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2 x AMD Opteron 6238 testing with a HP ProLiant DL385 G7 (A18 BIOS) and AMD ES1000 128MB on AlmaLinux 8.5 via the Phoronix Test Suite.

Automated Executive Summary

test had the most wins, coming in first place for 66% of the tests.

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

C-Ray (Total Time) at 6.875x

Smallpt (Global Illumination Renderer; 100 Samples) at 4.163x

7-Zip Compression (Compress Speed Test) at 3.651x

Crafty (Elapsed Time) at 2.301x

Timed HMMer Search (Pfam Database Search) at 1.264x

OpenSSL (RSA 4096-bit Performance) at 1x

NAS Parallel Benchmarks (Test / Class: EP.B) at 1x

Minion (Benchmark: Quasigroup) at 1x

Gcrypt Library (CAMELLIA256-ECB Cipher) at 1x

x264 (H.264 Video Encoding) at 1x.

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

almalinux

Processor: 2 x AMD Opteron 6238 (12 Cores / 24 Threads), Motherboard: HP ProLiant DL385 G7 (A18 BIOS), Chipset: AMD RD890 + SB7x0/SB8x0/SB9x0, Memory: 4 x 8 GB DDR3-1333MT/s, Disk: 1800GB LOGICAL VOLUME, Graphics: AMD ES1000 128MB, Network: 4 x Broadcom NetXtreme II BCM5709 + 2 x Broadcom NetXtreme BCM5720 PCIe

OS: AlmaLinux 8.5, Kernel: 4.18.0-348.el8.x86_64 (x86_64), File-System: xfs, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: always
 Processor Notes: CPU Microcode: 0x600063e

Security Notes: SELinux + itlb_multihit: Not affected + 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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

2 x AMD Opteron 6238

Processor: 2 x AMD Opteron 6238 (12 Cores / 24 Threads), Motherboard: HP ProLiant DL385 G7 (A18 BIOS), Chipset: AMD RD890 + SB7x0/SB8x0/SB9x0, Memory: 4 x 8 GB DDR3-1333MT/s, Disk: 1800GB LOGICAL VOLUME, Graphics: AMD ES1000 128MB, Network: 4 x Broadcom NetXtreme II BCM5709 + 2 x Broadcom NetXtreme BCM5720 PCIe

OS: AlmaLinux 8.5, Kernel: 4.18.0-348.el8.x86_64 (x86_64), Compiler: GCC 8.5.0 20210514, File-System: xfs, Screen Resolution: 1024x768

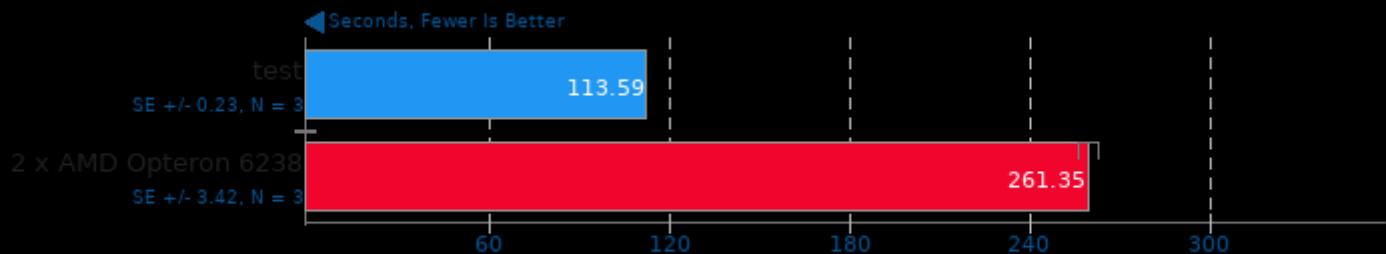
Kernel Notes: Transparent Huge Pages: always
 Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
 Processor Notes: CPU Microcode: 0x600063e
 Security Notes: SELinux + itlb_multihit: Not affected + 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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	test	almalinux	2 x AMD Opteron
Crafty - Elapsed Time (sec)	113.59		261.35
Normalized	100%		43.46%
Standard Deviation	0.4%		2.3%

