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9000

Test Systems:

test

Processor: AMD Phenom II X4 945 @ 3.00GHz (4 Cores), Motherboard: Gigabyte GA-MA78GM-S2H, Memory: 6144MB, Disk: 160GB Seagate ST3160215AS, Graphics: Gallium 0.4 on AMD RS780 512MB, Audio: Realtek ALC889A, Monitor: PLE2607WS

OS: Calculate Linux Desktop 11.15 GNOME, Kernel: 3.3.3-calculate (x86_64), Desktop: GNOME Shell 3.2.2.1, Display Server: X Server 1.11.2, OpenGL: 2.1 Mesa 7.11.2 Gallium 0.4, Compiler: GCC 4.5.3 + LLVM 2.9, File-System: ext4, Screen Resolution: 1920x1200

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Processor: Intel Core i7-4790K @ 4.40GHz (4 Cores / 8 Threads), Motherboard: MSI Z97-G43 GAMING (MS-7816) v2.0 (V13.9 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 16384MB, Disk: 250GB Samsung SSD 840 + 500GB Samsung SSD 860 + 1000GB Seagate ST1000DM003-1ER1, Graphics: NVIDIA GeForce GTX 970 4GB (1151/3505MHz), Audio: Realtek ALC1150, Monitor: LEN L27q-10, Network: Qualcomm Atheros Killer E220x + Broadcom BCM4360 802.11ac

OS: ManjaroLinux 18.1.4, Kernel: 5.4.2-1-MANJARO (x86_64), Desktop: GNOME Shell 3.34.1, Display Server: X Server 1.20.6, Display Driver: NVIDIA 440.36, OpenGL: 4.6.0, Compiler: GCC 9.2.0 + Clang 9.0.0, File-System: ext4, Screen Resolution: 4480x1440

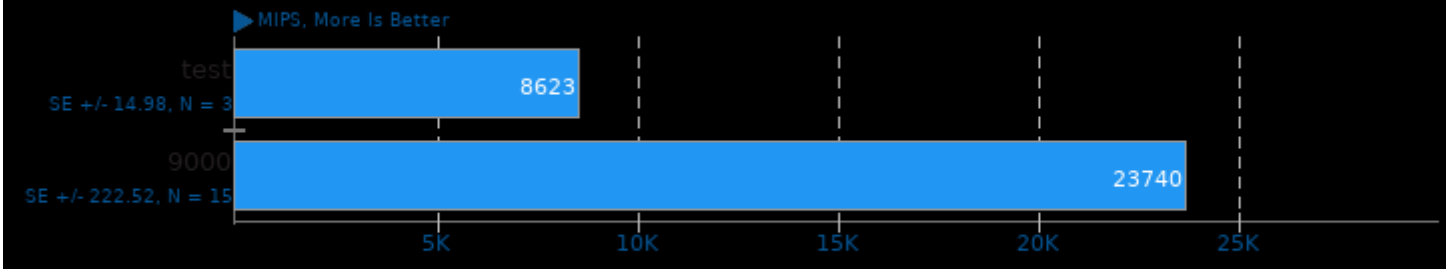
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x27
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + tsx_async_abort: Not affected

	test	9000
7-Zip Compression - C.S.T (MIPS)	**8623**	**23740**
Normalized	36.32%	100%
Standard Deviation	0.3%	3.6%
Parallel BZIP2 Compression - 2.F.C (sec)	17.14	
Standard Deviation	0.2%	
x264 - H.2.V.E (FPS)	63.26	
Standard Deviation	0.3%	
OpenSSL - R.4.b.P (Signs/sec)	56.65	
Standard Deviation	0.2%	
Gcrypt Library - C.E.C (us)	3200	
Standard Deviation	0.3%	
John The Ripper - Blowfish (Real C/S)	**3399**	**7459**
Normalized	45.57%	100%
Standard Deviation	0.1%	0.1%
GraphicsMagick - L.A.T (Iterations/min)	43	
Standard Deviation	0%	
GraphicsMagick - Resizing (Iterations/min)	99	
Standard Deviation	0.6%	
Himeno Benchmark - P.P.S (MFLOPS)	**508.79**	**2329**
Normalized	21.84%	100%
Standard Deviation	0.4%	0.2%
C-Ray - Total Time (sec)	**93.79**	**20.010**
Normalized	21.33%	100%
Standard Deviation	0%	0%
Smallpt - G.I.R.1.S (sec)	**204**	**63**
Normalized	30.88%	100%
Standard Deviation	0%	
Crafty - Elapsed Time (sec)	113.59	
Standard Deviation	0.4%	
Timed HMMer Search - P.D.S (sec)	25.11	

