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monito-server

Added new CPU, ram & mobo, kept everything else

Automated Executive Summary

newi9 had the most wins, coming in first place for 80% of the tests.

Based on the geometric mean of all complete results, the fastest (newi9) was 3.62x the speed of the slowest (TOSHIBA MK5065GS - Intel Core i5-2415M). bigoton-server was 0.465x the speed of newi9 and TOSHIBA MK5065GS - Intel Core i5-2415M was 0.594x the speed of bigoton-server.

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

John The Ripper (Blowfish) at 20.708x

C-Ray (Total Time) at 18.44x

PHPBench (PHP Benchmark Suite) at 4.507x

FFmpeg (H.264 HD To NTSC DV) at 3.945x

Himeno Benchmark (Poisson Pressure Solver) at 2.925x

Crafty (Elapsed Time) at 2.817x

PostMark (Disk Transaction Performance) at 2.023x

Stream (Type: Copy) at 1.827x

Stream (Type: Scale) at 1.81x

Stream (Type: Add) at 1.673x.

Test Systems:

TOSHIBA MK5065GS - Intel Core i5-2415M

Processor: Intel Core i5-2415M @ 2.90GHz (4 Cores), Motherboard: Apple Mac-8ED6AF5B48C039E1, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 8192MB, Disk: 500GB TOSHIBA MK5065GS, Graphics: Intel Sandybridge Mobile 1536MB (1300MHz), Audio: Cirrus Logic CS4206, Monitor: DELL P2715Q, Network: Broadcom NetXtreme BCM57765 Gigabit PCIe + Broadcom BCM4331 802.11a/b/g/n

OS: LinuxMint 18.1, Kernel: 4.4.0-53-generic (x86_64), Desktop: Cinnamon 3.2.7, Display Server: X Server 1.18.4, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 12.0.6, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1920x1080

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

bigoton-server

Processor: Intel Core i3-7100 @ 3.90GHz (4 Cores), Motherboard: ASRock H110M-STX, Chipset: Intel Device 590f, Memory: 8192MB, Disk: 2 x 2000GB Seagate ST2000LM015-2E81 + 3001GB FA GoFlex Desk, Graphics: Intel Kabylake GT2 3072MB (1100MHz), Audio: Realtek ALC283, Monitor: DELL P2715Q, Network: Intel Connection + Intel Wireless 3160

OS: LinuxMint 18.1, Kernel: 4.4.0-71-generic (x86_64), Desktop: Cinnamon 3.2.7, Display Server: X Server 1.18.4, Display Driver: intel 2.99.917, OpenGL: 4.3 Mesa 12.0.6, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1920x1080

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

newi9

Processor: Intel Core i9-10850K @ 5.20GHz (10 Cores / 20 Threads), Motherboard: MSI MAG B460M BAZOOKA (MS-7C83) v2.0 (A.00 BIOS), Chipset: Intel Device 9b33, Memory: 32GB, Disk: 960GB Crucial CT960M50 + 1000GB TEAM T253TD001T, Graphics: eVGA NVIDIA GeForce GTX 1080 Ti 11GB (1936/5508MHz), Audio: Realtek ALC892, Monitor: DELL P2715Q, Network: Realtek RTL8111/8168/8411 + Qualcomm Atheros AR928X

OS: Linuxmint 20, Kernel: 5.4.0-54-generic (x86_64), Desktop: Cinnamon 4.6.7, Display Server: X Server 1.20.8, Display Driver: NVIDIA 450.80.02, OpenGL: 4.6.0, Vulkan: 1.2.133, Compiler: GCC 9.3.0, File-System: ext4, Screen

Resolution: 3840x2160

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEA/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --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=auto --with-tune=generic --without-cuda-driver -v
 Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xe0 - Thermald 1.9.1

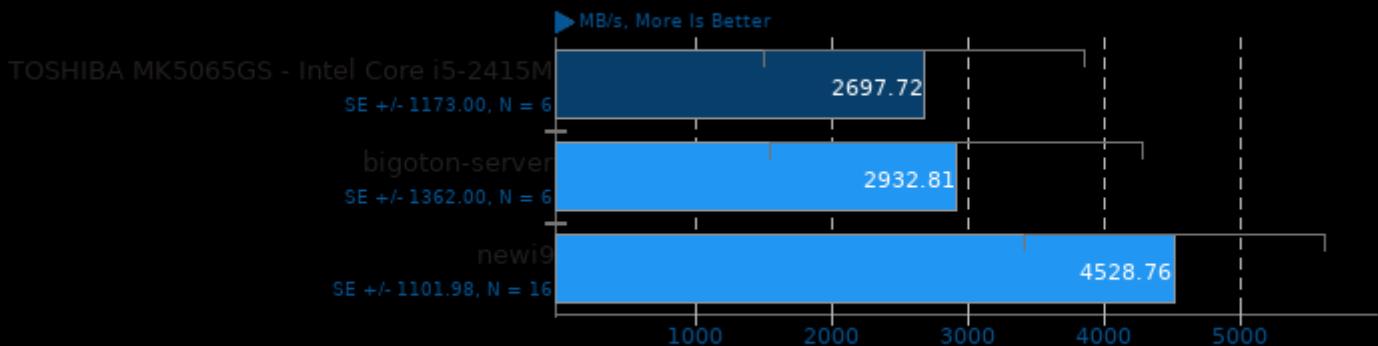
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbs: Not affected + tsx_async_abort: Not affected