NAS Parallel Benchmarks - IS.C (Mop/s)	68.99	28.97
Normalized	100%	41.99%
Standard Deviation	3.5%	9.5%
Timed PHP Compilation - Time To Compile (sec)	54.52	68.729
Normalized	100%	79.33%
Standard Deviation	1.4%	11.1%
John The Ripper - Blowfish (Real C/S)	3399	8410
Normalized	40.42%	100%
Standard Deviation	0.1%	12%
Himeno Benchmark - P.P.S (MFLOPS)	508.79	253.910128
Normalized	100%	49.9%
Standard Deviation	0.4%	6.3%
7-Zip Compression - C.S.T (MIPS)	8623	31480
Normalized	27.39%	100%
Standard Deviation	0.3%	2.2%
Timed MAFFT Alignment - M.S.A (sec)	13.07	7.942
Normalized	60.77%	100%
Standard Deviation	0%	10.3%
Smallpt - G.I.R.1.S (sec)	204	49
Normalized	24.02%	100%
Standard Deviation	0%	
Timed HMMer Search - P.D.S (sec)	25.11	19.870
Normalized	79.13%	100%
Standard Deviation	1%	0.8%
C-Ray - Total Time (sec)	93.79	13.642
Normalized	14.55%	100%
Standard Deviation	0%	0.2%
OpenSSL - R.4.b.P (Signs/sec)	56.65	
Standard Deviation	0.2%	
NAS Parallel Benchmarks - EP.B (Mop/s)	87.64	
Standard Deviation	0.8%	
Minion - Quasigroup (sec)	233.02	
Standard Deviation	1.3%	
Gcrypt Library - C.E.C (us)	3200	
Standard Deviation	0.3%	
x264 - H.2.V.E (FPS)	63.26	
Standard Deviation	0.3%	
NAS Parallel Benchmarks - LU.A (Mop/s)	4446	
Standard Deviation	0.6%	
Minion - Solitaire (sec)	389.58	
Standard Deviation	35.3%	
NAS Parallel Benchmarks - UA.A (Mop/s)	18.38	
Standard Deviation	1.1%	
GraphicsMagick - Resizing (Iterations/min)	99	
Standard Deviation	0.6%	
GraphicsMagick - L.A.T (Iterations/min)	43	
Standard Deviation	0%	
Parallel BZIP2 Compression - 2.F.C (sec)	17.14	
Standard Deviation	0.2%	

