation		0.3%
GraphicsMagick - Noise-Gaussian (Iterations/min)		104	106
	Normalized	98.11%	100%
	Standard Deviation	1.5%	
GraphicsMagick - HWB Color Space (Iterations/min)		213	214
	Normalized	99.53%	100%
Hackbench - 1 - Thread (sec)		3.17	
	Standard Deviation	3.3%	
Hackbench - 2 - Thread (sec)		4.47	
	Standard Deviation	2.4%	
Hackbench - 4 - Thread (sec)		6.50	
	Standard Deviation	3.3%	
Hackbench - 8 - Thread (sec)		10.91	
	Standard Deviation	1.1%	
Hackbench - 1 - Process (sec)		2.97	
	Standard Deviation	5.7%	
Hackbench - 16 - Thread (sec)		18.96	
	Standard Deviation	0.7%	
Hackbench - 2 - Process (sec)		3.70	
	Standard Deviation	3.6%	
Hackbench - 4 - Process (sec)		5.94	
	Standard Deviation	1.2%	
Hackbench - 8 - Process (sec)		10.01	
	Standard Deviation	2.6%	
Hackbench - 16 - Process (sec)		17.76	
	Standard Deviation	1%	
Hackbench - 32 - Process (sec)		32.96	
	Standard Deviation	0.6%	
Himeno Benchmark - P.P.S (MFLOPS)		1605	1600
	Normalized	100%	99.69%
	Standard Deviation	0.1%	0.4%
Timed HMMer Search - P.D.S (sec)		12.25	12.22
	Normalized	99.76%	100%
	Standard Deviation	0.4%	1.4%

High Performance Conjugate Gradient (GFLOP/s)	0.88	
Standard Deviation	7.7%	
Java Gradle Build - Reactor (sec)	25.75	
Standard Deviation	1.3%	
Java SciMark - Composite (Mflops)	1822	
Standard Deviation	0.2%	
Java SciMark - Monte Carlo (Mflops)	850	
Standard Deviation	0%	
Java SciMark - F.F.T (Mflops)	1094	
Standard Deviation	0.6%	
Java SciMark - S.M.M (Mflops)	1717	
Standard Deviation	0%	
Java SciMark - D.L.M.F (Mflops)	4077	
Standard Deviation	0.1%	
Java SciMark - J.S.O.R (Mflops)	1375	
Standard Deviation	0.5%	
John The Ripper - Blowfish (Real C/S)	21347	24174
Normalized	88.31%	100%
Standard Deviation	2.5%	0.3%
John The Ripper - Traditional DES (Real C/S)	82343000	95957667
Normalized	85.81%	100%
Standard Deviation	1.3%	1.3%
John The Ripper - MD5 (Real C/S)	735642	848944
Normalized	86.65%	100%
Standard Deviation	4.3%	1.4%
LuaJIT - Composite (Mflops)	1123	
Standard Deviation	0.6%	
LuaJIT - Monte Carlo (Mflops)	419.06	
Standard Deviation	1.6%	
LuaJIT - F.F.T (Mflops)	407.31	
Standard Deviation	3.7%	
LuaJIT - S.M.M (Mflops)	1093	
Standard Deviation	1.3%	
LuaJIT - D.L.M.F (Mflops)	2161	
Standard Deviation	0.3%	
LuaJIT - J.S.O.R (Mflops)	1536	
Standard Deviation	0.8%	
Izbench - XZ 0 - Compression (MB/s)	29	
Izbench - XZ 0 - Decompression (MB/s)	81	
Izbench - Zstd 1 - Compression (MB/s)	291	
Izbench - Zstd 1 - Decompression (MB/s)	821	
Izbench - Brotli 0 - Compression (MB/s)	341	
Standard Deviation	0.3%	
Izbench - Brotli 0 - Decompression (MB/s)	402	
Standard Deviation	0.6%	
Izbench - Libdeflate 1 - Compression (MB/s)	167	
Standard Deviation	0.3%	
Izbench - Libdeflate 1 - Decompression	813	
Standard Deviation	0.2%	
SciMark - Composite (Mflops)	572	
Standard Deviation	0.1%	
SciMark - Monte Carlo (Mflops)	120	

Standard Deviation	0.4%	
SciMark - F.F.T (Mflops)	287.02	
Standard Deviation	0.8%	
SciMark - S.M.M (Mflops)	584	
Standard Deviation	0%	
SciMark - D.L.M.F (Mflops)	790	
Standard Deviation	0%	
SciMark - J.S.O.R (Mflops)	1079	
Standard Deviation	0%	
Timed MAFFT Alignment - M.S.A (sec)	2.94	
Standard Deviation	7.3%	
x264 - H.2.V.E (FPS)	97.15	
Standard Deviation	0.8%	
POV-Ray - Trace Time (sec)	38.25	
Standard Deviation	0.3%	
Smallpt - G.I.R.1.S (sec)	27.33	
Standard Deviation	0.2%	
Minion - Graceful (sec)	68.35	
Standard Deviation	0.6%	
Minion - Solitaire (sec)	95.19	
Standard Deviation	0.3%	
Minion - Quasigroup (sec)	151	
Standard Deviation	0.5%	
OpenSSL - R.4.b.P (Signs/sec)	2632	
Standard Deviation	0.1%	
Stream - Copy (MB/s)		29370
Standard Deviation		8.1%
Stream - Scale (MB/s)		28569
Standard Deviation		10.9%
Stream - Triad (MB/s)		32621
Standard Deviation		8.2%
Stream - Add (MB/s)		32953
Standard Deviation		9.1%

