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i7-2600

Intel Core i7-2600 testing with a ASRock Z68 Extreme4 Gen3 and AMD Radeon HD 7970 3072MB on Ubuntu 12.04 via the Phoronix Test Suite.

Test Systems:

AMD Radeon HD 7970 - Intel Core i7-2600

Processor: Intel Core i7-2600 @ 3.40GHz (8 Cores), Motherboard: ASRock Z68 Extreme4 Gen3, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 16384MB, Disk: 120GB Corsair Force 3 + 1000GB Western Digital WD10EARS-00M + 500GB Western Digital WD5000AADS-0 + 500GB Hitachi HTS72505, Graphics: AMD Radeon HD 7970 3072MB (1050/1500MHz), Audio: Realtek ALC892, Monitor: E2350, Network: Broadcom NetLink BCM57781 Gigabit PCIe

OS: Ubuntu 12.04, Kernel: 3.5.0-18-generic (x86_64), Desktop: Unity 5.18.0, Display Server: X Server 1.12.3, Display Driver: fglrx 9.1.11 Catalyst 12.9, OpenGL: 4.2.12002, Compiler: GCC 4.6, File-System: ext4, Screen Resolution: 1920x1080

i7-2600

Processor Notes: Scaling Governor: ondemand
System Notes: Compiz was running on this system.

	AMD Radeon HD 7970 - Intel Core i7-2600
Apache Benchmark - S.W.P.S (Reqs/sec)	22313
Standard Deviation	1.2%
PostgreSQL pgbench - T.B.T.P.S (TPS)	4888
Standard Deviation	1.1%
OpenSSL - R.4.b.P (Signs/sec)	116.83
Standard Deviation	0.6%
Tachyon - Total Time (sec)	14.65
Standard Deviation	0.1%
POV-Ray - Total Time (sec)	680
FFmpeg - H.2.H.T.N.D (sec)	17.74
Standard Deviation	0.9%
LAME MP3 Encoding - WAV To MP3 (sec)	14.04
Standard Deviation	0.1%
FLAC Audio Encoding - WAV To FLAC (sec)	6.10
Standard Deviation	0.2%
Crafty - Elapsed Time (sec)	77.95
Standard Deviation	0.1%
Smallpt - G.I.R.1.S (sec)	100
Standard Deviation	0.6%
Parallel BZIP2 Compression - 2.F.C (sec)	8.36
Standard Deviation	0.6%
C-Ray - Total Time (sec)	49.93
Standard Deviation	0.2%
7-Zip Compression - C.S.T (MIPS)	18477
Standard Deviation	0.5%
Himeno Benchmark - P.P.S (MFLOPS)	1597
Standard Deviation	0.1%
GraphicsMagick - Resizing (Iterations/min)	155
Standard Deviation	0%
GraphicsMagick - Sharpen (Iterations/min)	79
Standard Deviation	0%
GraphicsMagick - L.A.T (Iterations/min)	114
Standard Deviation	0%
GraphicsMagick - HWB Color Space (Iterations/min)	179
Standard Deviation	0%
x264 - H.2.V.E (FPS)	137.16
Standard Deviation	0.3%
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)	130.92
Standard Deviation	0.3%
John The Ripper - Blowfish (Real C/S)	4688
Standard Deviation	0.6%
John The Ripper - Traditional DES (Real C/S)	18404333
Standard Deviation	1.4%
Timed MAFFT Alignment - M.S.A (sec)	6.10

i7-2600

Standard Deviation	5.1%
NAS Parallel Benchmarks - MG.B (Mop/s)	3947
Standard Deviation	0.5%
NAS Parallel Benchmarks - LU.A (Mop/s)	8058
Standard Deviation	0.6%
NAS Parallel Benchmarks - EP.B (Mop/s)	245.16
Standard Deviation	1.6%
Stream - Add (MB/s)	15121
Standard Deviation	0.2%
Stream - Triad (MB/s)	15501
Standard Deviation	0.1%
Stream - Scale (MB/s)	14030
Standard Deviation	0.1%
Stream - Copy (MB/s)	14384
Standard Deviation	0.1%
World of Padman - 1920 x 1080 (FPS)	60
Standard Deviation	0%