Standard Deviation	1%	
Timed MAFFT Alignment - M.S.A (sec)	13.07	
Standard Deviation	0%	
Minion - Quasigroup (sec)	233.02	
Standard Deviation	1.3%	
Minion - Solitaire (sec)	389.58	
Standard Deviation	35.3%	
NAS Parallel Benchmarks - EP.B (Mop/s)	**87.64**	**624.62**
Normalized	14.03%	100%
Standard Deviation	0.8%	0.7%
NAS Parallel Benchmarks - IS.C (Mop/s)	**68.99**	**265.79**
Normalized	25.96%	100%
Standard Deviation	3.5%	0.3%
NAS Parallel Benchmarks - LU.A (Mop/s)	**4446**	**16851**
Normalized	26.39%	100%
Standard Deviation	0.6%	0.2%
NAS Parallel Benchmarks - UA.A (Mop/s)	**18.38**	**54.43**
Normalized	33.77%	100%
Standard Deviation	1.1%	0.3%
Timed PHP Compilation - Time To Compile (sec)	**54.52**	**31.033**
Normalized	56.92%	100%
Standard Deviation	1.4%	0.3%

7-Zip Compression 9.20.1

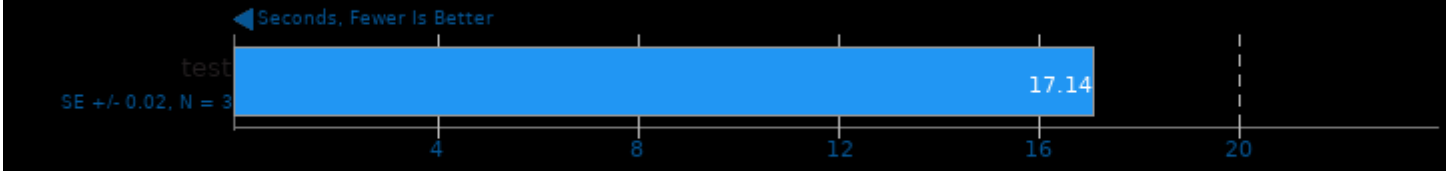
Compress Speed Test



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

Parallel BZIP2 Compression 1.0.5

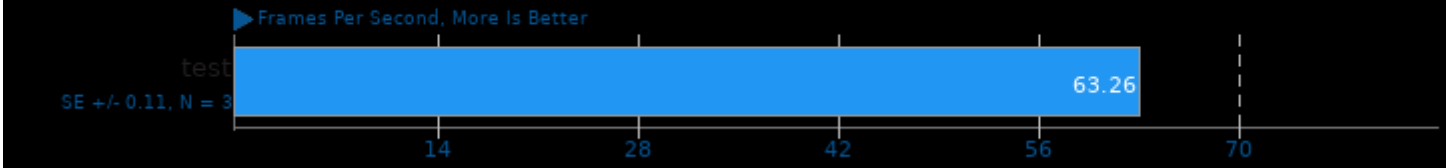
256MB File Compression



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

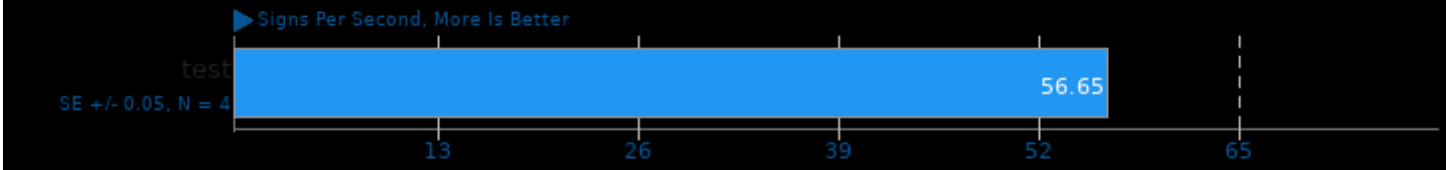
x264 2011-12-06

H.264 Video Encoding



OpenSSL 1.0.0e

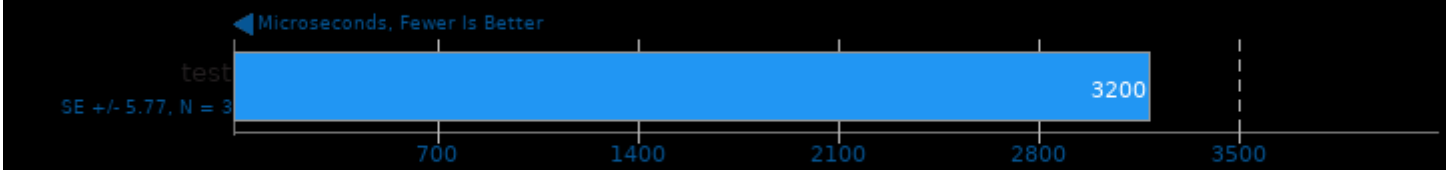
RSA 4096-bit Performance



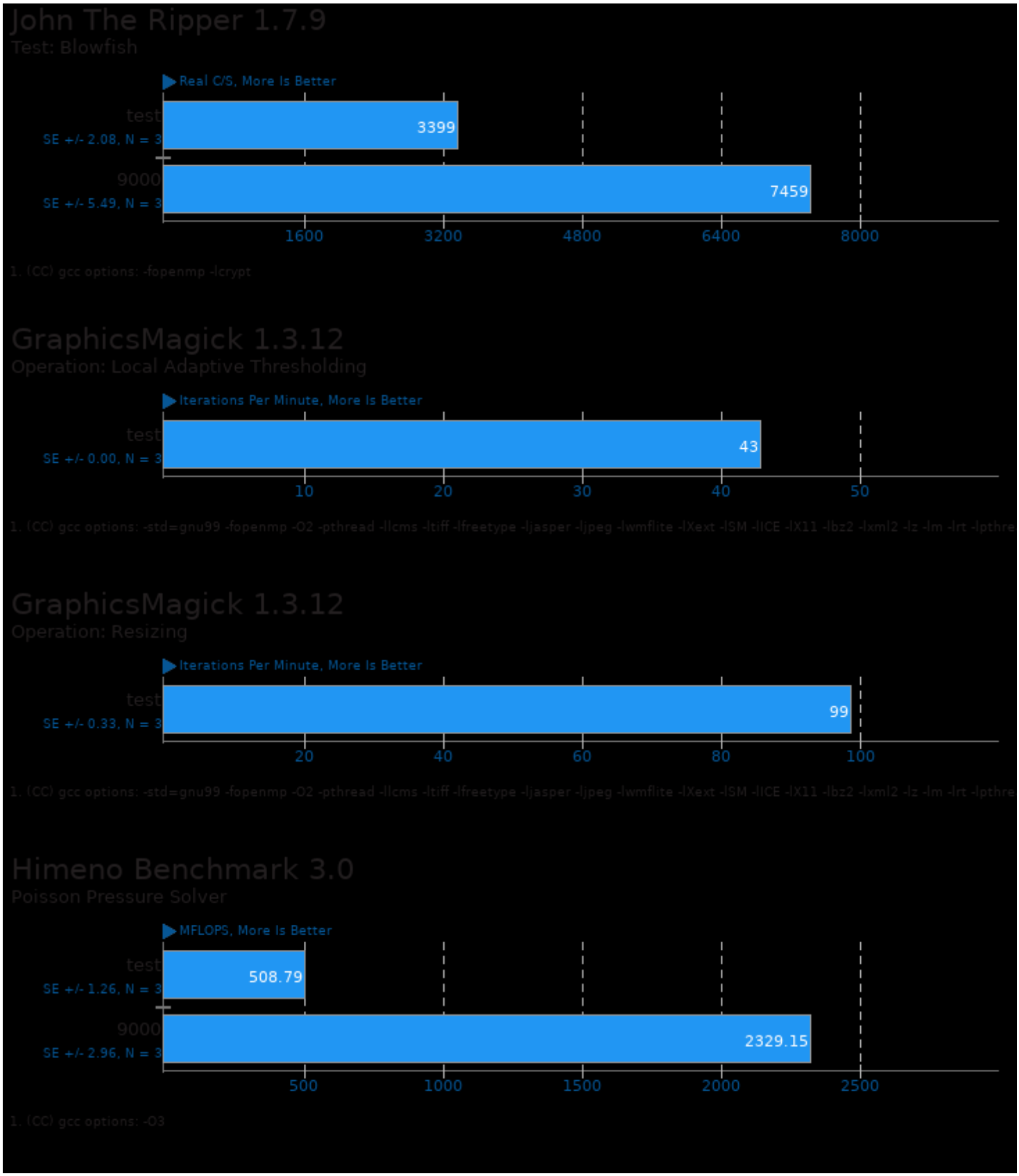
1. (CC) gcc options: -m64 -O3 -lssl -lcrypto -ldl