	TOSHIBA MK5065GS	bigoton-server	newi9
- Intel Core i5-2415M			
IOzone - 4GB - Read Performance (MB/s)	2698	2933	4529
Normalized	59.57%	64.76%	100%
Standard Deviation	106.5%	113.8%	97.3%
IOzone - 4GB - Write Performance (MB/s)	73.79	125.07	134.34
Normalized	54.93%	93.1%	100%
Standard Deviation	1.9%	1.5%	25.9%
PostMark - D.T.P (TPS)	4213	7010	8524
Normalized	49.43%	82.24%	100%
Standard Deviation	1%	1.6%	1.9%
Stream - Copy (MB/s)	12232	11736	21436
Normalized	57.06%	54.75%	100%
Standard Deviation	0%	0.1%	0.2%
Stream - Scale (MB/s)	12230	8769	15871
Normalized	77.06%	55.25%	100%
Standard Deviation	0.1%	0.1%	0%
Stream - Triad (MB/s)	13381	10172	17004
Normalized	78.69%	59.82%	100%
Standard Deviation	0.2%	0.1%	0.1%
Stream - Add (MB/s)	13359	10164	17001
Normalized	78.58%	59.78%	100%
Standard Deviation	0.2%	0.2%	0.1%
NAS Parallel Benchmarks - LU.A (Mop/s)	4216	3765	
Normalized	100%	89.31%	
Standard Deviation	1.6%	6.1%	
Timed HMMer Search - P.D.S (sec)	42.54	16.20	4.806
Normalized	11.3%	29.67%	100%
Standard Deviation	10.9%	1.3%	0.6%
Timed MAFFT Alignment - M.S.A (sec)	19.50	9.38	2.454
Normalized	12.58%	26.16%	100%
Standard Deviation	8.7%	4.2%	6.3%
John The Ripper - Blowfish (Real C/S)	1069	3897	22137
Normalized	4.83%	17.6%	100%
Standard Deviation	1.5%	0.5%	0.1%
GraphicsMagick - HWB Color Space (Iterations/min)	80	195	
Normalized	41.03%	100%	
Standard Deviation	20.8%		
Himeno Benchmark - P.P.S (MFLOPS)	1038	2135	3037

Normalized	34.18%	70.3%	100%
Standard Deviation	2.3%	0.2%	1.6%
C-Ray - Total Time (sec)	118.68	45.41	6.436
Normalized	5.42%	14.17%	100%
Standard Deviation	3.5%	0.2%	0.1%
Parallel BZIP2 Compression - 2.F.C (sec)	41.25	18.78	3.372
Normalized	8.17%	17.96%	100%
Standard Deviation	7.5%	5.5%	0.3%
Bullet Physics Engine - 3000 Fall (sec)	10.91		3.364126
Normalized	30.84%		100%
Standard Deviation	36.9%		1.8%
Bullet Physics Engine - Convex Trimesh	2.72		0.92698
Normalized	34.08%		100%
Standard Deviation	25.7%		0.1%
LZMA Compression - 2.F.C (sec)	559.67	273.85	194.459
Normalized	34.75%	71.01%	100%
Standard Deviation	12.3%	2.9%	0.1%
Crafty - Elapsed Time (sec)	140.10	65.86	49.74
Normalized	35.5%	75.52%	100%
Standard Deviation	2.2%	0.1%	0.1%
LAME MP3 Encoding - WAV To MP3 (sec)	22.51	11.25	
Normalized	49.98%	100%	
Standard Deviation	6.2%	1.2%	
FFmpeg - H.2.H.T.N.D (sec)	27.48	12.74	6.965
Normalized	25.35%	54.67%	100%
Standard Deviation	2.7%	3.4%	0.9%
OpenSSL - R.4.b.P (Signs/sec)	122.28		2097
Normalized	5.83%		100%
Standard Deviation	19.7%		0.8%
NGINX Benchmark - S.W.P.S (Req/sec)	16124	48284	
Normalized	33.39%	100%	
Standard Deviation	24.2%	0.9%	
Apache Benchmark - S.W.P.S (Req/sec)	10415	38142	
Normalized	27.31%	100%	
Standard Deviation	21.8%	0.4%	
PHPBench - P.B.S (Score)	193985	502302	874324
Normalized	22.19%	57.45%	100%
Standard Deviation	2.2%	0.7%	0.5%