Apache Benchmark 2.4.3

Static Web Page Serving



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

PostgreSQL pgbench 8.4.11

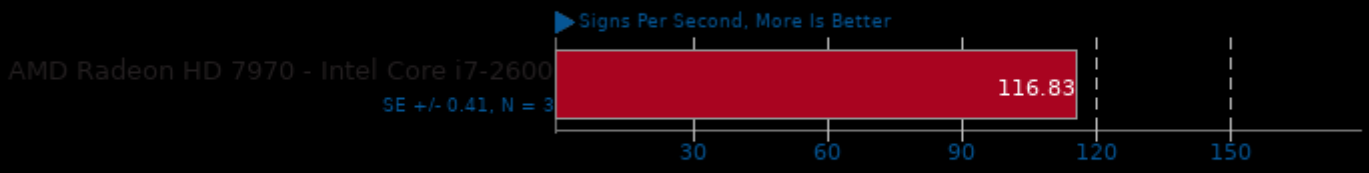
TPC-B Transactions Per Second



1. (CC) gcc options: -O2 -fno-strict-aliasing -fwrapv -lpgport -lpq -lcrypt -ldl -lm

OpenSSL 1.0.1c

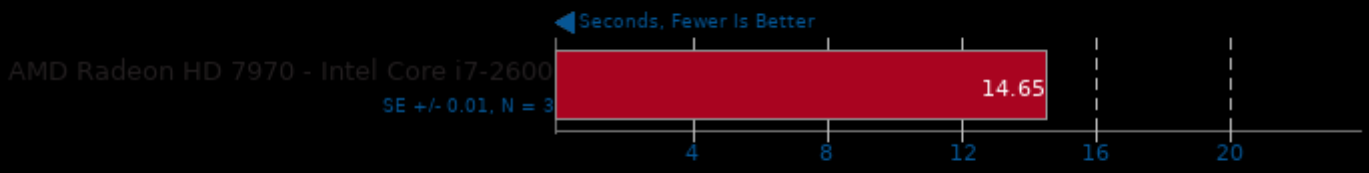
RSA 4096-bit Performance



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

Tachyon 0.98.9

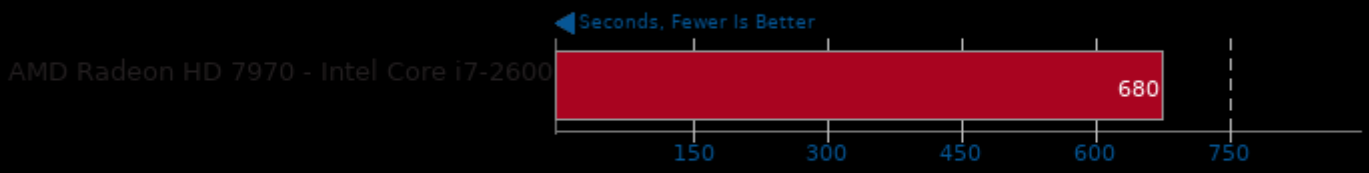
Total Time



1. (CC) gcc options: -m32 -O3 -fomit-frame-pointer -ffast-math -ltachyon -lm -lpthread

POV-Ray 3.6.1

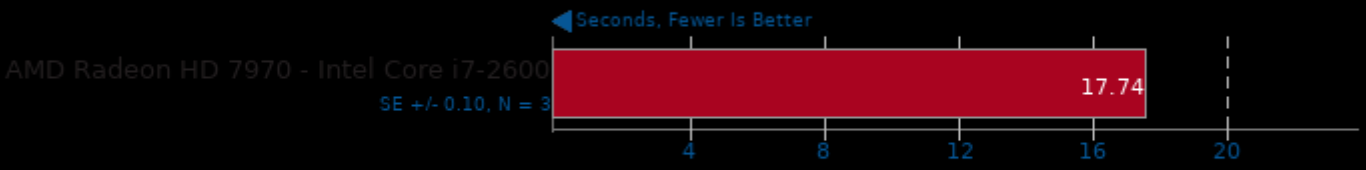
Total Time



1. (CXX) g++ options: -pipe -O3 -msse -mfpmath=sse -msse2 -march=k8 -mtune=k8 -malign-double -ltiff -ljpeg -lz -lSM -lICE -lX11 -lm