Gcrypt Library 1.4.4

CAMELLIA256-ECB Cipher

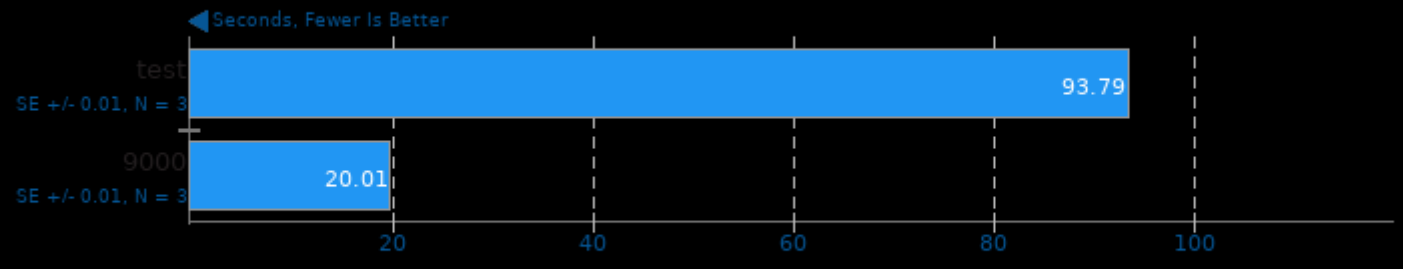


1. (CC) gcc options: -O2 -fvisibility=hidden


John The Ripper 1.7.9
Test: Blowfish
Real C/S, More Is Better
test
SE +/- 2.08, N = 3
3399
9000
SE +/- 5.49, N = 3
7459
1600
3200
4800
6400
8000
1. (CC) gcc options: -fopenmp -lcrypt
GraphicsMagick 1.3.12
Operation: Local Adaptive Thresholding
Iterations Per Minute, More Is Better
test
SE +/- 0.00, N = 3
43
10
20
30
40
50
1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -llcms -ltiff -lfreetype -ljasper -ljpeg -lwmflite -lXext -lSM -lICE -lX11 -lbz2 -lxml2 -lz -lm -lrt -lpthre
GraphicsMagick 1.3.12
Operation: Resizing
Iterations Per Minute, More Is Better
test
SE +/- 0.33, N = 3
99
20
40
60
80
100
1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -llcms -ltiff -lfreetype -ljasper -ljpeg -lwmflite -lXext -lSM -lICE -lX11 -lbz2 -lxml2 -lz -lm -lrt -lpthre
Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
test
SE +/- 1.26, N = 3
508.79
9000
SE +/- 2.96, N = 3
2329.15
500
1000
1500
2000
2500
1. (CC) gcc options: -O3

C-Ray 1.1

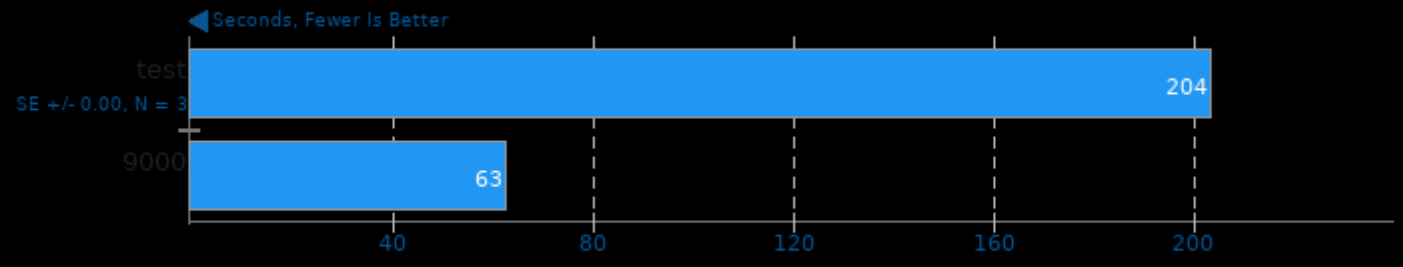
Total Time



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

Smallpt 1.0

Global Illumination Renderer; 100 Samples



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

Crafty 23.4

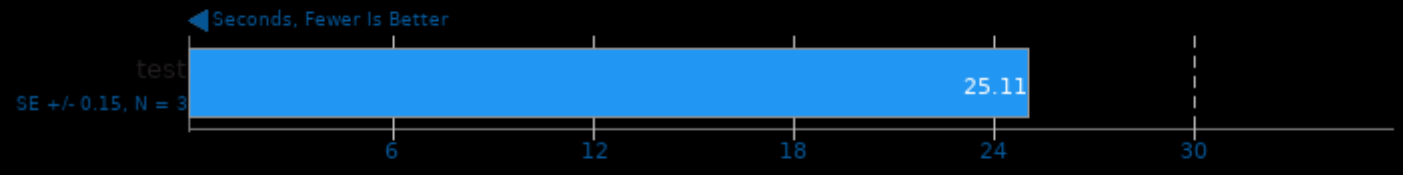
Elapsed Time



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

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

Minion 0.12

Benchmark: Quasigroup



1. (CXX) g++ options: -O3 -fomit-frame-pointer -rdynamic -lboost_iostreams-mt -lz -lbz2