IOzone 3.405

Size: 4GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.405

Size: 4GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

PostMark 1.51

Disk Transaction Performance



1. (CC) gcc options: -O3

Stream 2013-01-17

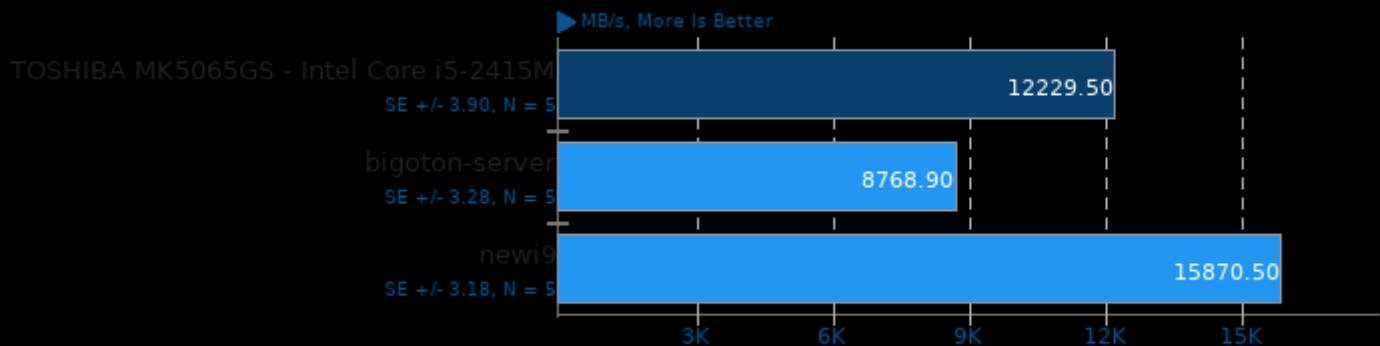
Type: Copy



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

Stream 2013-01-17

Type: Scale



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

Stream 2013-01-17

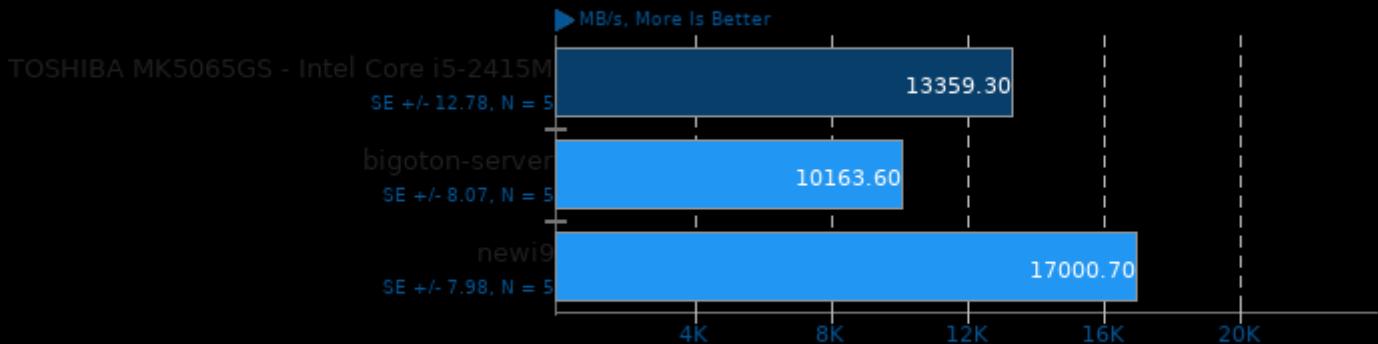
Type: Triad



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

Stream 2013-01-17

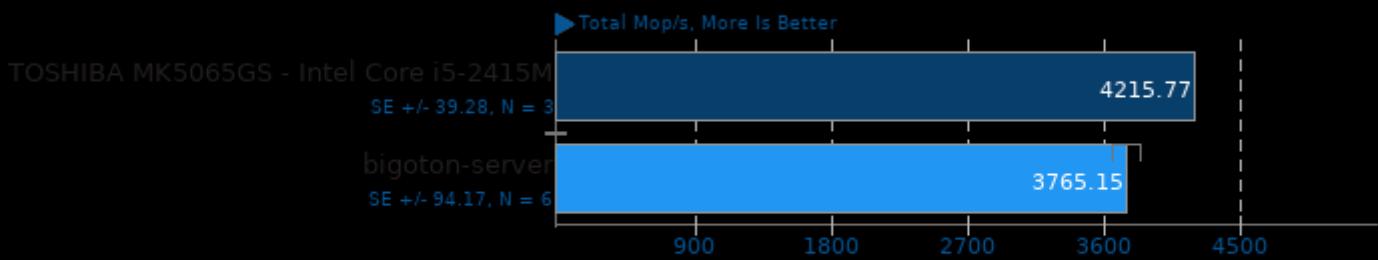
Type: Add



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

NAS Parallel Benchmarks 3.3