FFmpeg 1.1

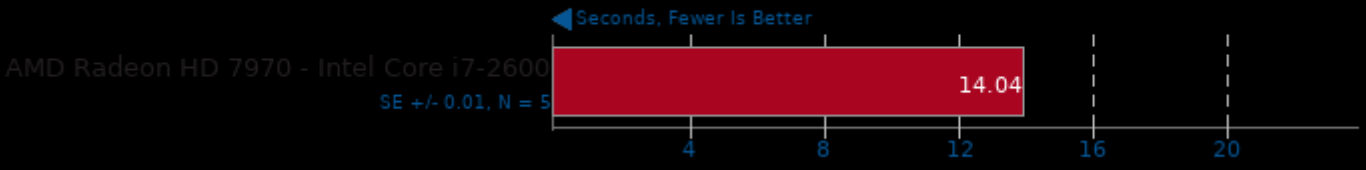
H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -ldl -lasound -lSDL -lm -pthread -lbz2 -lrt

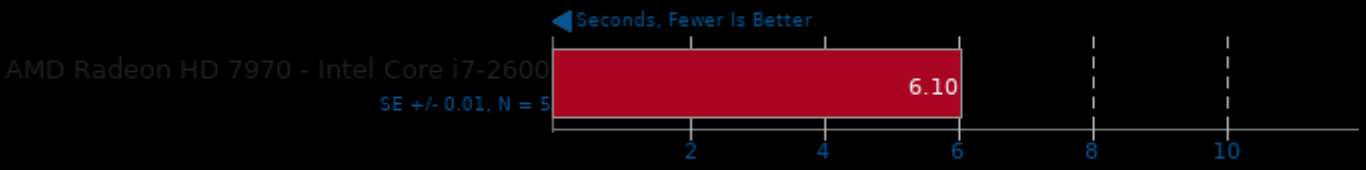
LAME MP3 Encoding 3.99.3

WAV To MP3



FLAC Audio Encoding 1.2.1

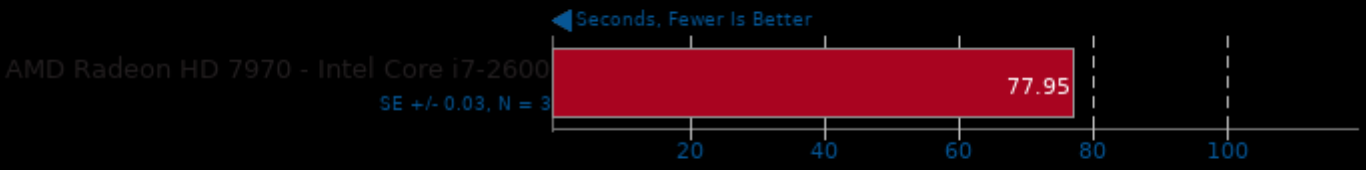
WAV To FLAC



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

Crafty 23.4

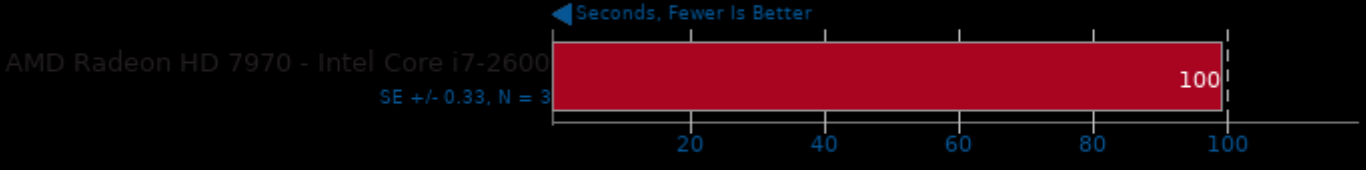
Elapsed Time



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

Smallpt 1.0

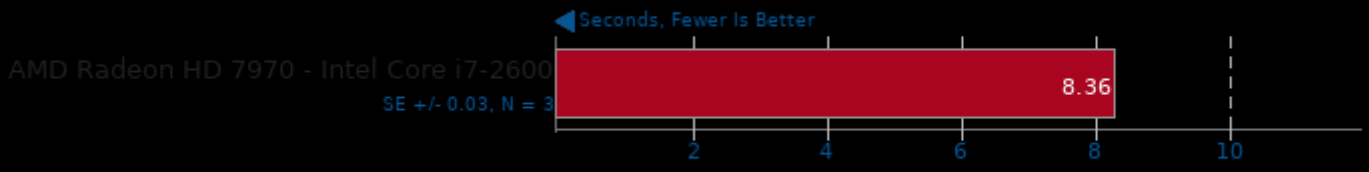
Global Illumination Renderer; 100 Samples