Crafty 23.4

Elapsed Time



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

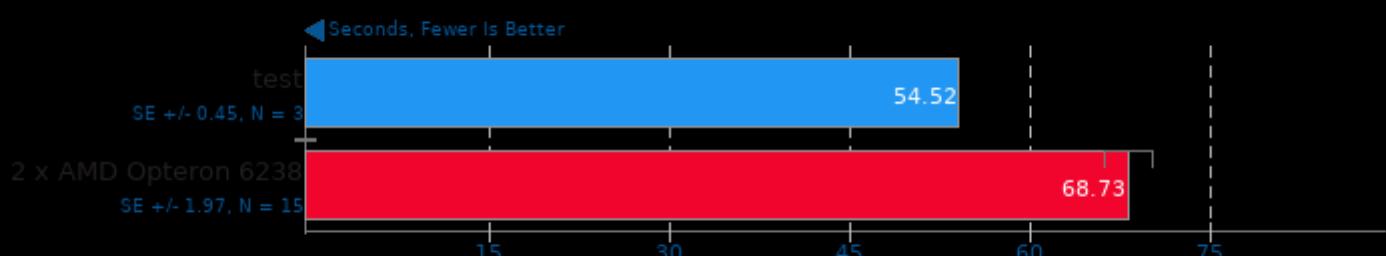
NAS Parallel Benchmarks 3.3

Test / Class: IS.C



Timed PHP Compilation 5.2.9

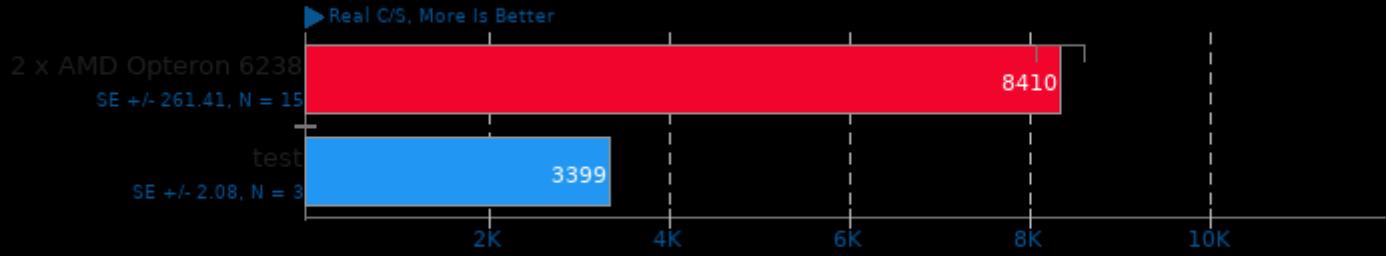
Time To Compile



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

John The Ripper 1.7.9

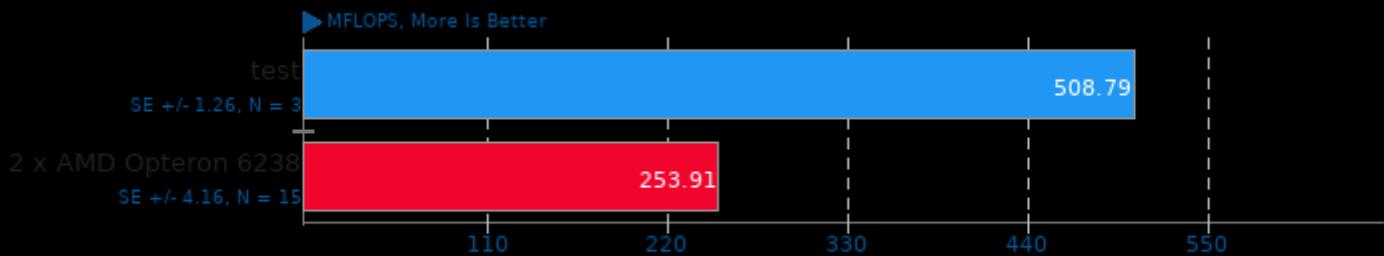
Test: Blowfish



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

Himeno Benchmark 3.0

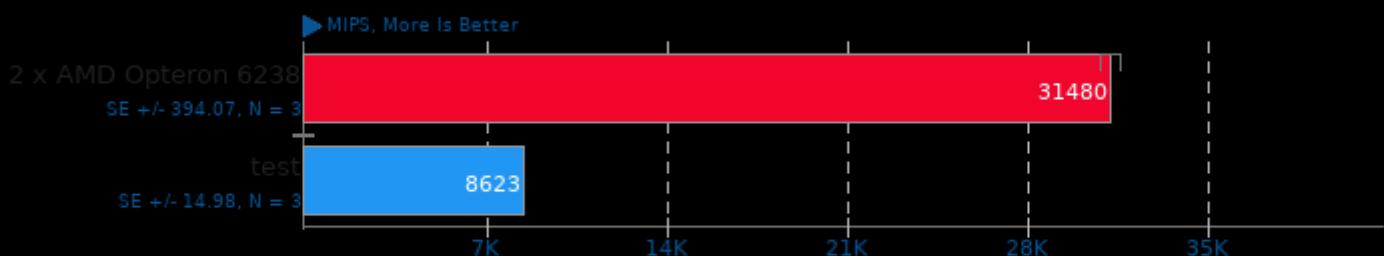
Poisson Pressure Solver



1. (CC) gcc options: -O3

7-Zip Compression 9.20.1

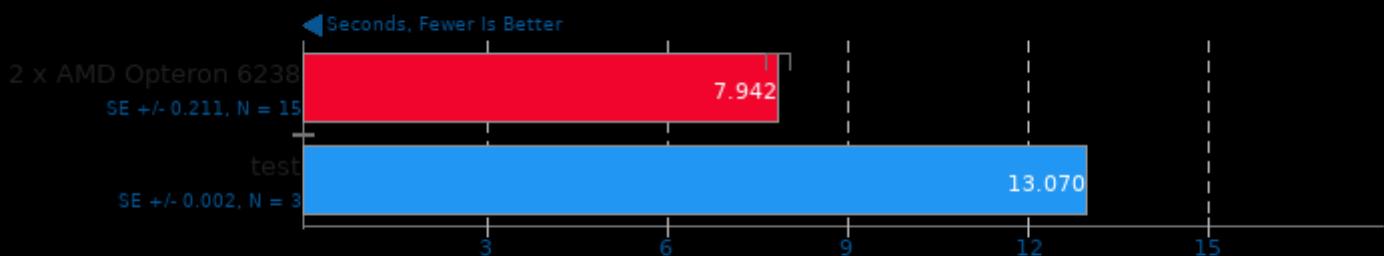
Compress Speed Test



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

Timed MAFFT Alignment 6.864

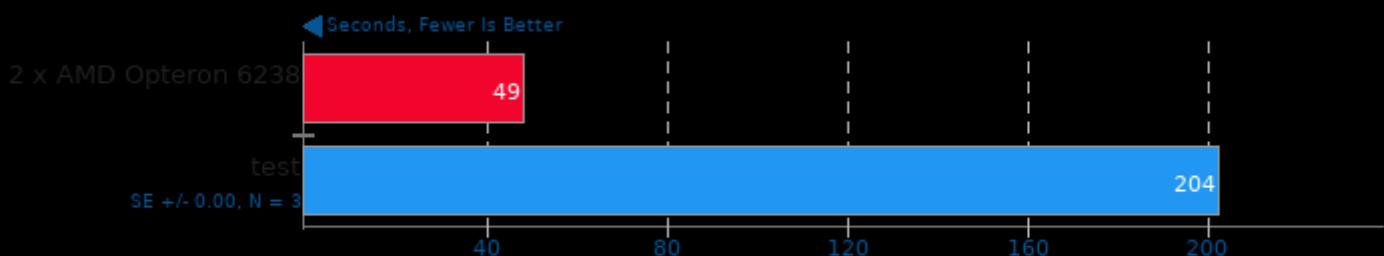
Multiple Sequence Alignment



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

Smallpt 1.0

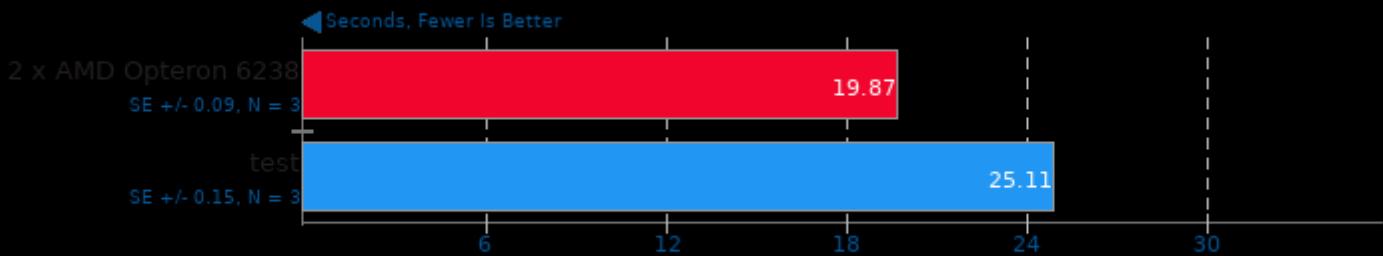
Global Illumination Renderer; 100 Samples



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

Timed HMMer Search 2.3.2

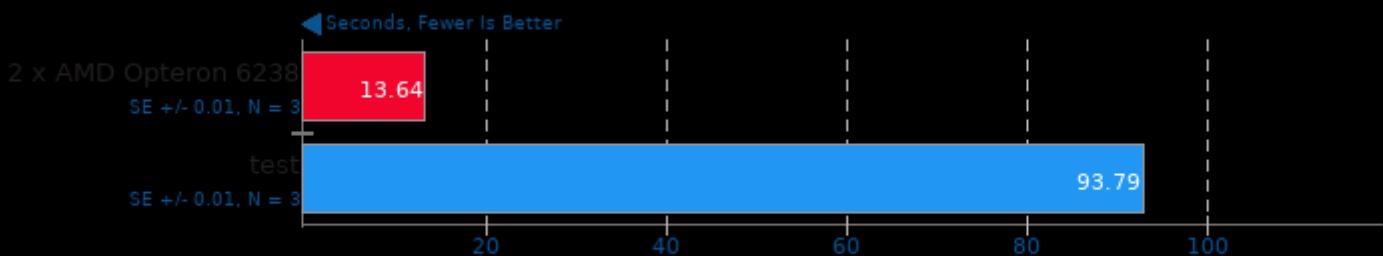
Pfam Database Search



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

C-Ray 1.1

Total Time



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