Test / Class: LU.A

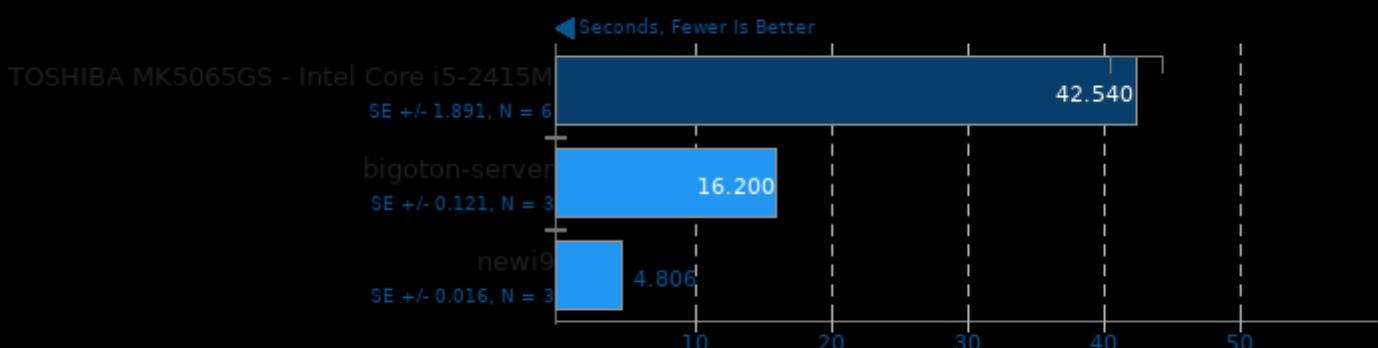


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi

2. Open MPI 1.10.2

Timed HMMer Search 2.3.2

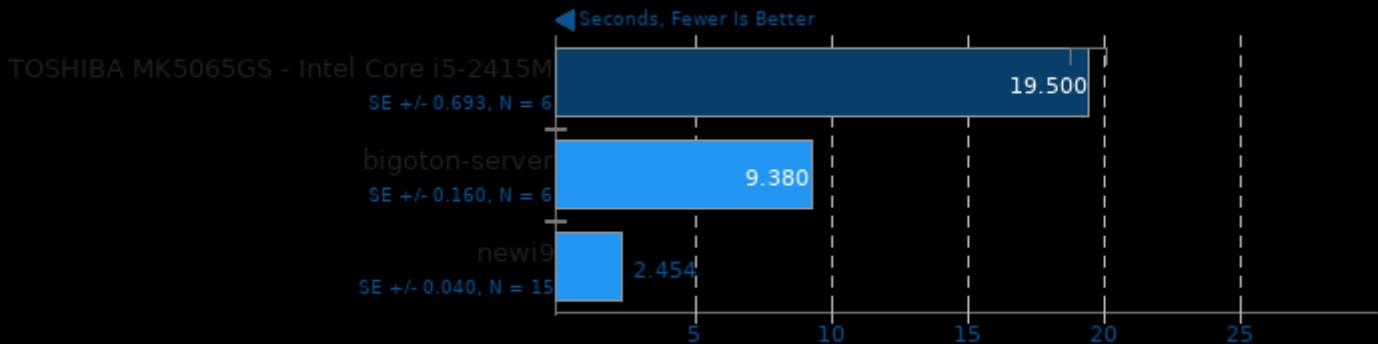
Pfam Database Search



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

Timed MAFFT Alignment 6.864

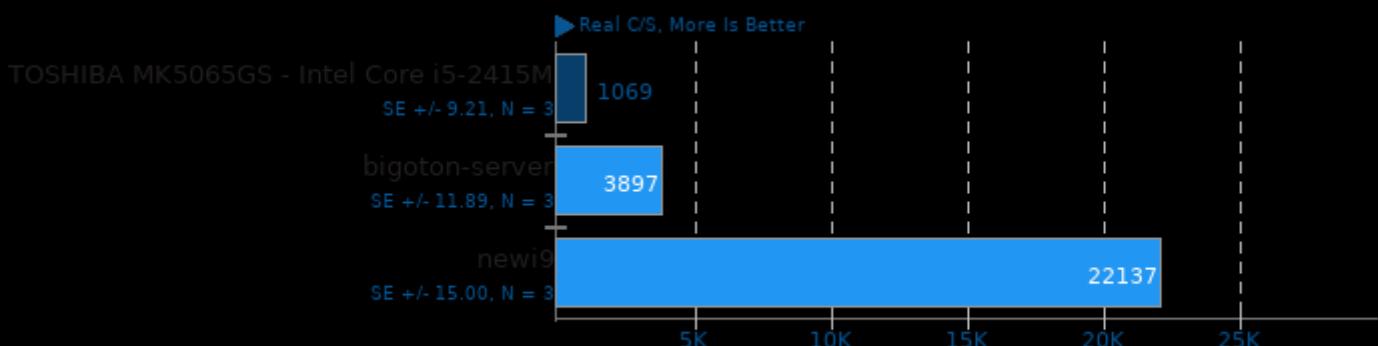
Multiple Sequence Alignment



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

John The Ripper 1.8.0

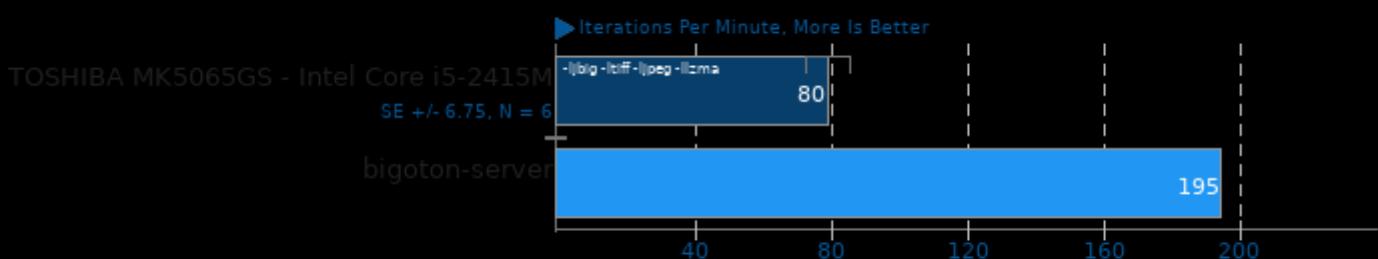
Blowfish



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

GraphicsMagick 1.3.19

Operation: HWB Color Space



1. (CC) gcc options: -fopenmp -O2 -pthread -lXext -lSM -ICE -lX11 -lz -lm -lgomp -lpthread