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

Parallel BZIP2 Compression 1.1.6

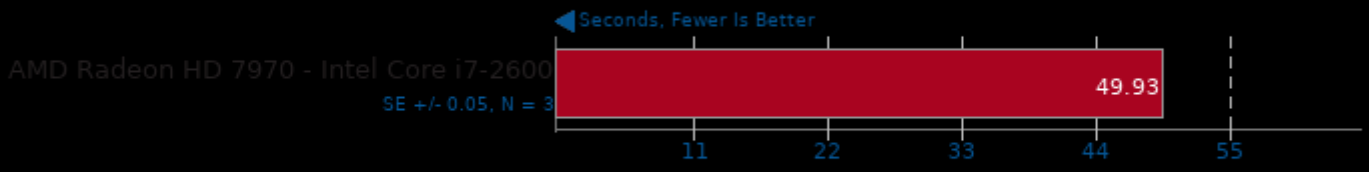
256MB File Compression



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

C-Ray 1.1

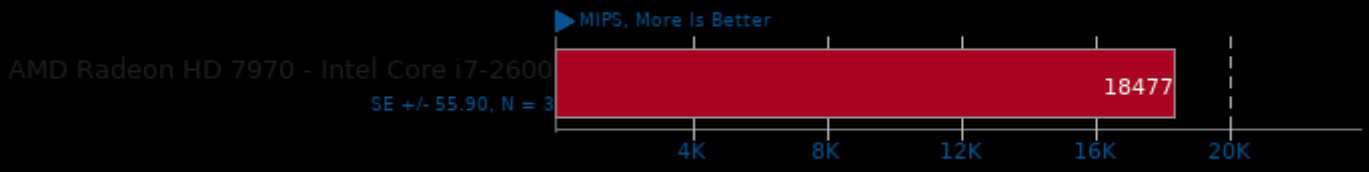
Total Time



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

7-Zip Compression 9.20.1

Compress Speed Test



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

Himeno Benchmark 3.0

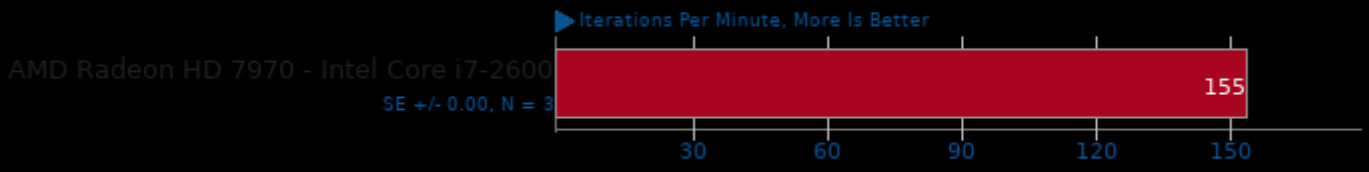
Poisson Pressure Solver



1. (CC) gcc options: -O3

GraphicsMagick 1.3.16

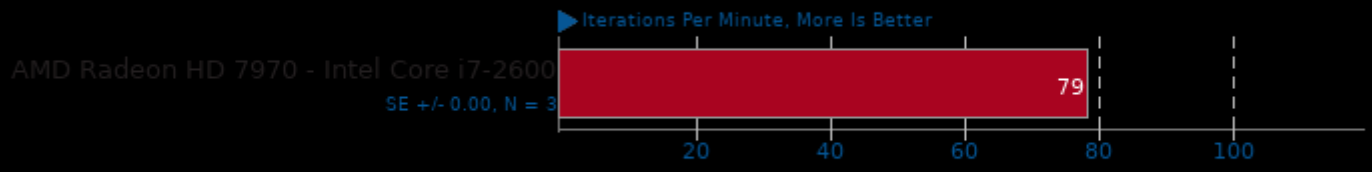
Resizing



1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -ljpeg -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.16