OpenSSL 1.0.0e

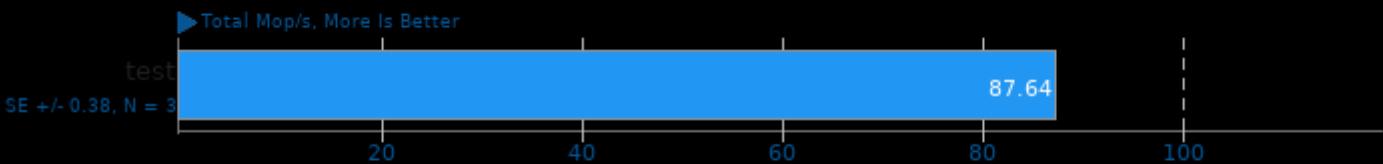
RSA 4096-bit Performance



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

NAS Parallel Benchmarks 3.3

Test / Class: EP.B



1. (F9X) gfortran options: -fopenmp

Minion 0.12

Benchmark: Quasigroup



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

Gcrypt Library 1.4.4

CAMELLIA256-ECB Cipher



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

x264 2011-12-06

H.264 Video Encoding



NAS Parallel Benchmarks 3.3

Test / Class: LU.A



1. (F9X) gfortran options: -fopenmp

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: UA.A



1. (F9X) gfortran options: -fopenmp

GraphicsMagick 1.3.12

Operation: Resizing



1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lcms -ltiff -lfreetype -ljasper -jpeg -lwmflite -lXext -lSM -lICE -lX11 -lbz2 -lxml2 -lz -lm -lrt -lpthread

GraphicsMagick 1.3.12

Operation: Local Adaptive Thresholding



1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lcms -ltiff -lfreetype -ljasper -jpeg -lwmflite -lXext -lSM -lICE -lX11 -lbz2 -lxml2 -lz -lm -lrt -lpthread

Parallel BZIP2 Compression 1.0.5

256MB File Compression



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

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