Himeno Benchmark 3.0

Poisson Pressure Solver



1. (CC) gcc options: -O3

C-Ray 1.1

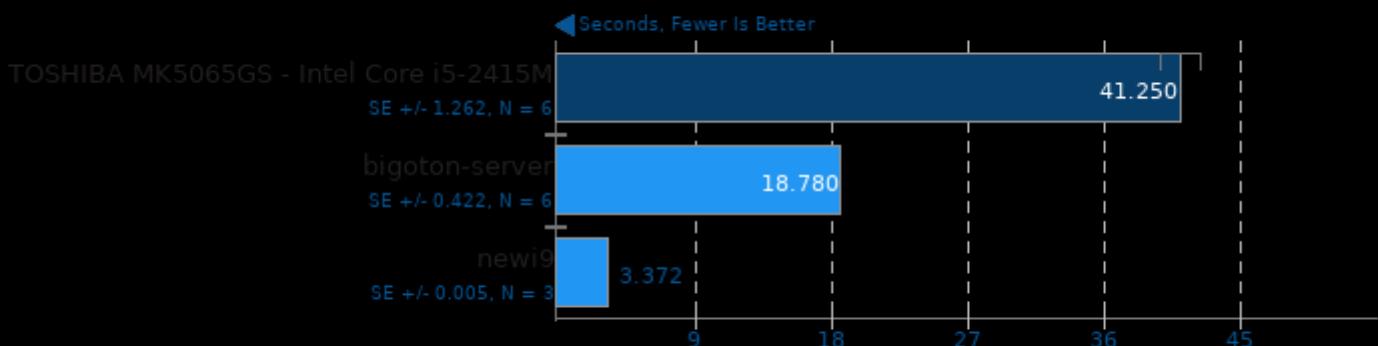
Total Time



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

Parallel BZIP2 Compression 1.1.12

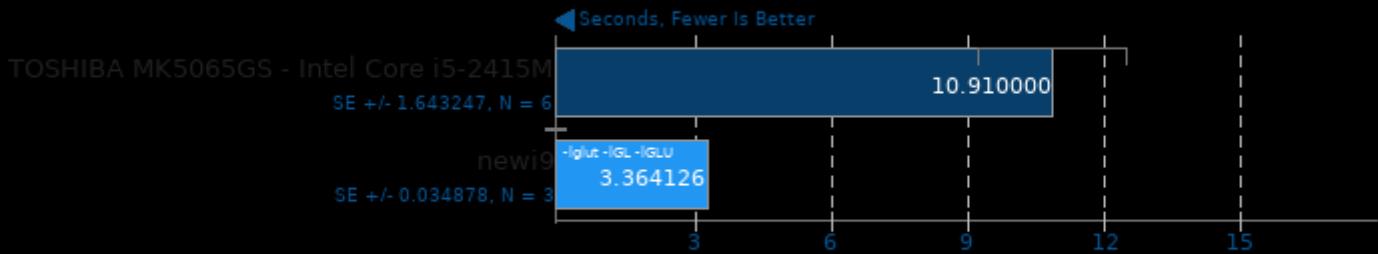
256MB File Compression



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

Bullet Physics Engine 2.81

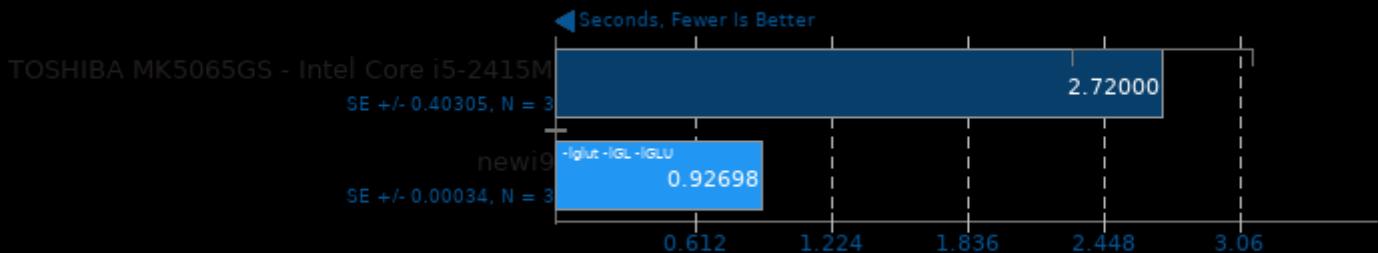
Test: 3000 Fall



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

Bullet Physics Engine 2.81

Test: Convex Trimesh



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

LZMA Compression

256MB File Compression



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

Crafty 23.4

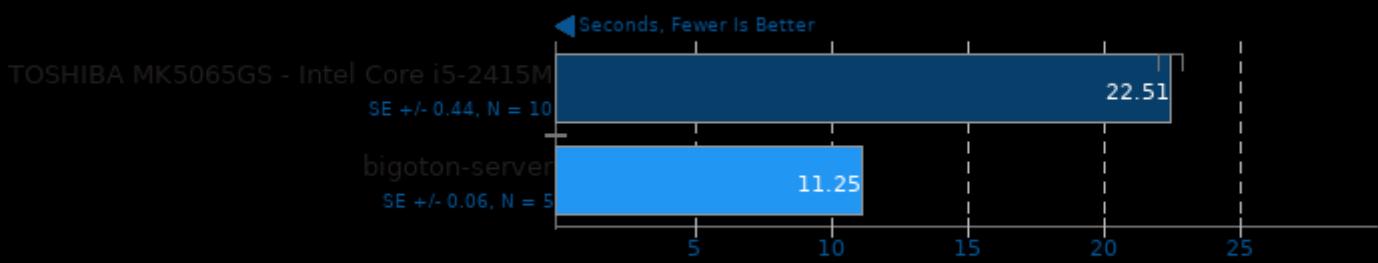
Elapsed Time



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

LAME MP3 Encoding 3.99.3