Minion 0.12

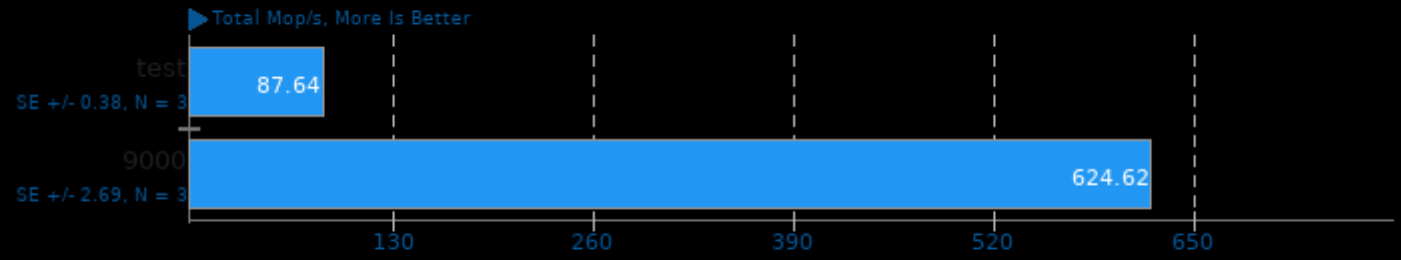
Benchmark: Solitaire



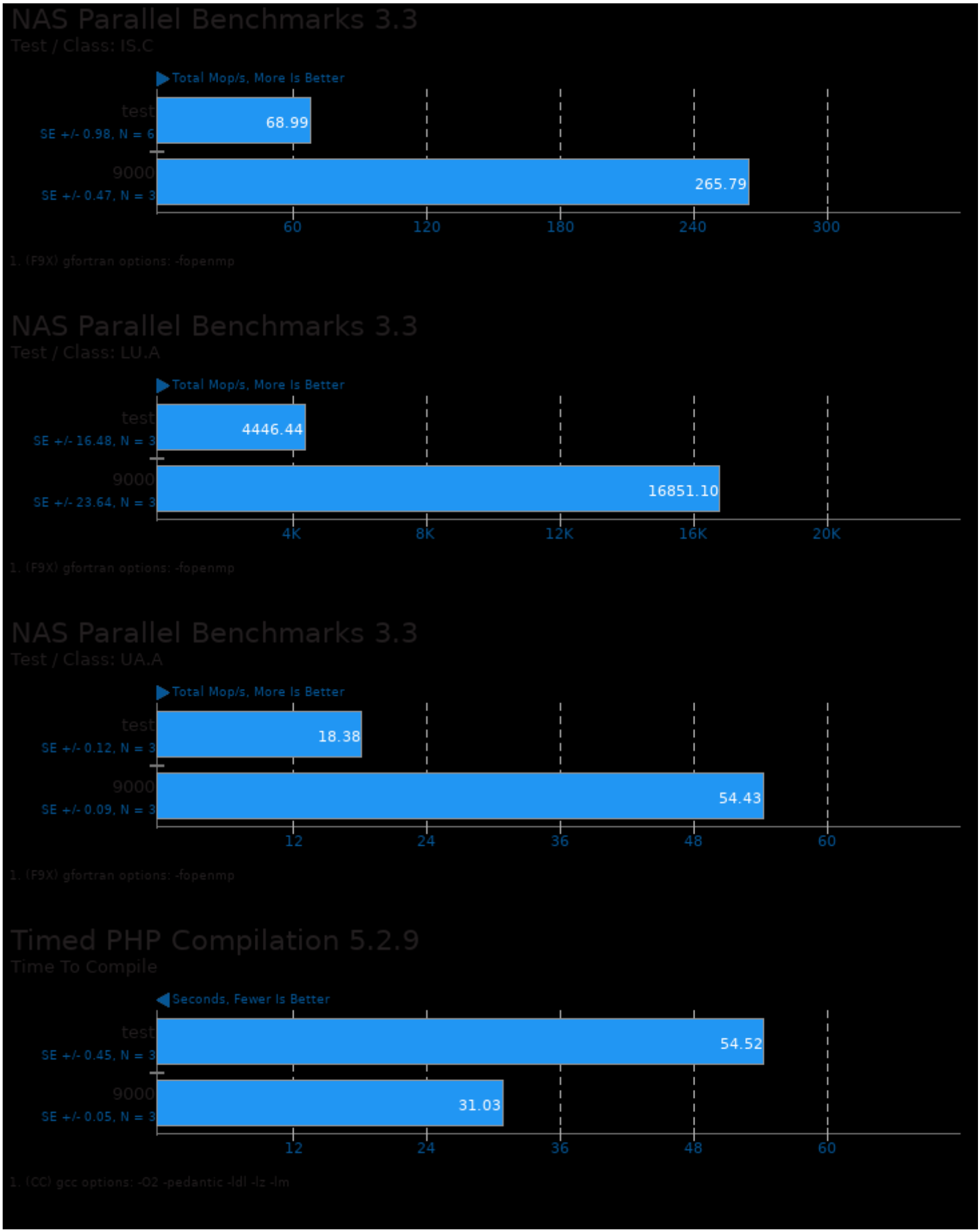
1. (CXX) g++ options: -O3 -fomit-frame-pointer -rdynamic -lboost_iostreams-mt -lz -lbz2