AOBench

Size: 2048 x 2048 - Total Time



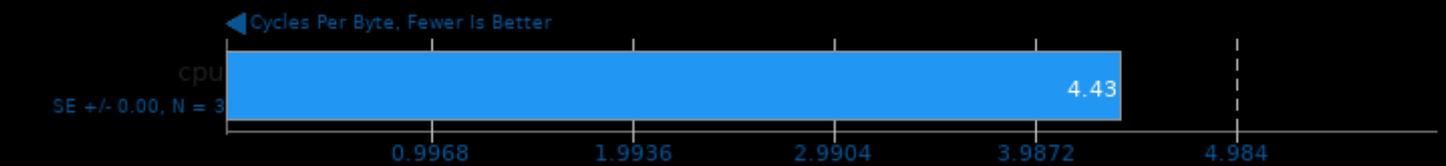
1, (CC) gcc options: -lm -O3

asmFish 2017-09-19

1024 Hash Memory, 26 Depth



BLAKE2 20170307



Bork File Encrypter 1.4

File Encryption Time



Botan 2.6.0

Test: KASUMI - Encrypt



Botan 2.6.0

Test: KASUMI - Decrypt



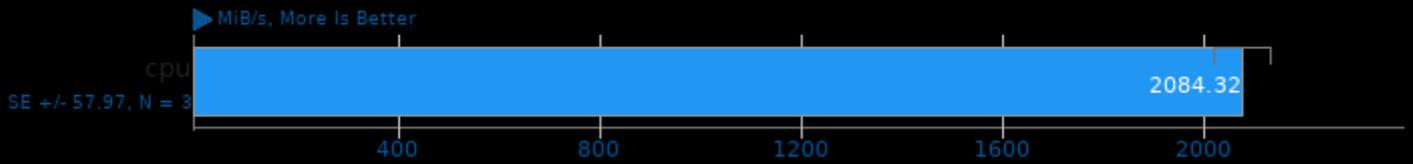
Botan 2.6.0

Test: AES-256 - Encrypt



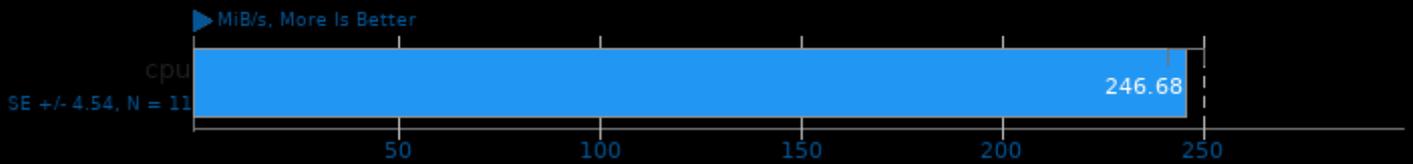
Botan 2.6.0

Test: AES-256 - Decrypt



Botan 2.6.0

Test: Twofish - Encrypt



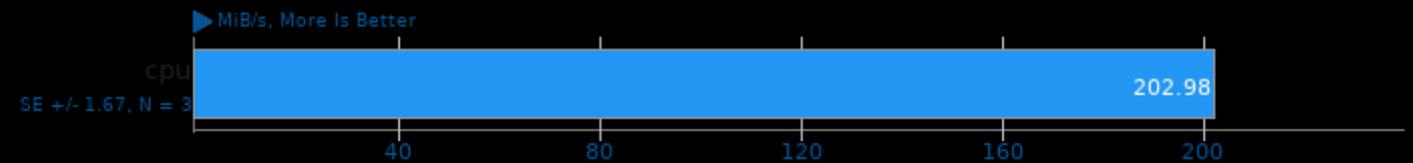
Botan 2.6.0

Test: Twofish - Decrypt



Botan 2.6.0

Test: Blowfish - Encrypt



Botan 2.6.0

Test: Blowfish - Decrypt



Botan 2.6.0

Test: CAST-256 - Encrypt



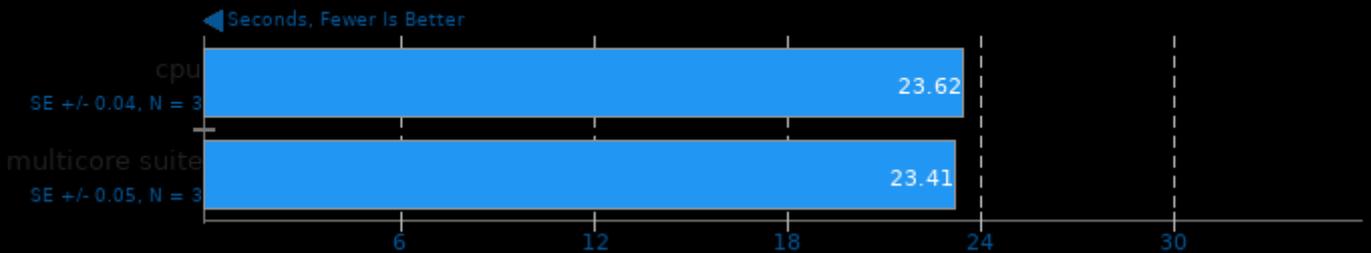
Botan 2.6.0

Test: CAST-256 - Decrypt



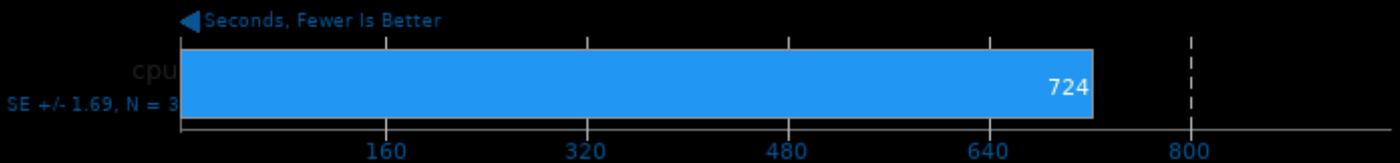
Timed Apache Compilation 2.4.7

Time To Compile



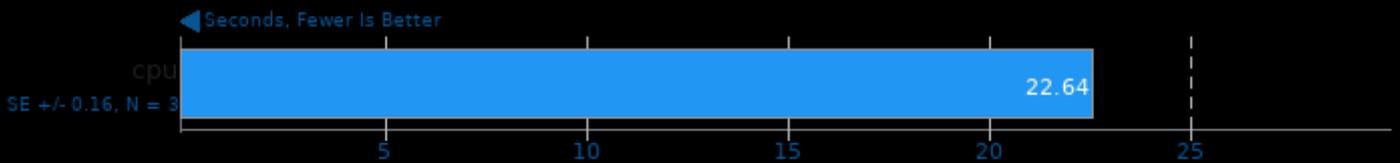
Timed GCC Compilation 7.2

Time To Compile



Timed ImageMagick Compilation 6.9.0

Time To Compile



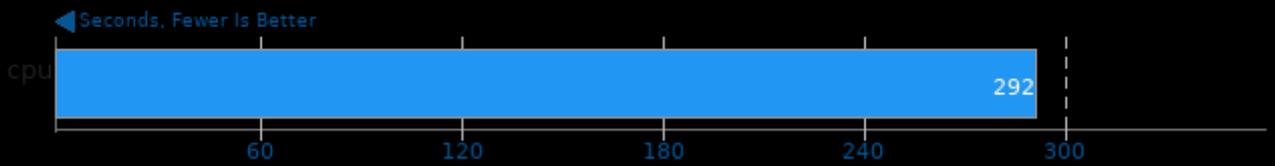
Timed Linux Kernel Compilation 4.18

Time To Compile



Timed LLVM Compilation 6.0.1

Time To Compile



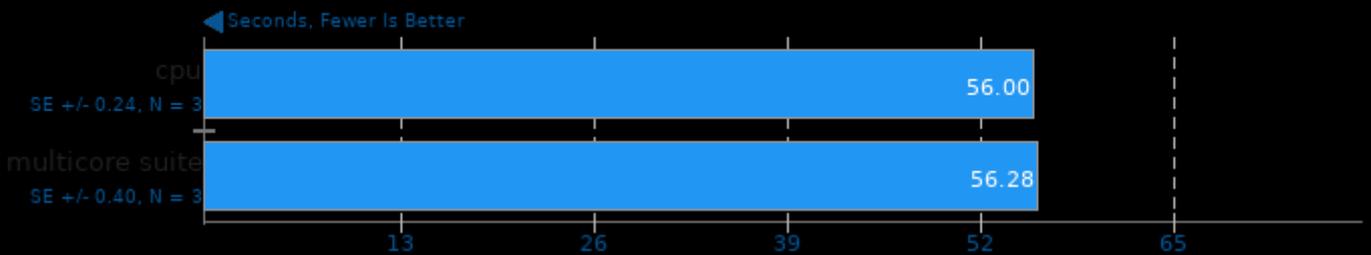
Timed MPlayer Compilation 1.0-rc3

Time To Compile



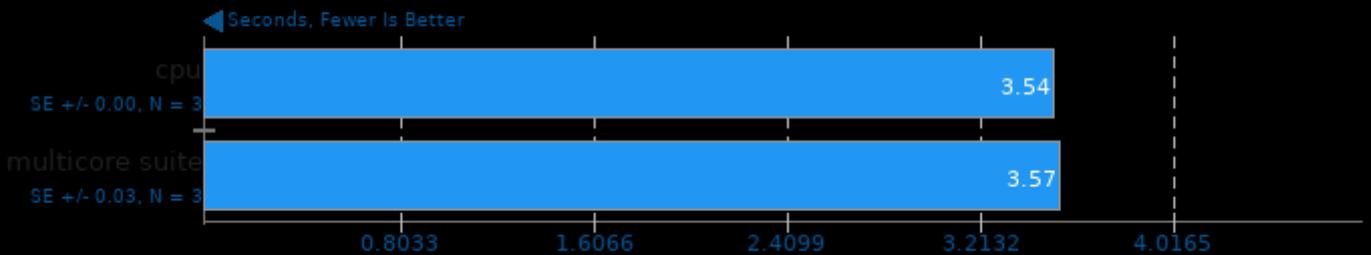
Timed PHP Compilation 7.1.9

Time To Compile



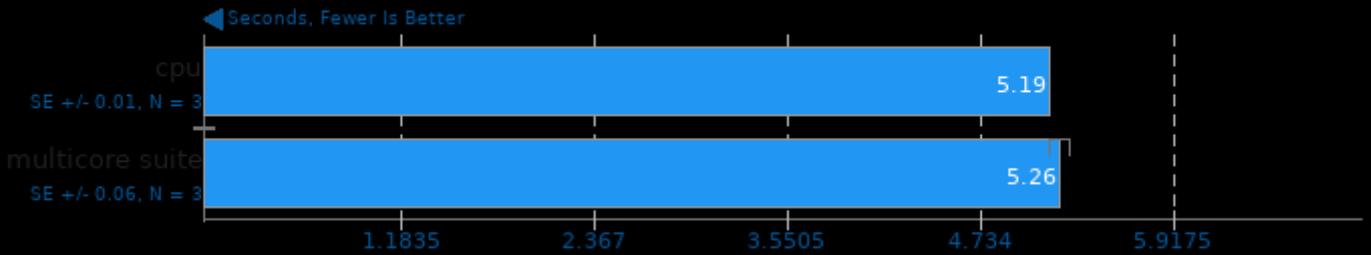
Bullet Physics Engine 2.81

Test: Raytests



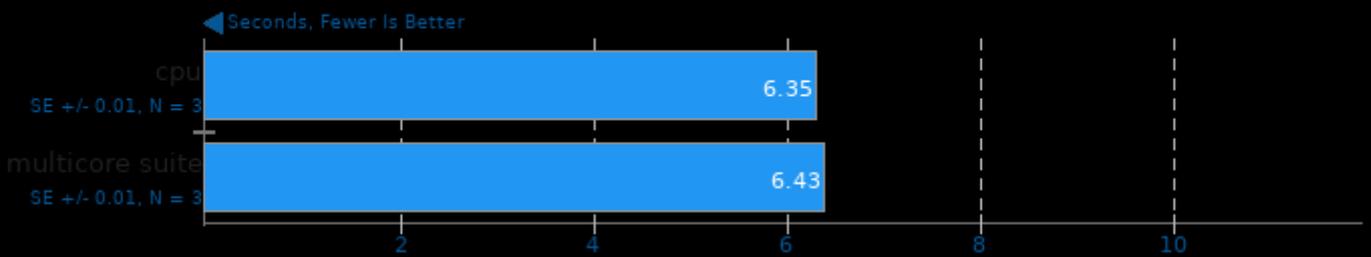
Bullet Physics Engine 2.81

Test: 3000 Fall



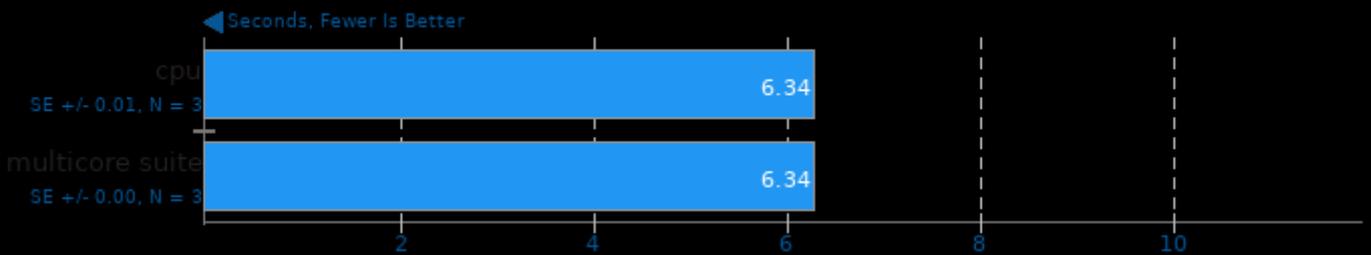
Bullet Physics Engine 2.81

Test: 1000 Stack



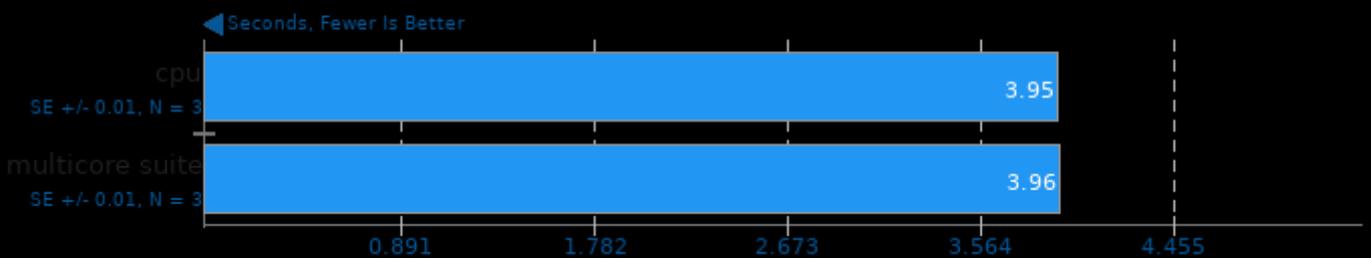
Bullet Physics Engine 2.81

Test: 1000 Convex



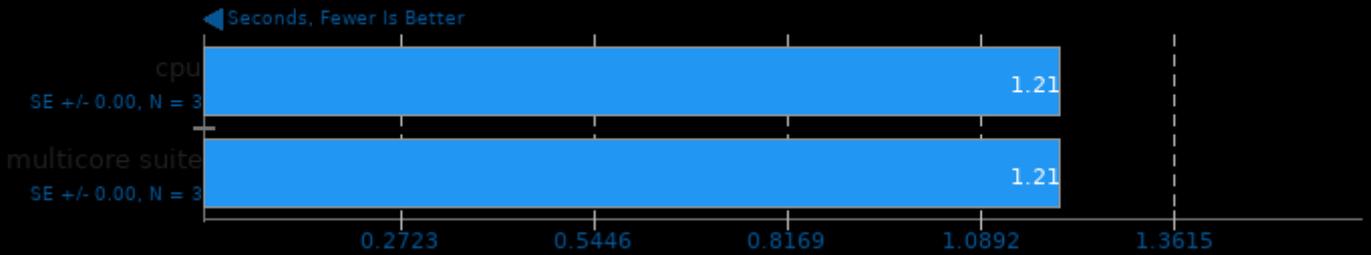
Bullet Physics Engine 2.81

Test: 136 Ragdolls