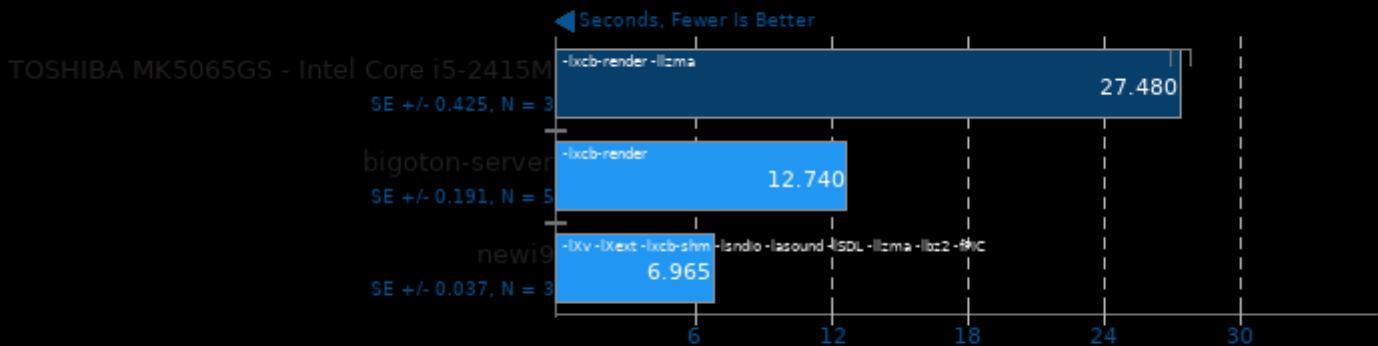
WAV To MP3



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

FFmpeg 2.8.1

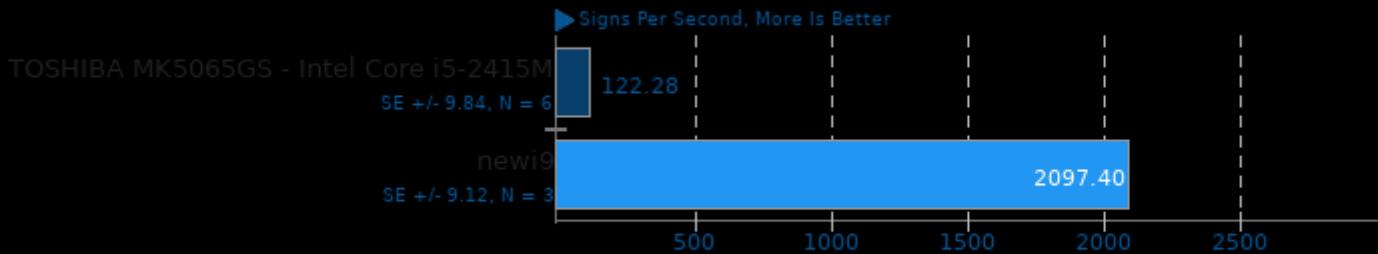
H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lxcb -xcb-xfixes -xcb-shape -X11 -lm -pthread -std=c99 -fo

OpenSSL 1.0.1g

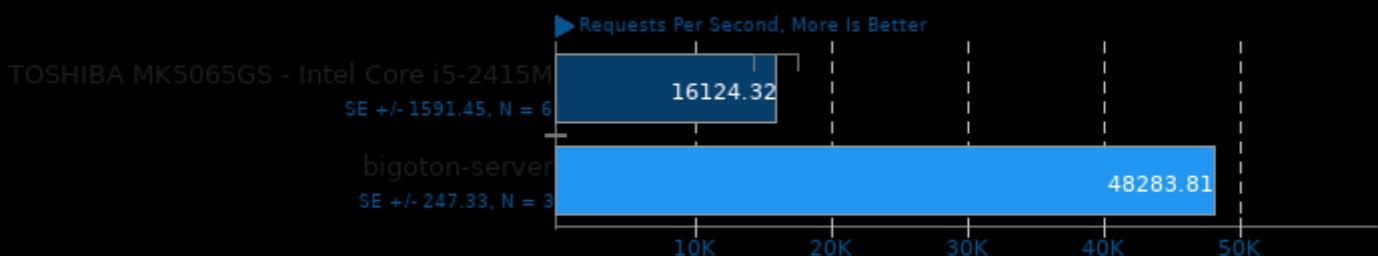
RSA 4096-bit Performance



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

NGINX Benchmark 1.0.11

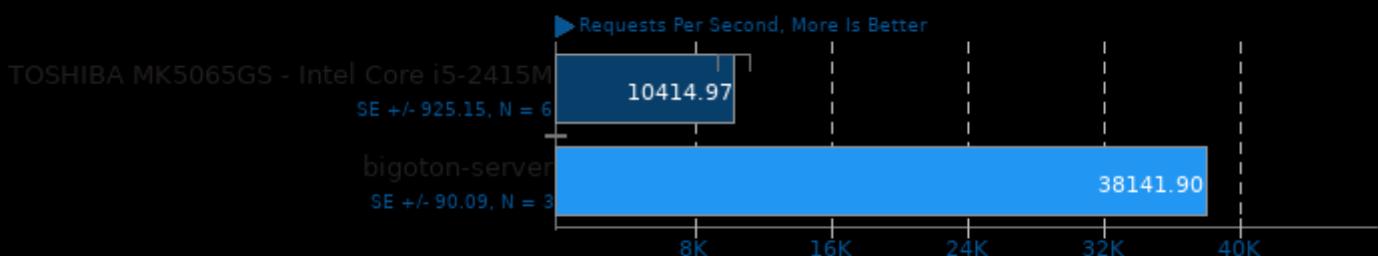
Static Web Page Serving



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

Apache Benchmark 2.4.7

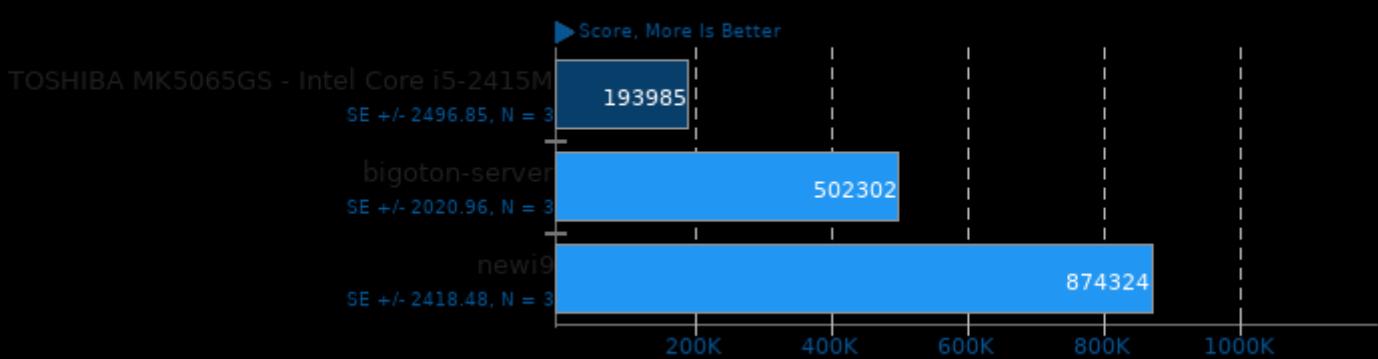
Static Web Page Serving



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

PHPBench 0.8.1

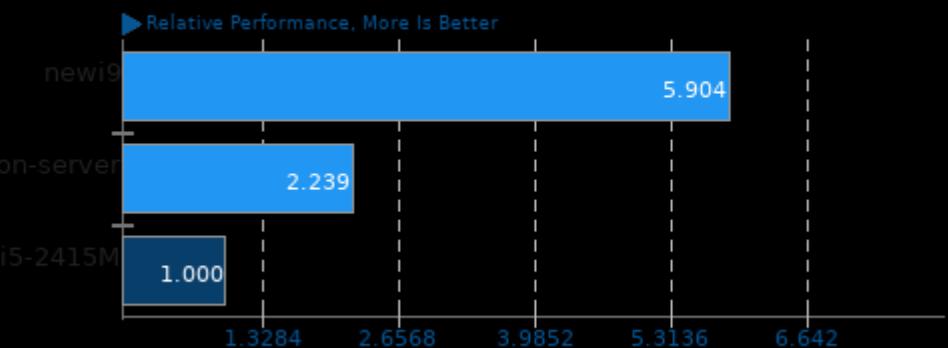
PHP Benchmark Suite



These geometric means are based upon test groupings / test suites for this result file.