NAS Parallel Benchmarks 3.3

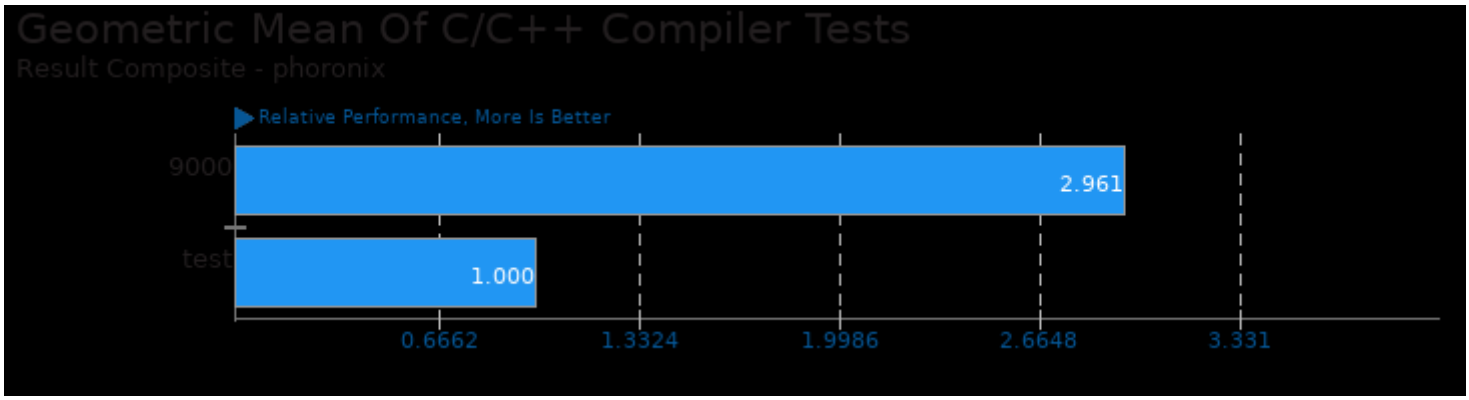
Test / Class: EP.B



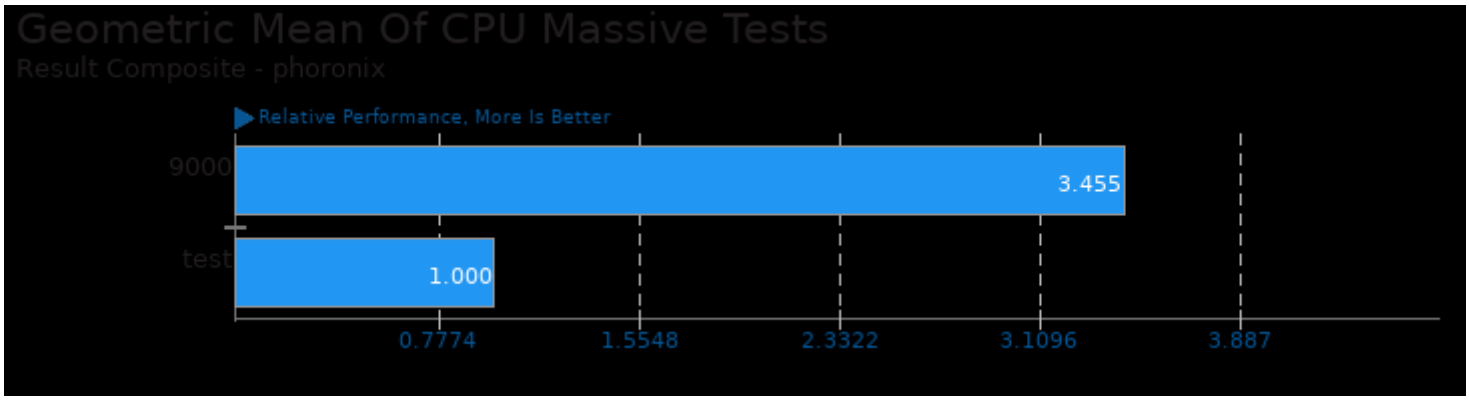
1. (F9X) gfortran options: -fopenmp


NAS Parallel Benchmarks 3.3
Test / Class: IS.C
Total Mop/s, More Is Better
test
SE +/- 0.98, N = 6
68.99
9000
SE +/- 0.47, N = 3
265.79
60
120
180
240
300
1. (F9X) gfortran options: -fopenmp
NAS Parallel Benchmarks 3.3
Test / Class: LU.A
Total Mop/s, More Is Better
test
SE +/- 16.48, N = 3
4446.44
9000
SE +/- 23.64, N = 3
16851.10
4K
8K
12K
16K
20K
1. (F9X) gfortran options: -fopenmp
NAS Parallel Benchmarks 3.3
Test / Class: UA.A
Total Mop/s, More Is Better
test
SE +/- 0.12, N = 3
18.38
9000
SE +/- 0.09, N = 3
54.43
12
24
36
48
60
1. (F9X) gfortran options: -fopenmp
Timed PHP Compilation 5.2.9
Time To Compile
Seconds, Fewer Is Better
test
SE +/- 0.45, N = 3
54.52
9000
SE +/- 0.05, N = 3
31.03
12
24
36
48
60
1. (CC) gcc options: -O2 -pedantic -ldl -lz -lm

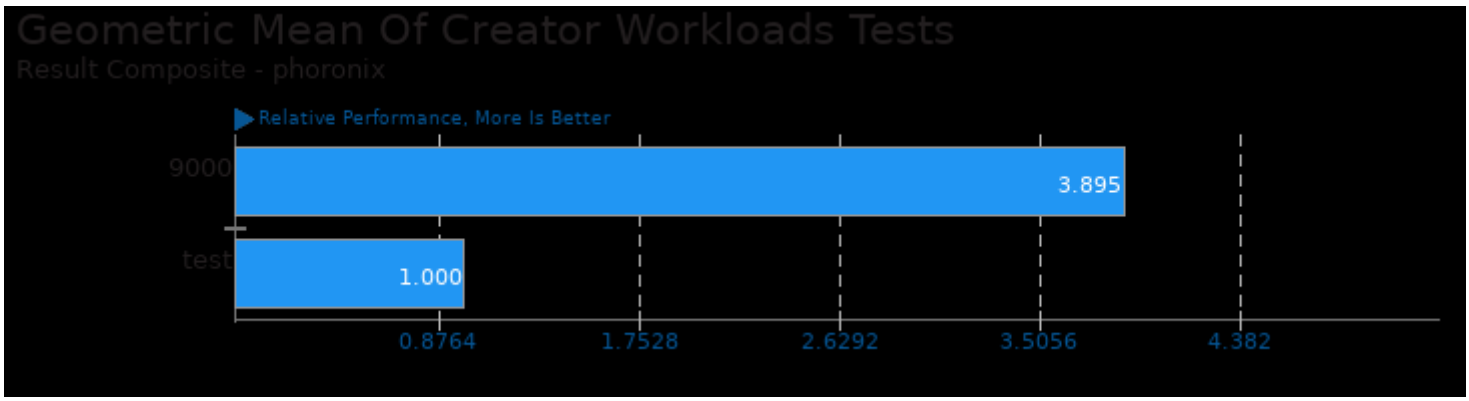
These geometric means are based upon test groupings / test suites for this result file.