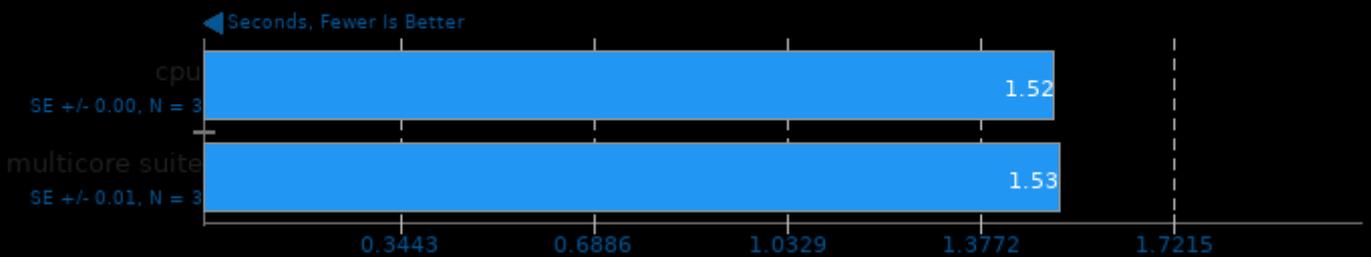
Bullet Physics Engine 2.81

Test: Prim Trimesh



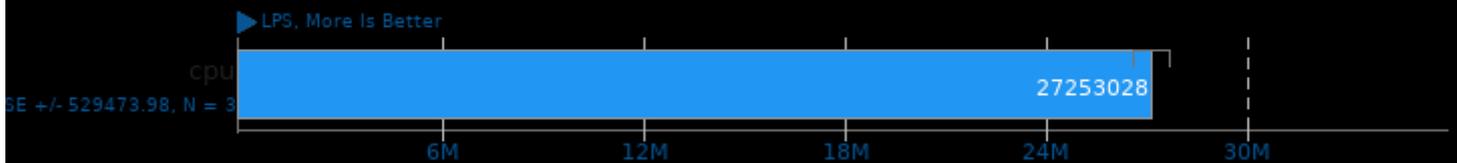
Bullet Physics Engine 2.81

Test: Convex Trimesh



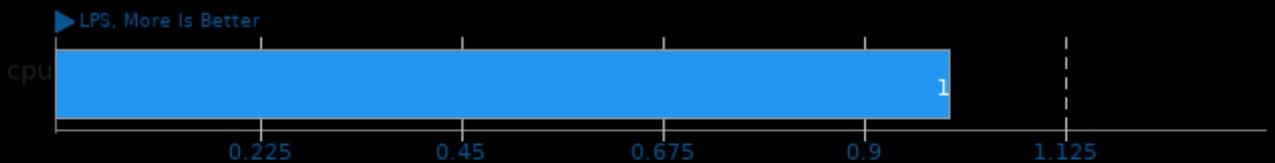
BYTE Unix Benchmark 3.6

Computational Test: Dhrystone 2



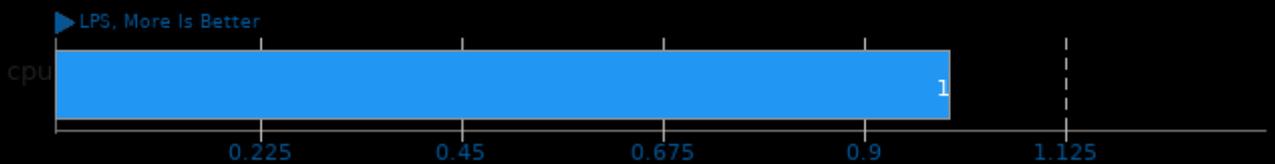
BYTE Unix Benchmark 3.6

Computational Test: Integer Arithmetic



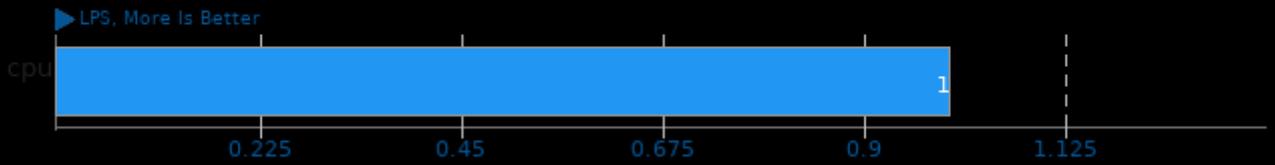
BYTE Unix Benchmark 3.6

Computational Test: Register Arithmetic



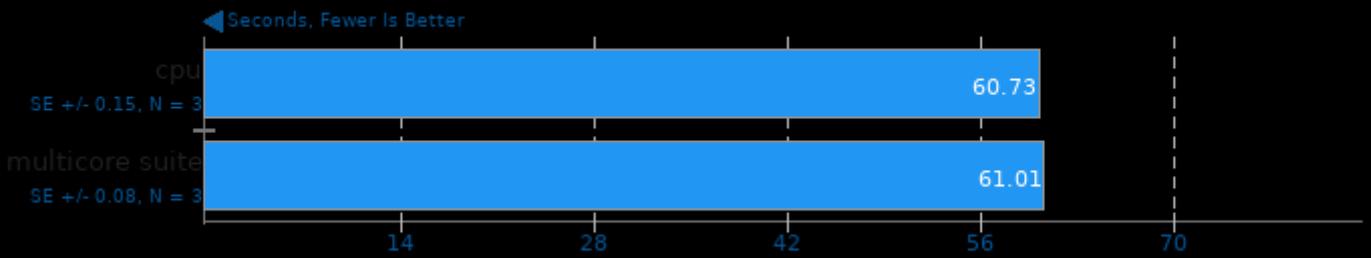
BYTE Unix Benchmark 3.6

Computational Test: Floating-Point Arithmetic



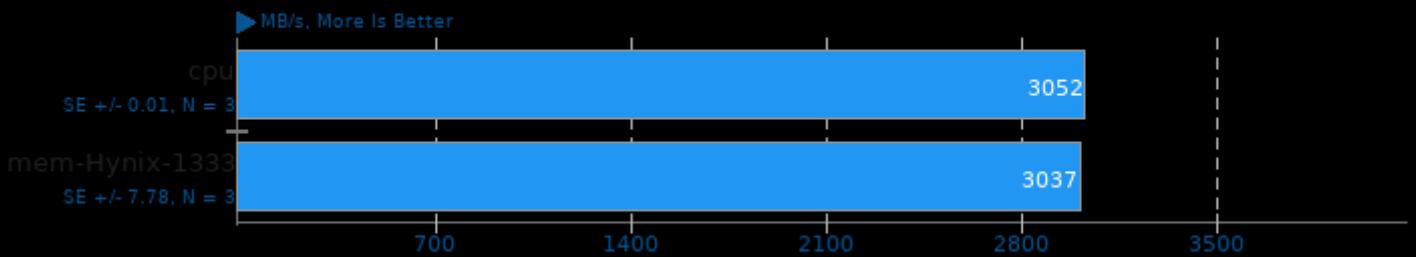
C-Ray 1.1

Total Time - 4K, 16 Rays Per Pixel



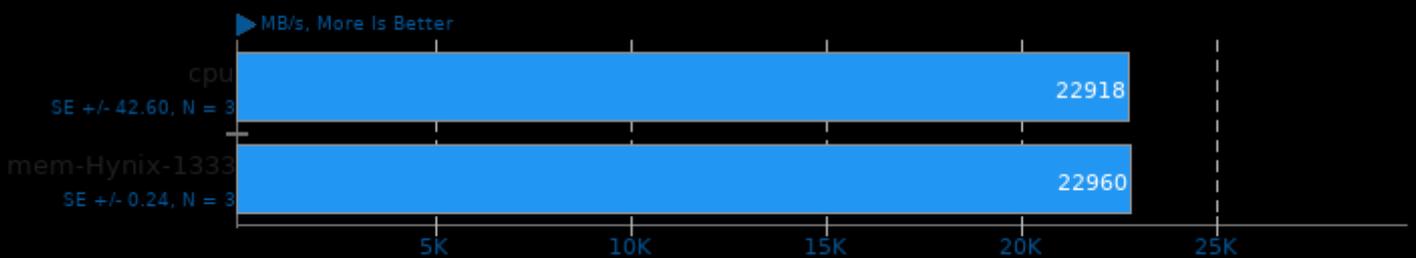
CacheBench

Test: Read



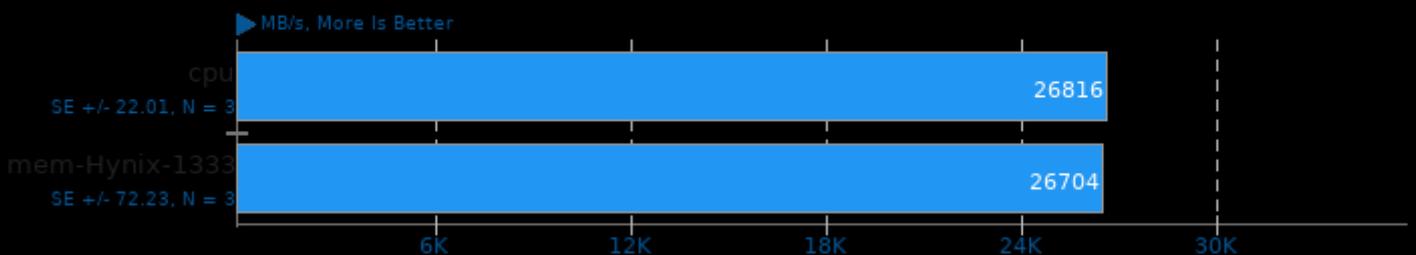
CacheBench

Test: Write



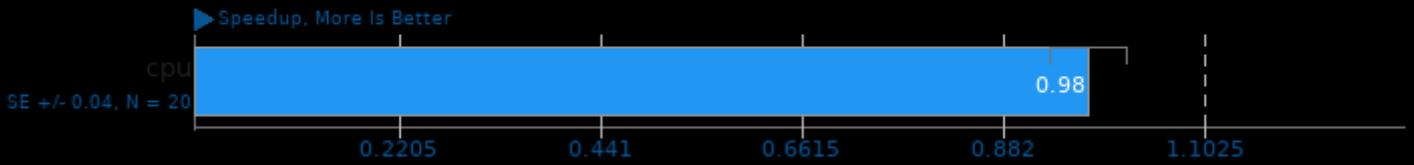
CacheBench

Test: Read / Modify / Write



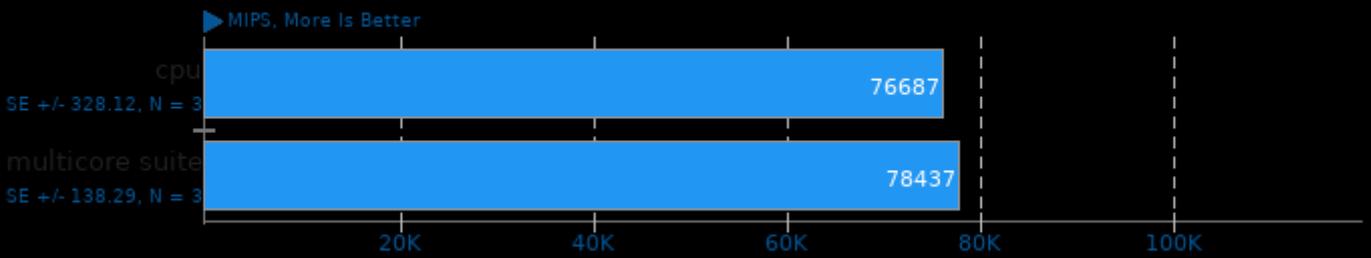
CLOMP 3.3

Static OMP Speedup



7-Zip Compression 16.02

Compress Speed Test



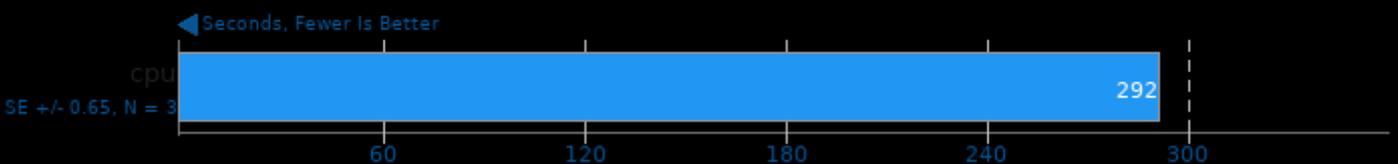
Gzip Compression

Linux Source Tree Archiving To .tar.gz



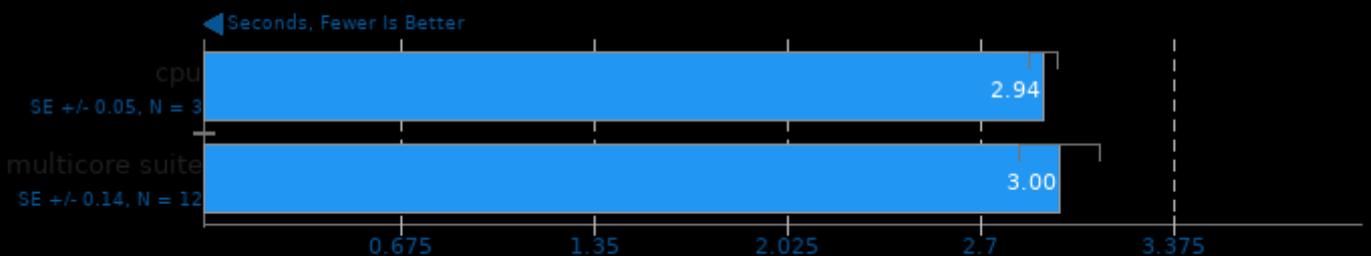
LZMA Compression

256MB File Compression



Parallel BZIP2 Compression 1.1.12

256MB File Compression



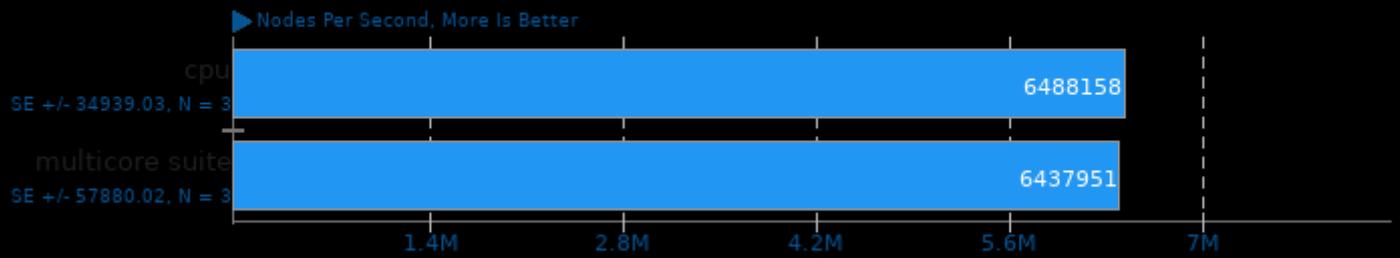
Zstd Compression 1.3.4

Compressing ubuntu-16.04.3-server-i386.img, Compression Level 19



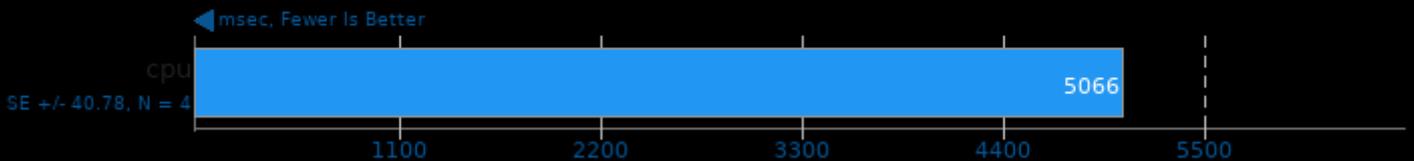
Crafty 25.2

Elapsed Time



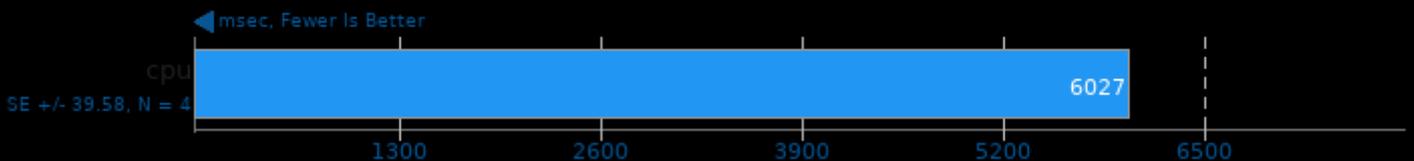
DaCapo Benchmark 9.12-MR1

Java Test: H2



DaCapo Benchmark 9.12-MR1

Java Test: Jython



DaCapo Benchmark 9.12-MR1

Java Test: Eclipse



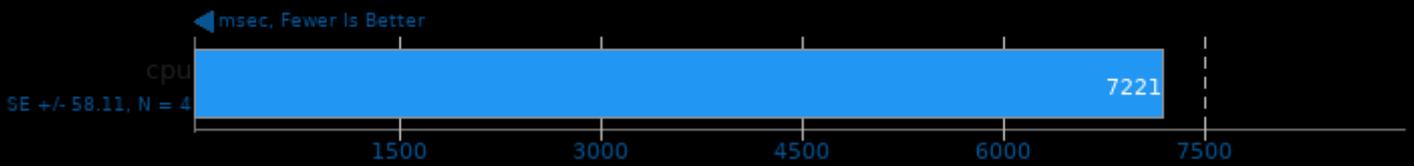
DaCapo Benchmark 9.12-MR1

Java Test: Tradesoap



DaCapo Benchmark 9.12-MR1

Java Test: Tradebeans