Geometric Mean Of Bioinformatics Tests

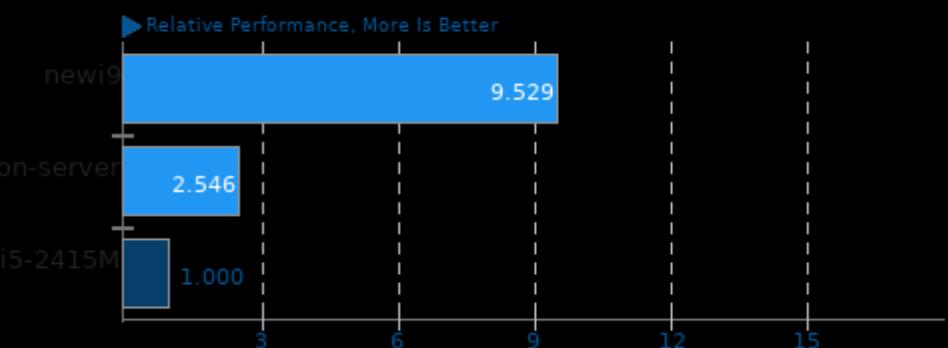
Result Composite - monito-server



Geometric mean based upon tests: pts/himeno, pts/hmmer and pts/mafft

Geometric Mean Of C/C++ Compiler Tests

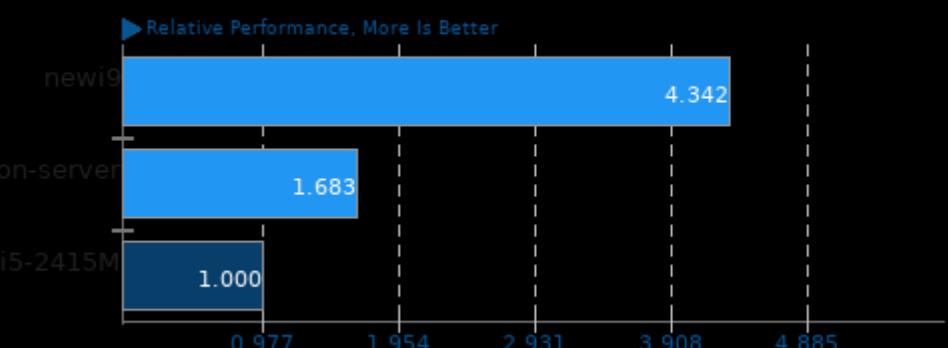
Result Composite - monito-server



Geometric mean based upon tests: pts/mafft, pts/graphics-magick, pts/himeno, pts/hmmer, pts/c-ray, pts/bullet, pts/encode-mp3, pts/apache, pts/john-the-ripper, pts/openssl and pts/nginx

Geometric Mean Of CPU Massive Tests

Result Composite - monito-server

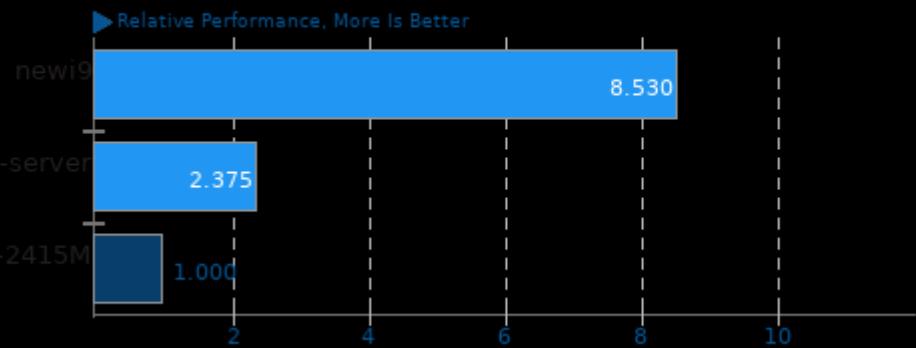


Geometric mean based upon tests: pts/apache, pts/c-ray, pts/compress-pbzip2, pts/crafty, pts/encode-mp3, pts/graphics-magick, pts/himeno, pts/hmmer, pts/john-the-ripper, pts/openssl, pts/mafft, pts/nginx, pts/npb, pts/phpbench and pts/stream

monito-server

Geometric Mean Of Creator Workloads Tests

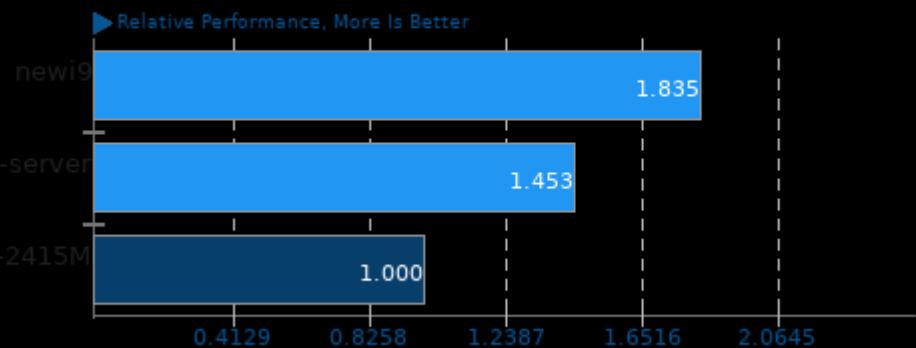
Result Composite - monito-server



Geometric mean based upon tests: pts/c-ray, pts/ffmpeg, pts/encode-mp3 and pts/graphics-magick