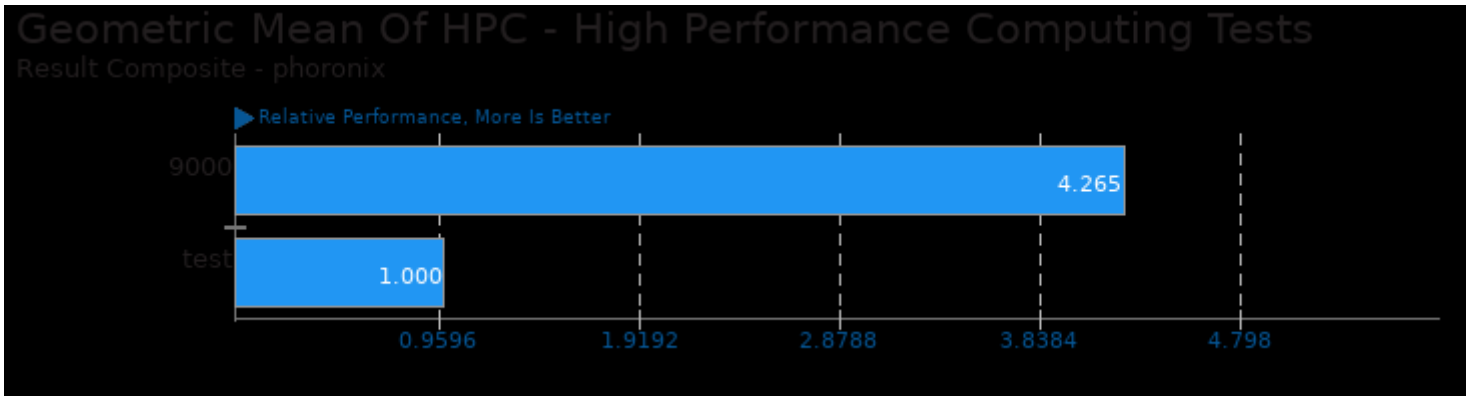
Geometric mean based upon tests: pts/mafft, pts/graphics-magick, pts/himeno, pts/hmmer, pts/build-php, pts/c-ray, pts/compress-7zip, pts/john-the-ripper, pts/x264 and pts/openssl



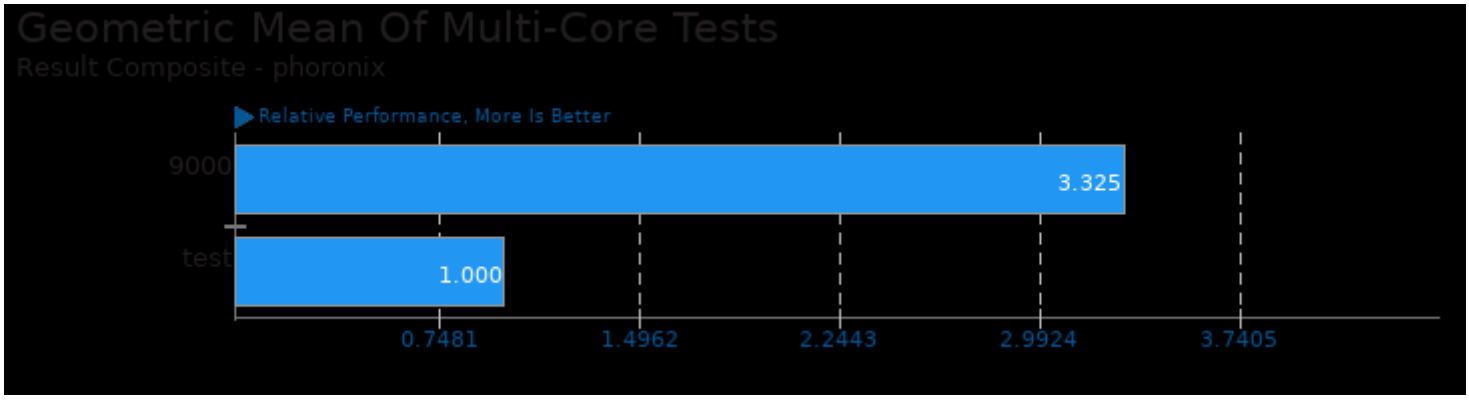
Geometric mean based upon tests: pts/build-php, pts/c-ray, pts/compress-7zip, pts/compress-pbzip2, pts/crafty, pts/x264, pts/graphics-magick, pts/himeno, pts/hmmer, pts/john-the-ripper, pts/openssl, pts/mafft, pts/minion and pts/npb