dcraw

RAW To PPM Image Conversion



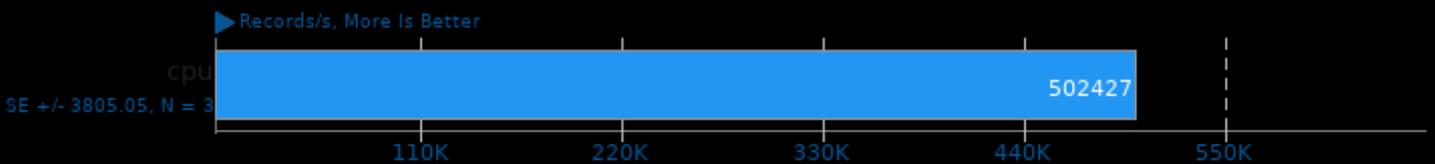
Dolfyn 0.527

Computational Fluid Dynamics



ebizzy 0.3

Records/s, More Is Better



LAME MP3 Encoding 3.100

WAV To MP3



eSpeak Speech Engine 1.48.04

Text-To-Speech Synthesis



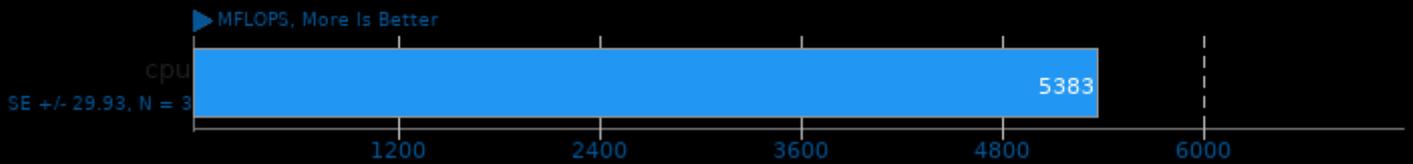
FFmpeg 4.0.2

H.264 HD To NTSC DV



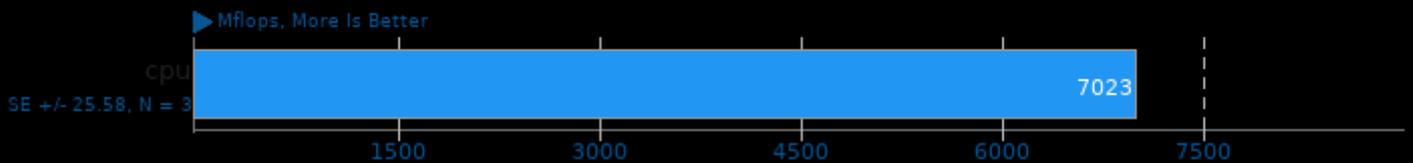
FFTE 6.0

Test: N=256, 1D Complex FFT Routine



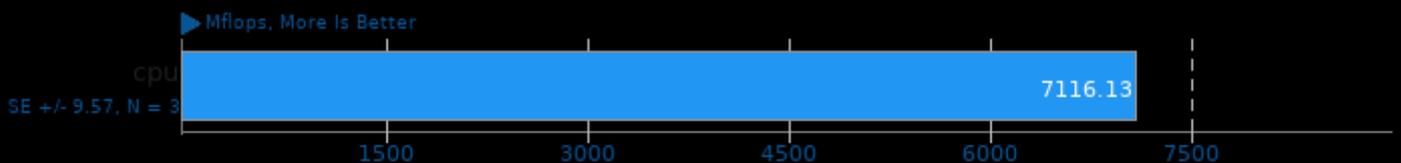
FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 32



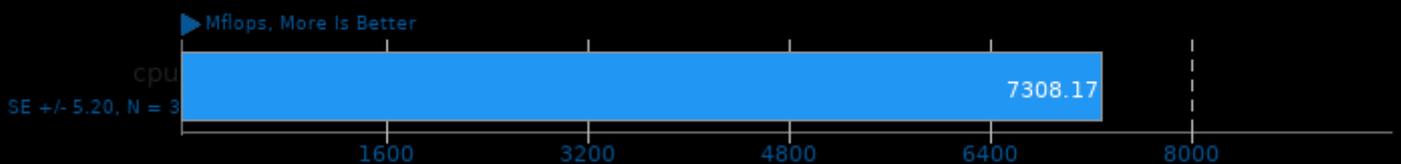
FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 64



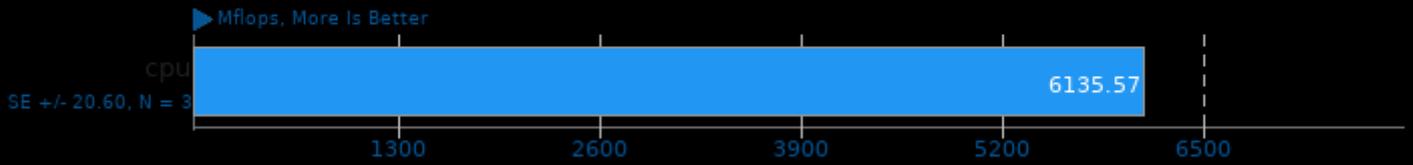
FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 32



FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 64



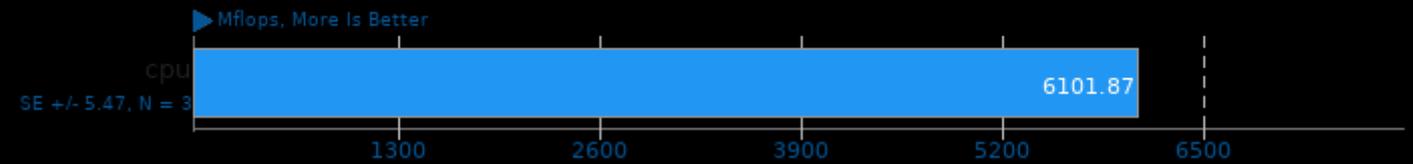
FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 128



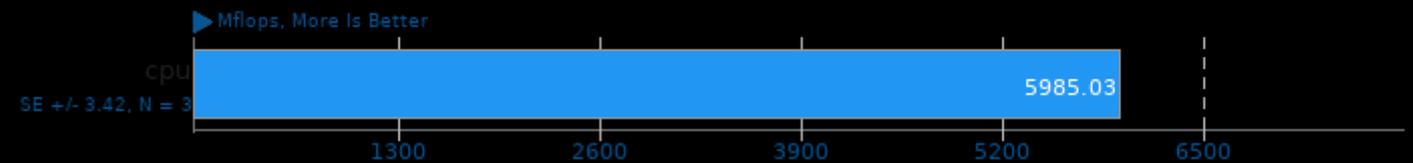
FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 256



FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 512



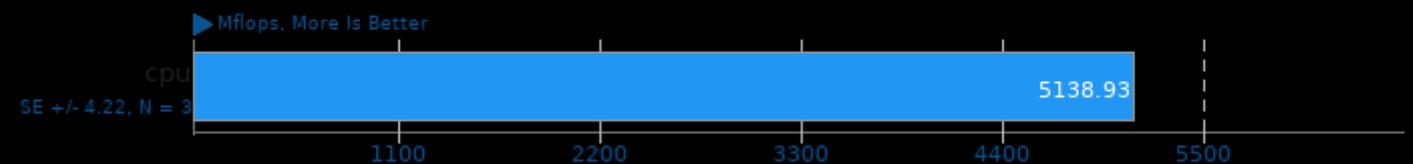
FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 128



FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 256



FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 512



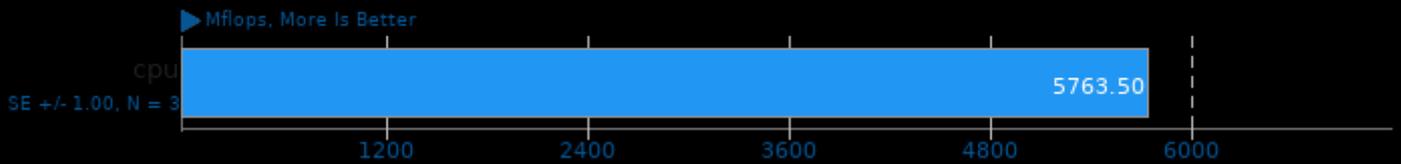
FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 1024



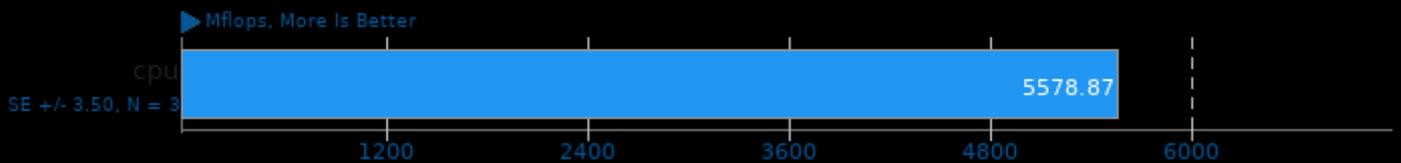
FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 2048



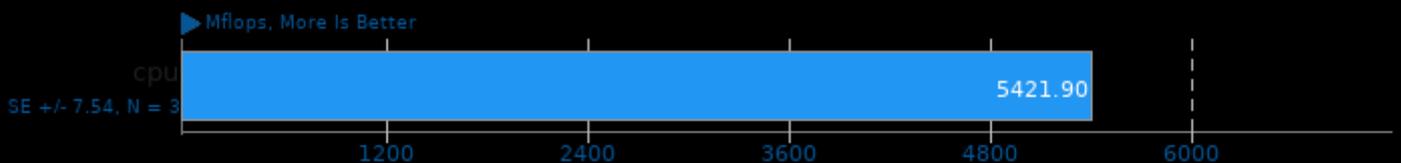
FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 4096



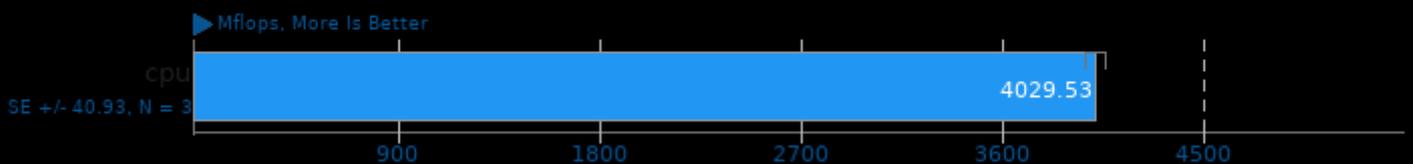
FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 1024



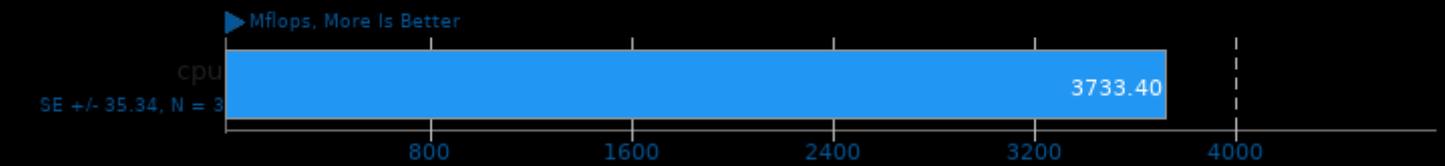
FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 2048



FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 4096



FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 32



FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 64



FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 32



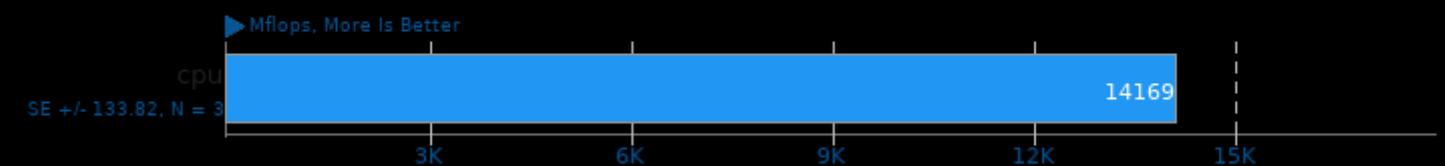
FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 64



FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 128



FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 256



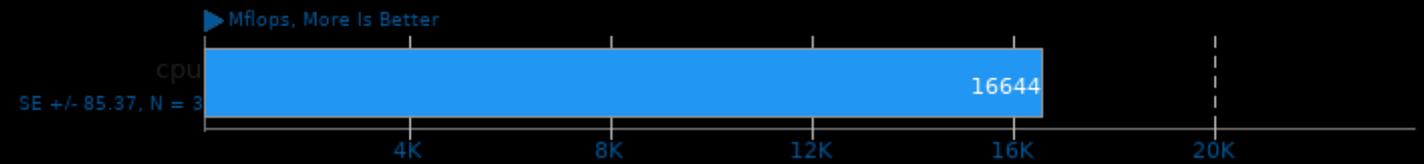
FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 512



FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 128



FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 256



FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 512



FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 1024



FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 2048



FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 4096



FFTW 3.3.6

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



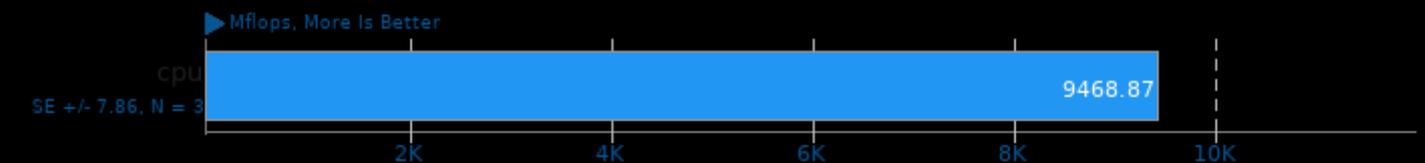
FFTW 3.3.6

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



FFTW 3.3.6

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



Fhourstones 3.1

Complex Connect-4 Solving



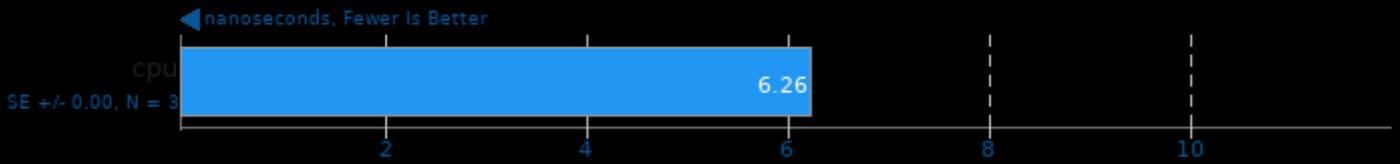
glibc bench 1.0

Benchmark: cos



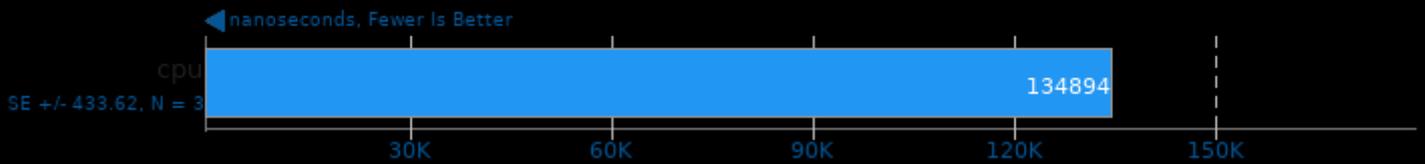
glibc bench 1.0

Benchmark: ffs



glibc bench 1.0

Benchmark: sin



glibc bench 1.0

Benchmark: sqrt



glibc bench 1.0

Benchmark: tanh



glibc bench 1.0

Benchmark: ffsll



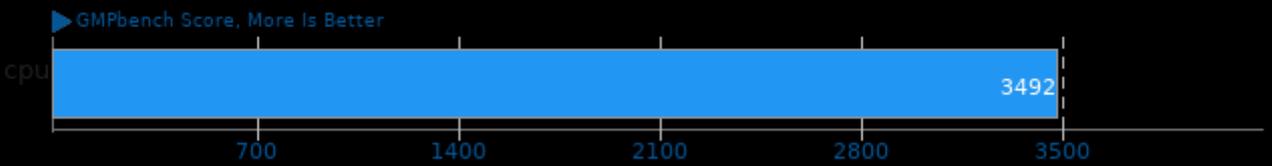
glibc bench 1.0

Benchmark: pthread_once



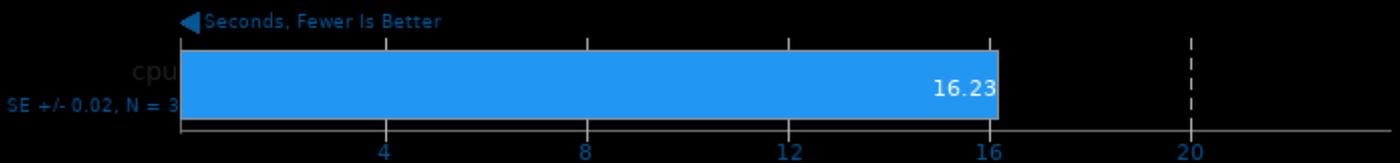
GNU GMP GMPbench 6.1.2

Total Time



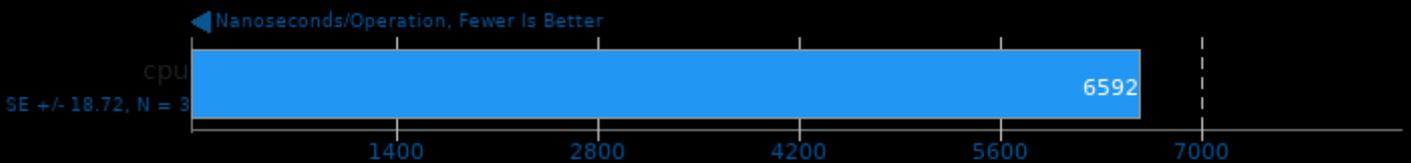
GnuPG 1.4.22

2GB File Encryption



Go Benchmarks

Test: http



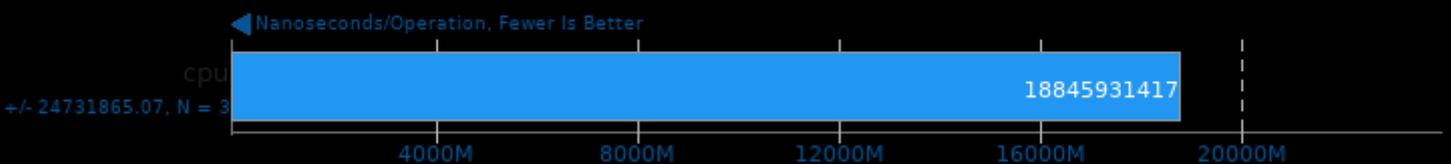
Go Benchmarks

Test: json



Go Benchmarks

Test: build



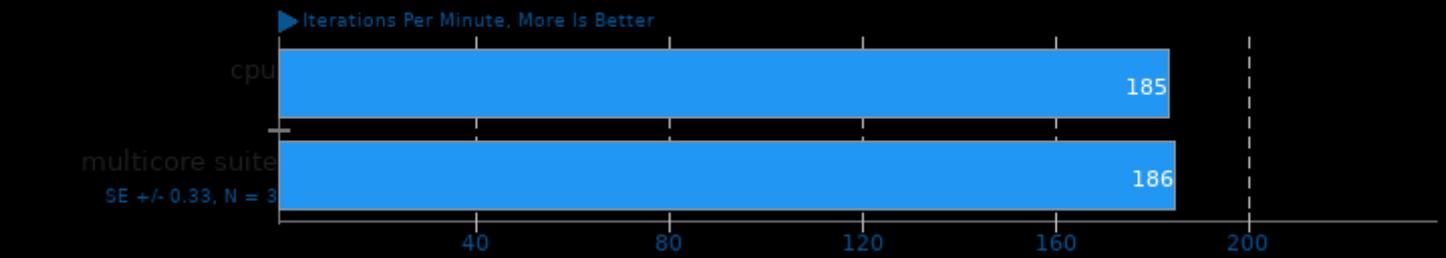
Go Benchmarks

Test: garbage



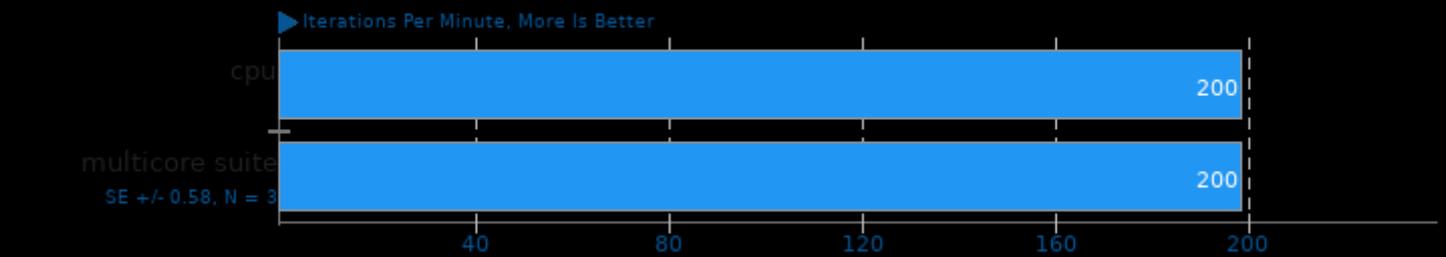
GraphicsMagick 1.3.30

Operation: Swirl



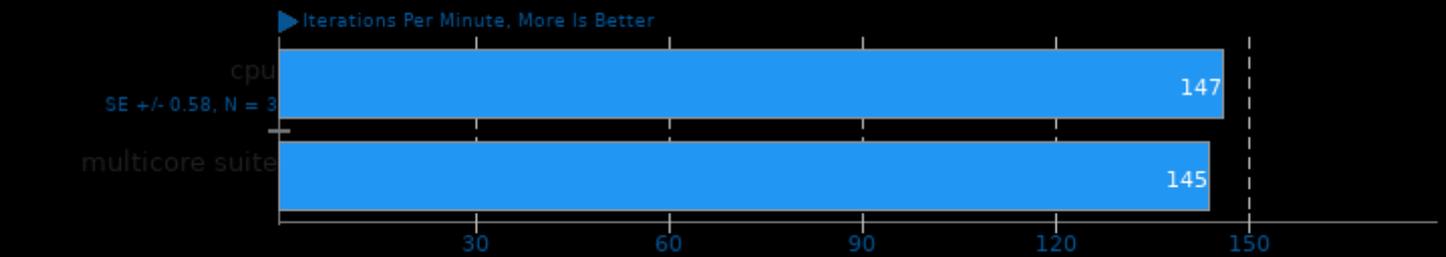
GraphicsMagick 1.3.30

Operation: Rotate



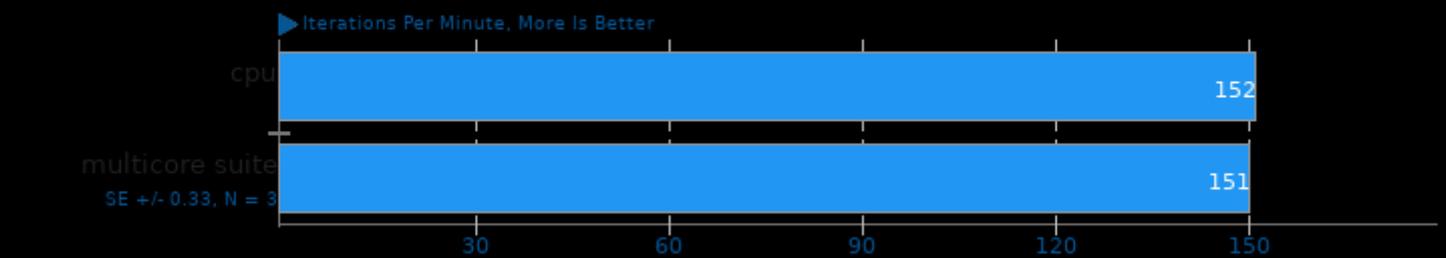
GraphicsMagick 1.3.30

Operation: Sharpen



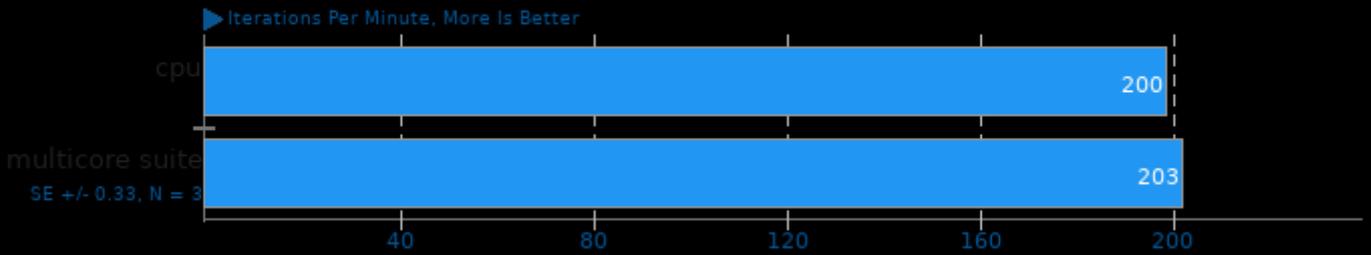
GraphicsMagick 1.3.30