Geometric Mean Of Disk Test Suite

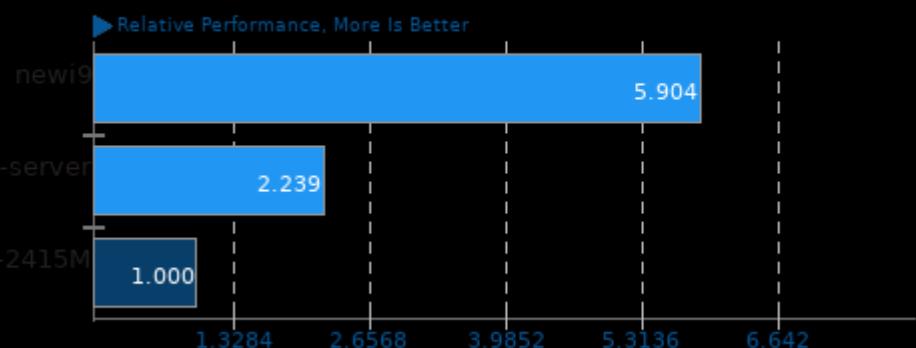
Result Composite - monito-server



Geometric mean based upon tests: pts/iozone and pts/postmark

Geometric Mean Of HPC - High Performance Computing Tests

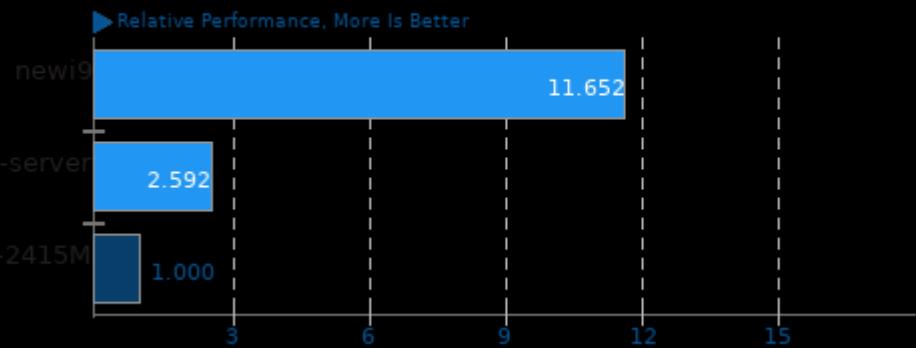
Result Composite - monito-server



Geometric mean based upon tests: pts/npb, pts/himeno, pts/hmmer and pts/mafft

Geometric Mean Of Multi-Core Tests

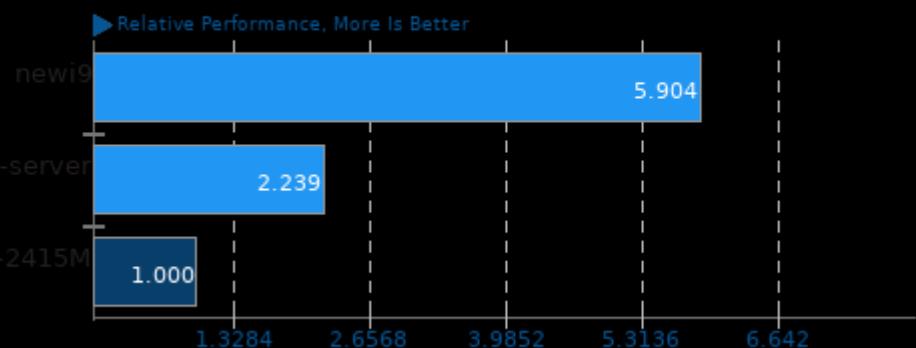
Result Composite - monito-server



Geometric mean based upon tests: pts/c-ray, pts/ffmpeg, pts/npb, pts/john-the-ripper, pts/graphics-magick and pts/compress-pbzip2

Geometric Mean Of Scientific Computing Tests

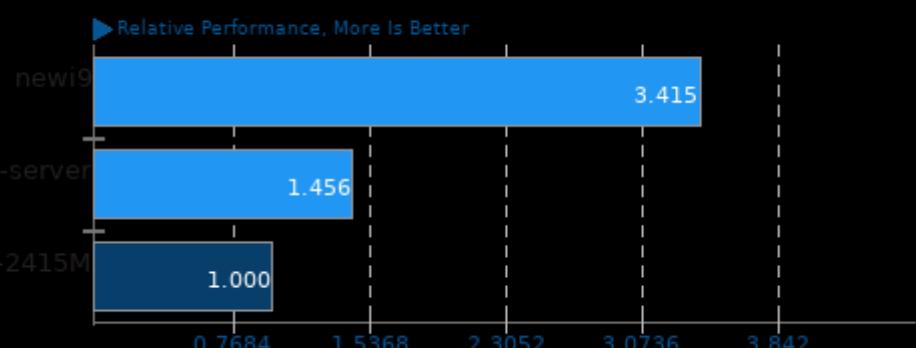
Result Composite - monito-server



Geometric mean based upon tests: pts/himeno, pts/hmmer and pts/mafft

Geometric Mean Of Server CPU Tests

Result Composite - monito-server



Geometric mean based upon tests: pts/npb, pts/john-the-ripper, pts/himeno, pts/c-ray, pts/openssl, pts/phpbench and pts/stream

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 05:11.