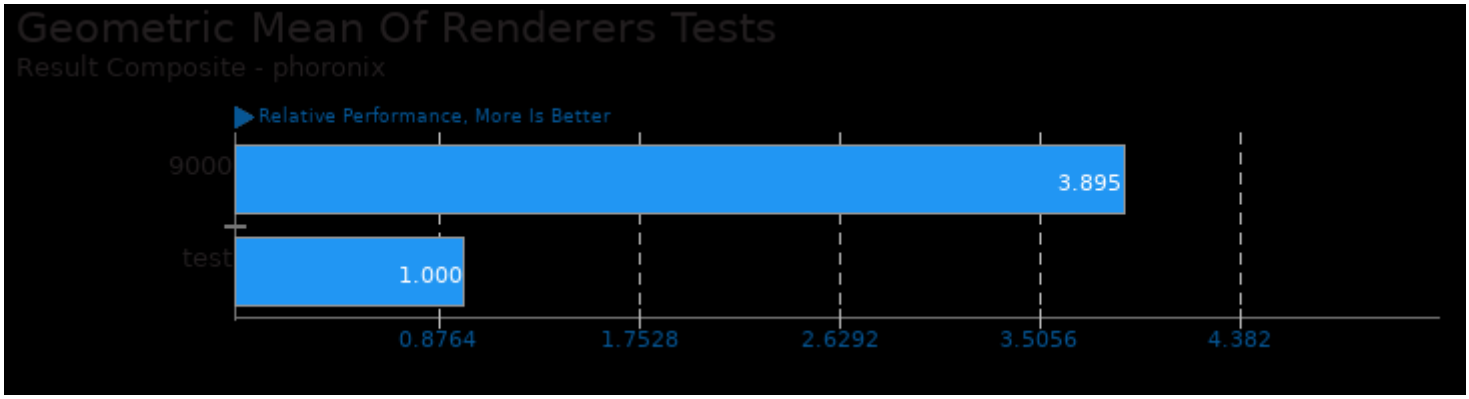
Geometric mean based upon tests: pts/c-ray, pts/smallpt, pts/x264 and pts/graphics-magick



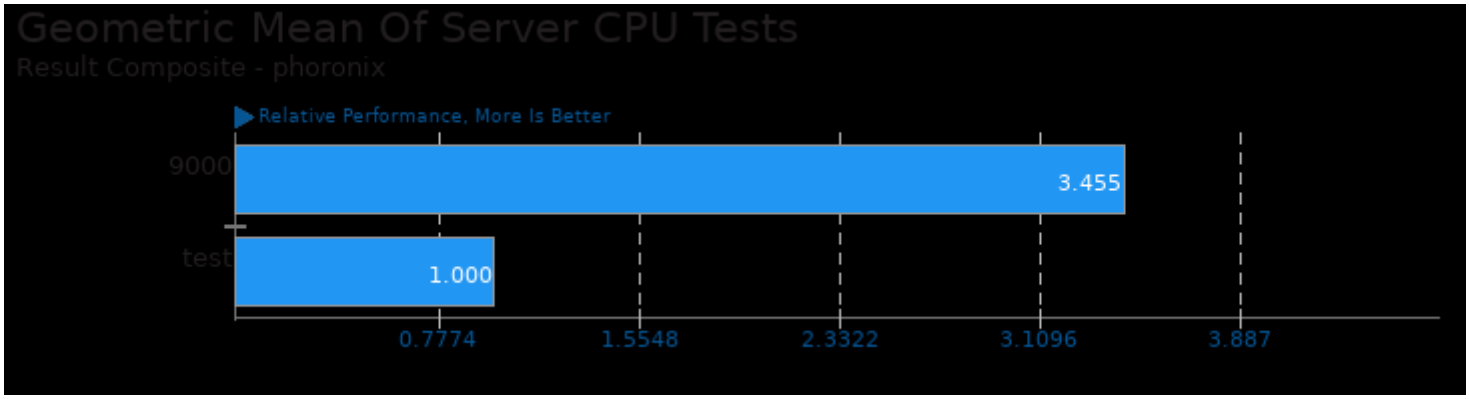
Geometric mean based upon tests: pts/npb, pts/himeno, pts/hmmer and pts/mafft



Geometric mean based upon tests: pts/c-ray, pts/x264, pts/npb, pts/john-the-ripper, pts/smallpt, pts/graphics-magick, pts/compress-7zip, pts/compress-pbzip2 and pts/build-php



Geometric mean based upon tests: pts/c-ray and pts/smallpt



Geometric mean based upon tests: pts/npb, pts/john-the-ripper, pts/x264, pts/himeno, pts/compress-7zip, pts/build-php, pts/c-ray and pts/openssl

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