Operation: Enhanced



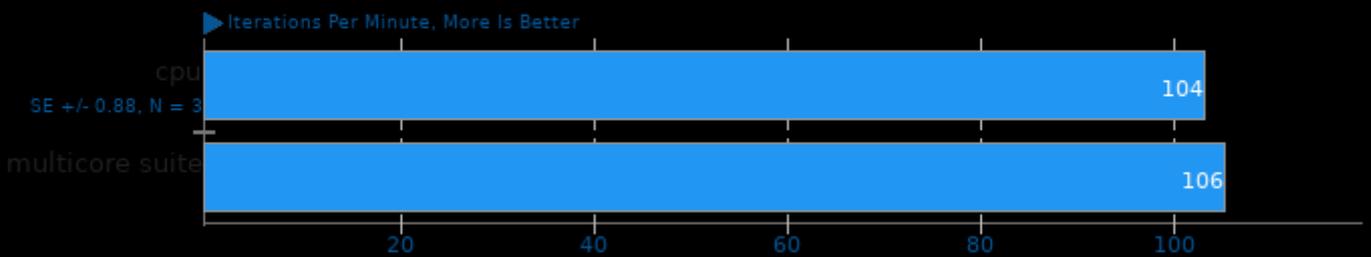
GraphicsMagick 1.3.30

Operation: Resizing



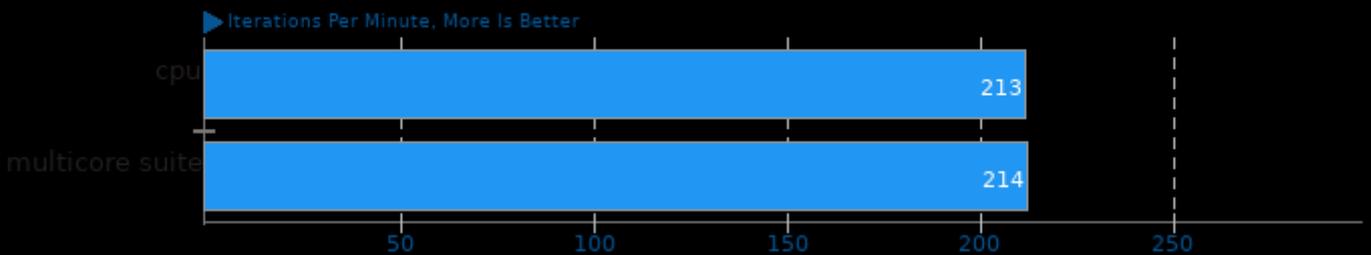
GraphicsMagick 1.3.30

Operation: Noise-Gaussian



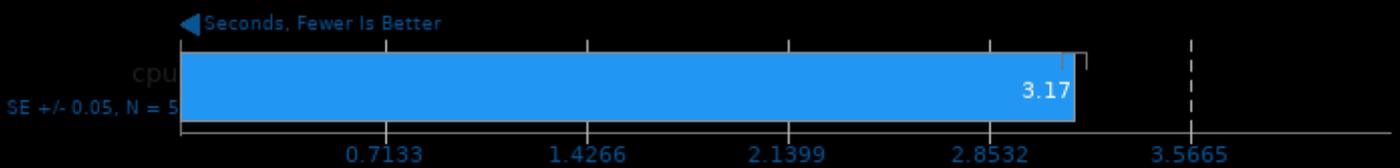
GraphicsMagick 1.3.30

Operation: HWB Color Space



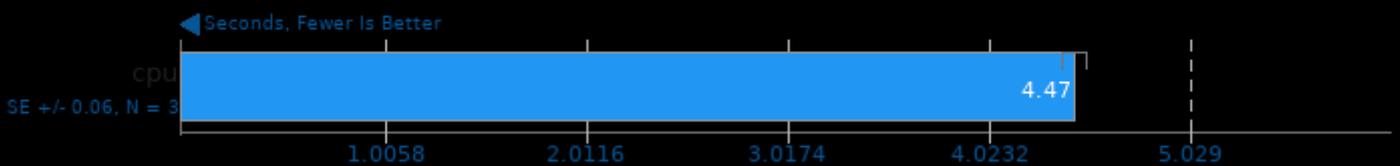
Hackbench

Count: 1 - Type: Thread



Hackbench

Count: 2 - Type: Thread



Hackbench

Count: 4 - Type: Thread



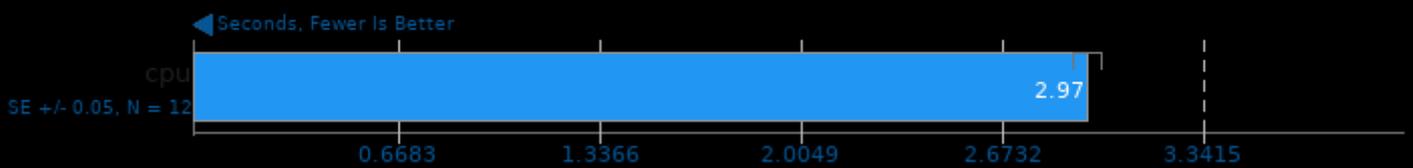
Hackbench

Count: 8 - Type: Thread



Hackbench

Count: 1 - Type: Process



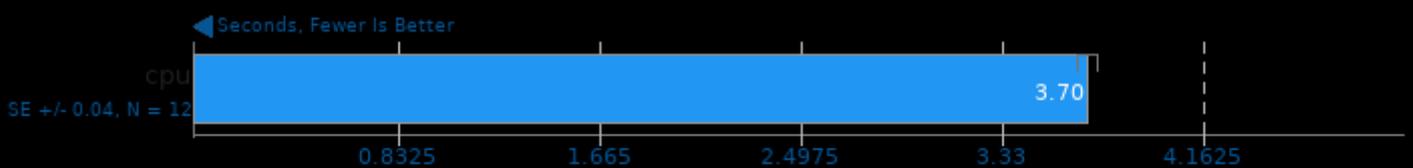
Hackbench

Count: 16 - Type: Thread



Hackbench

Count: 2 - Type: Process



Hackbench

Count: 4 - Type: Process



Hackbench

Count: 8 - Type: Process



Hackbench

Count: 16 - Type: Process



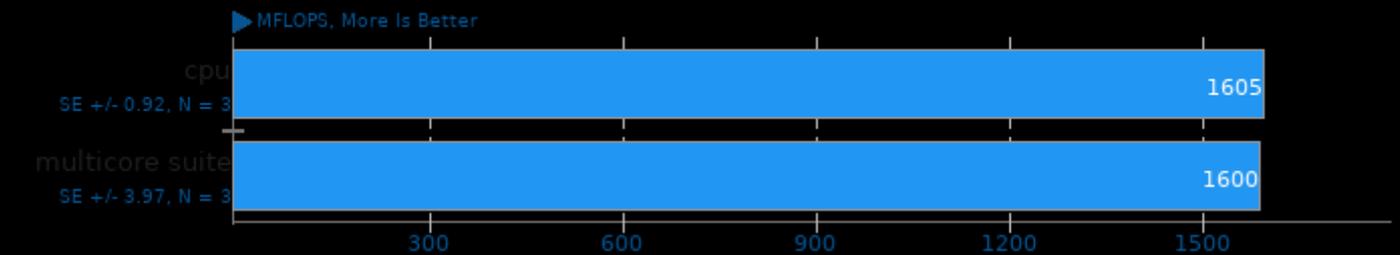
Hackbench

Count: 32 - Type: Process



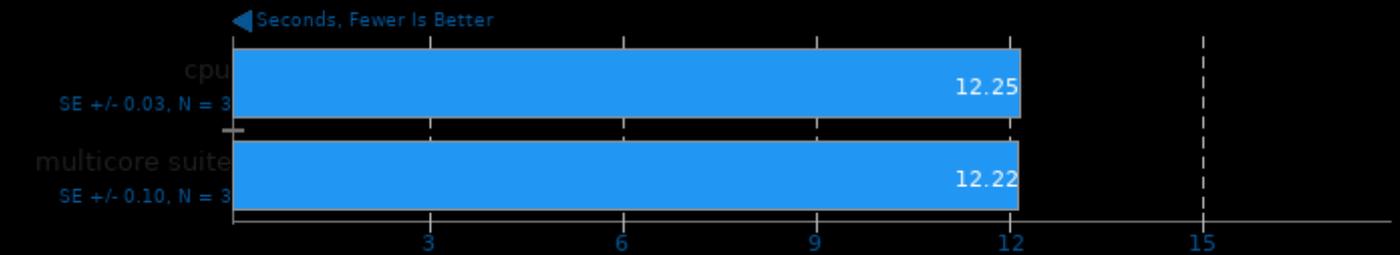
Himeno Benchmark 3.0

Poisson Pressure Solver

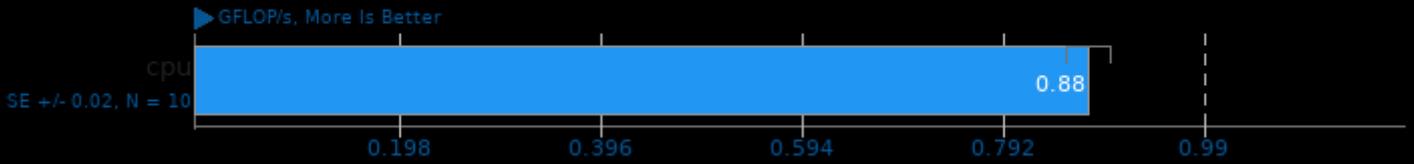


Timed HMMer Search 2.3.2

Pfam Database Search



High Performance Conjugate Gradient 3.0



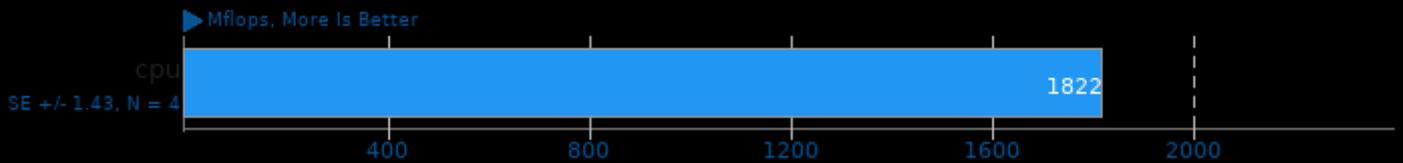
Java Gradle Build 1.0

Gradle Build: Reactor



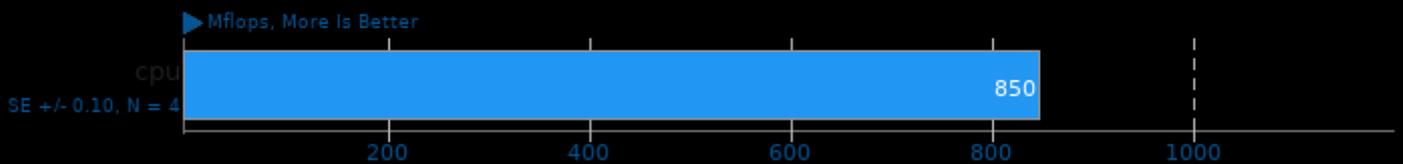
Java SciMark 2.0

Computational Test: Composite



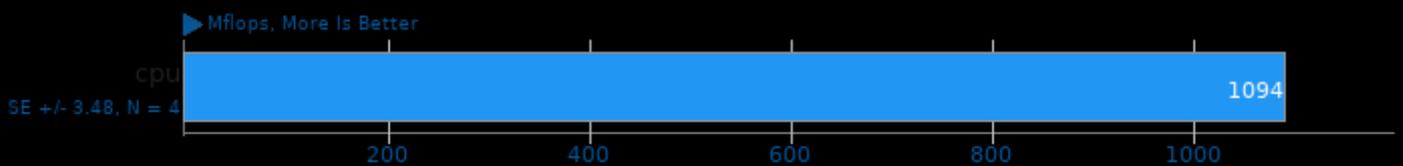
Java SciMark 2.0

Computational Test: Monte Carlo



Java SciMark 2.0

Computational Test: Fast Fourier Transform



Java SciMark 2.0

Computational Test: Sparse Matrix Multiply



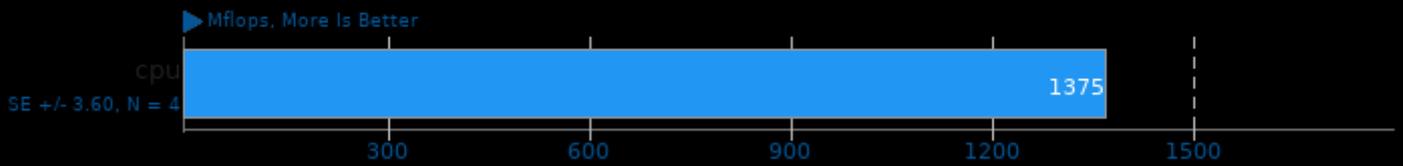
Java SciMark 2.0

Computational Test: Dense LU Matrix Factorization



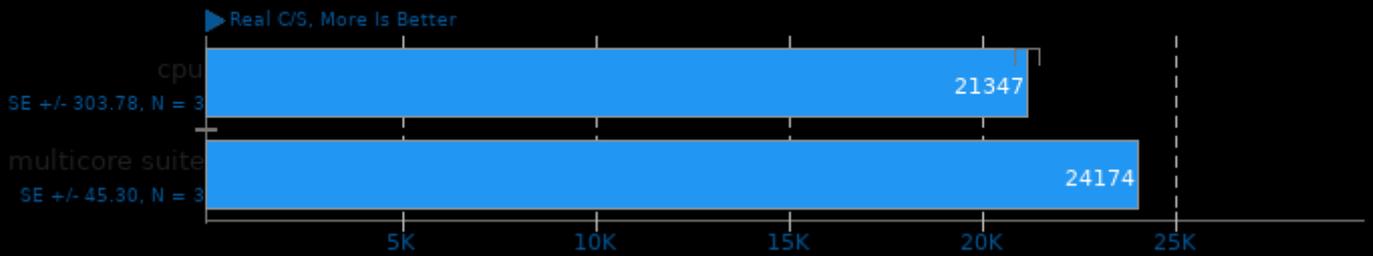
Java SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



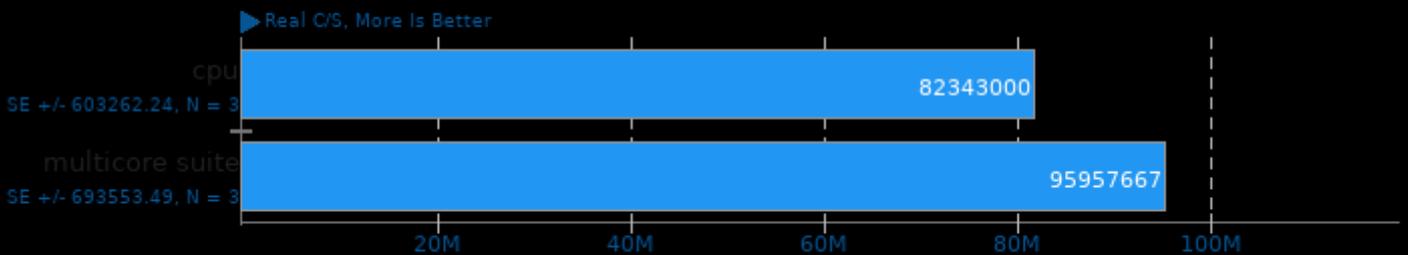
John The Ripper 1.8.0-jumbo-1

Test: Blowfish



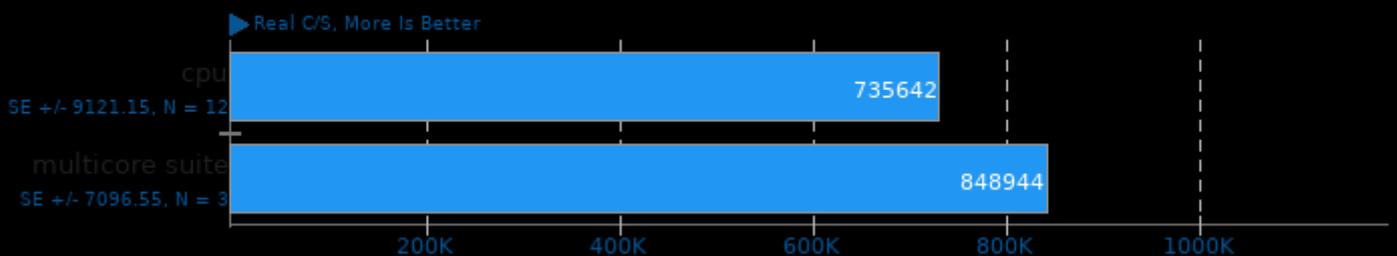
John The Ripper 1.8.0-jumbo-1

Test: Traditional DES



John The Ripper 1.8.0-jumbo-1

Test: MD5



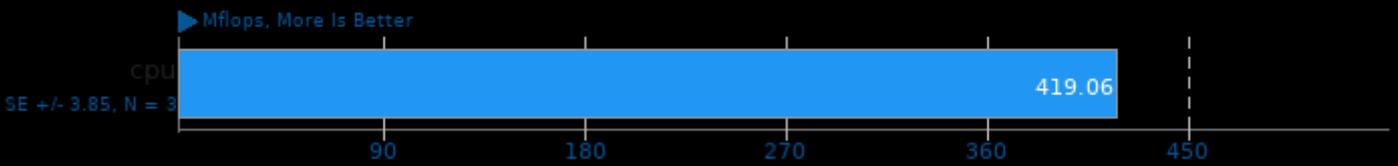
LuajIT 2.0.5

Test: Composite



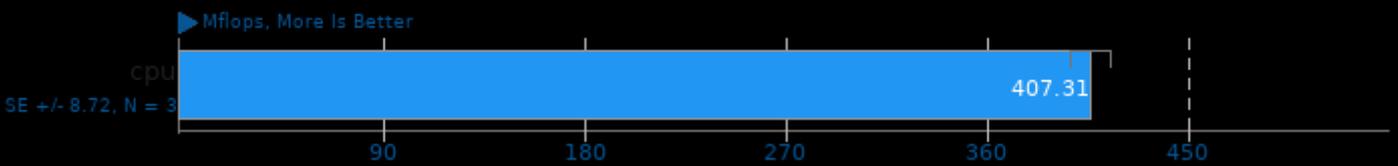
LuajIT 2.0.5

Test: Monte Carlo



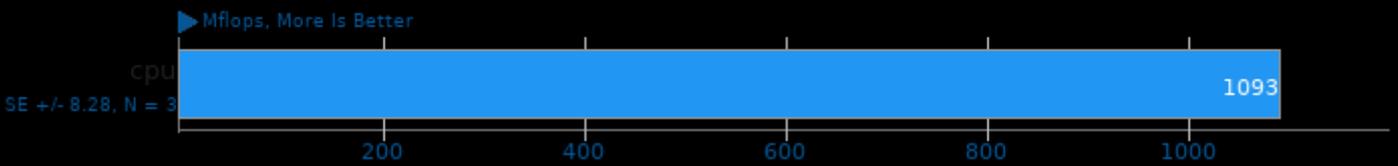
LuajIT 2.0.5

Test: Fast Fourier Transform



LuajIT 2.0.5

Test: Sparse Matrix Multiply



LuajIT 2.0.5

Test: Dense LU Matrix Factorization



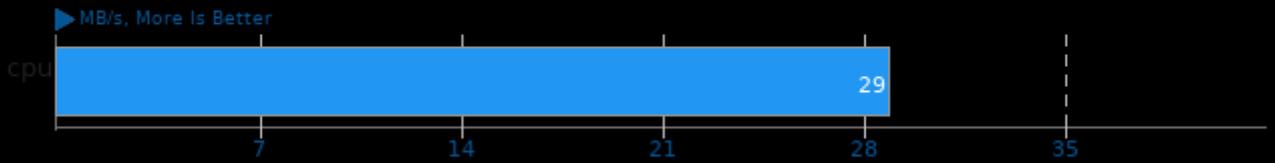
LuajIT 2.0.5

Test: Jacobi Successive Over-Relaxation



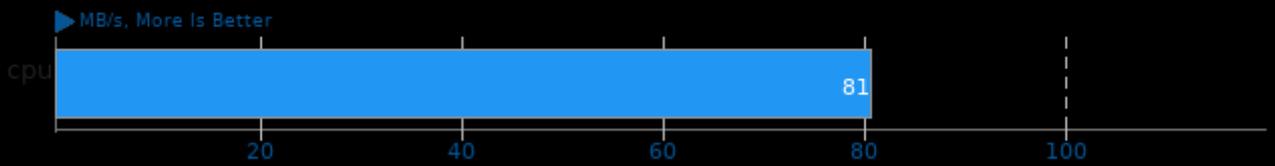
Izbench 2017-08-08

Test: XZ 0 - Process: Compression



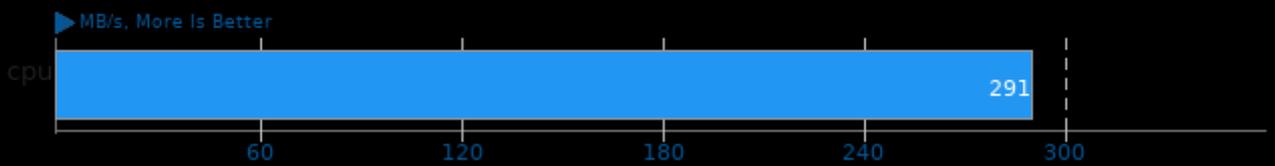
Izbench 2017-08-08

Test: XZ 0 - Process: Decompression



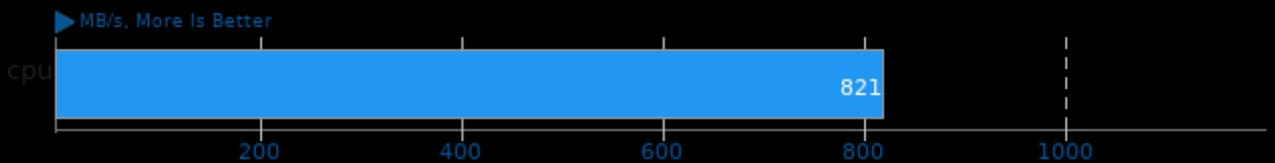
Izbench 2017-08-08

Test: Zstd 1 - Process: Compression



Izbench 2017-08-08

Test: Zstd 1 - Process: Decompression



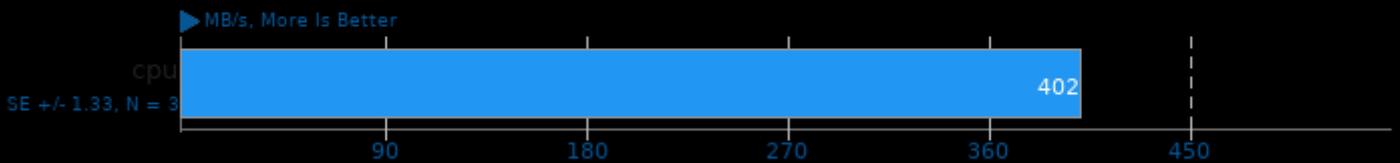
Izbench 2017-08-08

Test: Brotli 0 - Process: Compression



Izbench 2017-08-08

Test: Brotli 0 - Process: Decompression



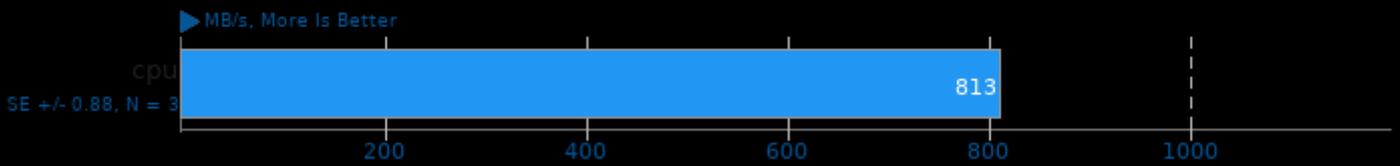
Izbench 2017-08-08

Test: Libdeflate 1 - Process: Compression



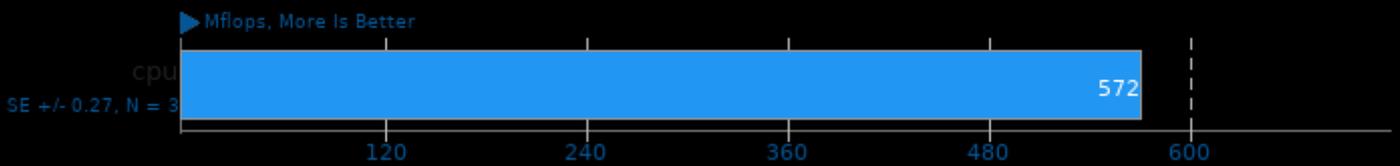
Izbench 2017-08-08

Test: Libdeflate 1 - Process: Decompression



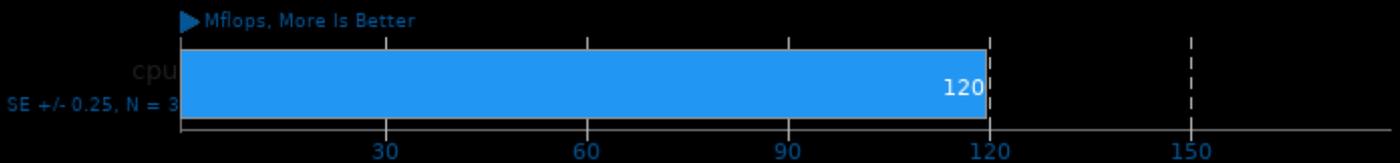
SciMark 2.0

Computational Test: Composite



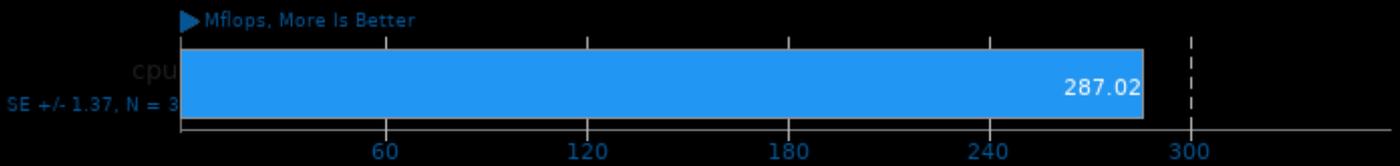
SciMark 2.0

Computational Test: Monte Carlo



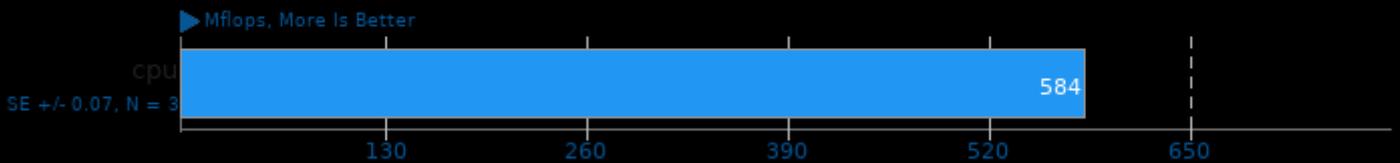
SciMark 2.0

Computational Test: Fast Fourier Transform



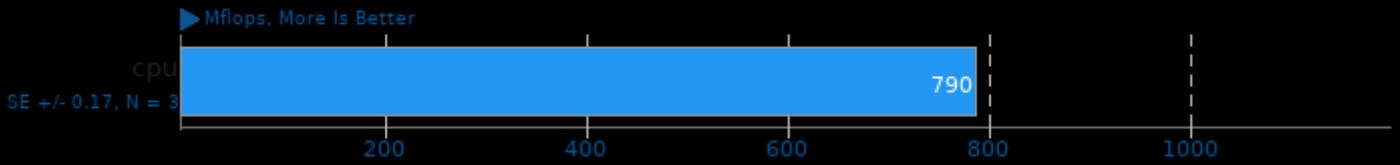
SciMark 2.0

Computational Test: Sparse Matrix Multiply



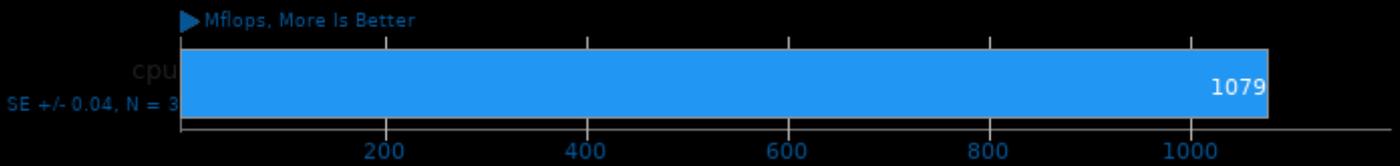
SciMark 2.0

Computational Test: Dense LU Matrix Factorization



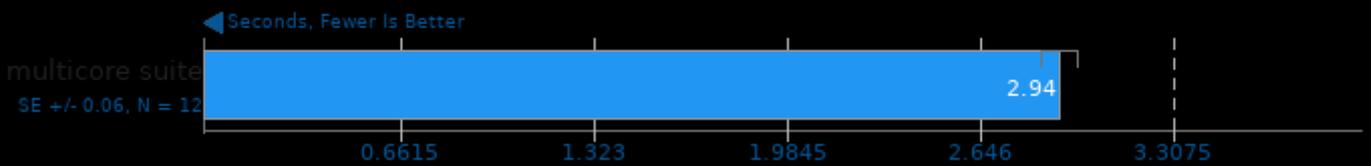
SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



Timed MAFFT Alignment 7.392

Multiple Sequence Alignment



x264 2018-07-28

H.264 Video Encoding



POV-Ray 3.7.0.7

Trace Time



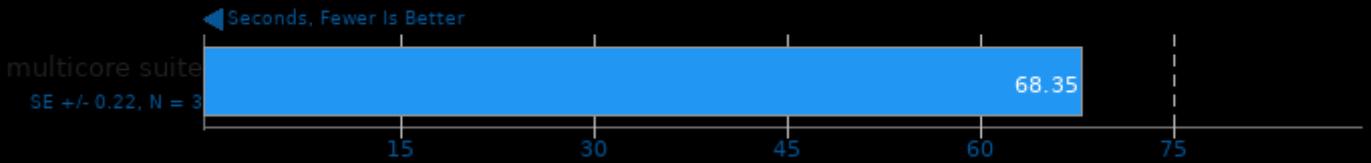
Smallpt 1.0

Global Illumination Renderer; 128 Samples



Minion 1.8

Benchmark: Graceful



Minion 1.8

Benchmark: Solitaire



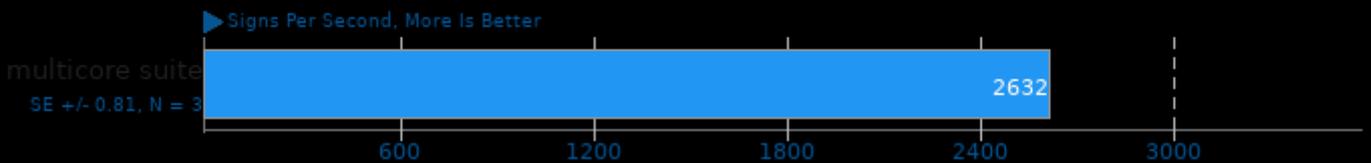
Minion 1.8

Benchmark: Quasigroup



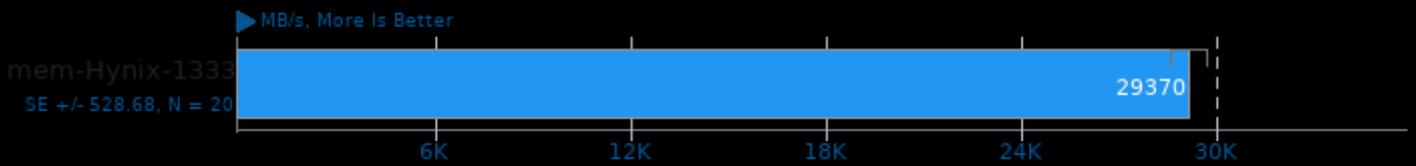
OpenSSL 1.1.1

RSA 4096-bit Performance



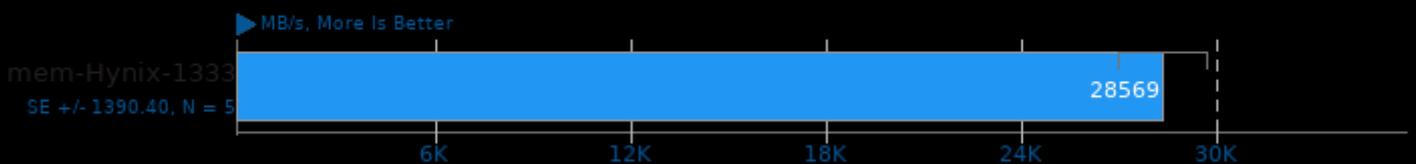
Stream 2013-01-17

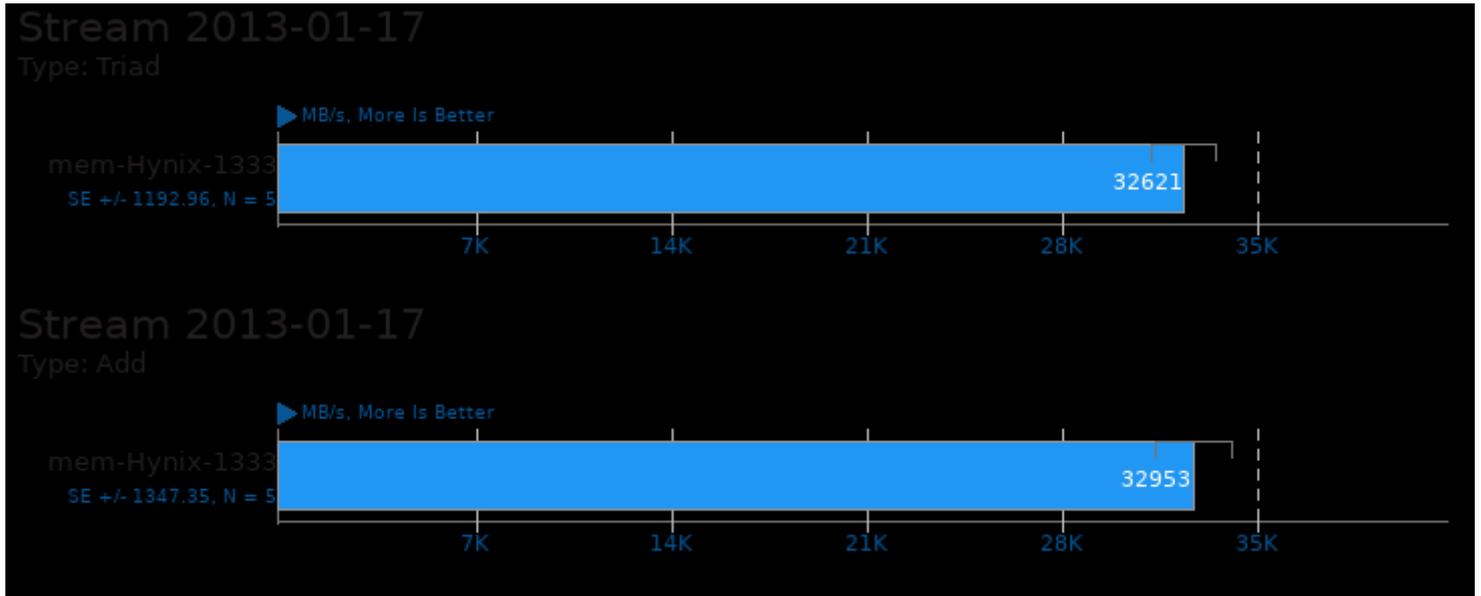
Type: Copy



Stream 2013-01-17

Type: Scale





This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 14:41.