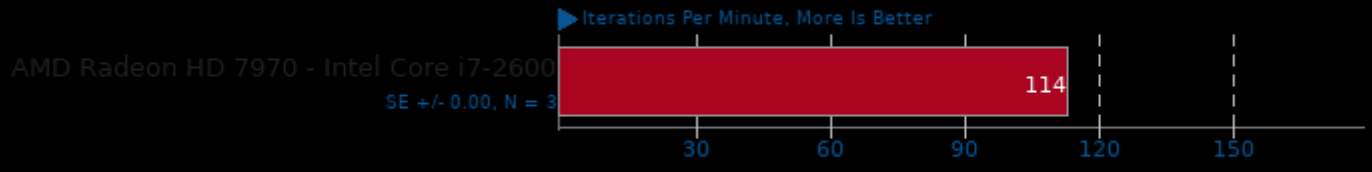
Sharpen



1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -ljpeg -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.16

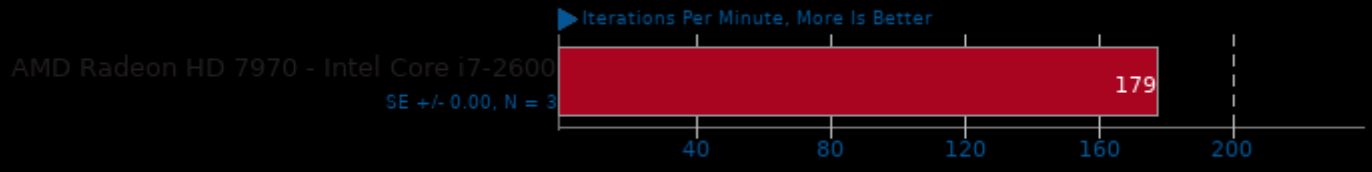
Local Adaptive Thresholding



1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -ljpeg -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.16

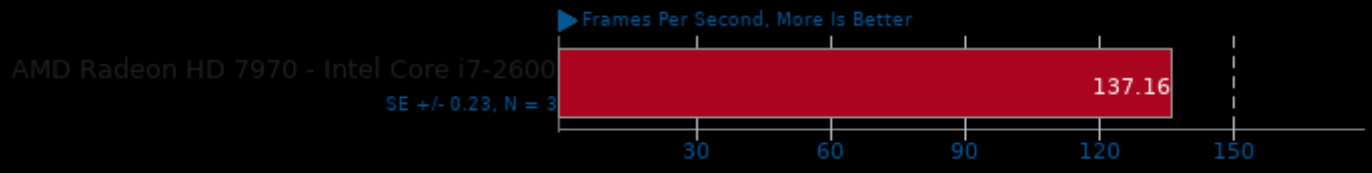
HWB Color Space



1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -ljpeg -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

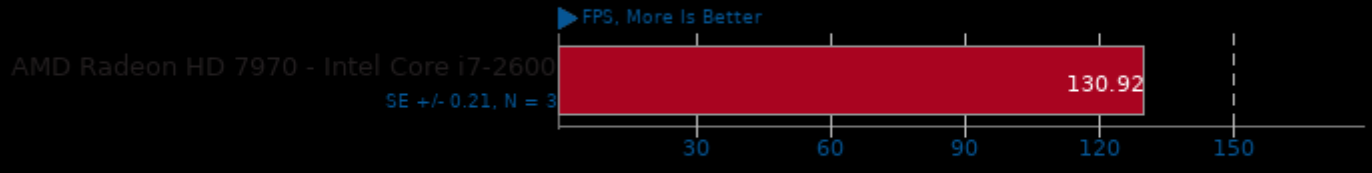
x264 2012-10-03

H.264 Video Encoding



TTSIOD 3D Renderer 2.2w

Phong Rendering With Soft-Shadow Mapping



1. (CXX) g++ options: -O3 -fomit-frame-pointer -ffast-math -mtune=native -flto -msse -mrecip -mfpmath=sse -msse2 -mssse3 -lSDL -lstdc++

John The Ripper 1.7.9-jumbo-7

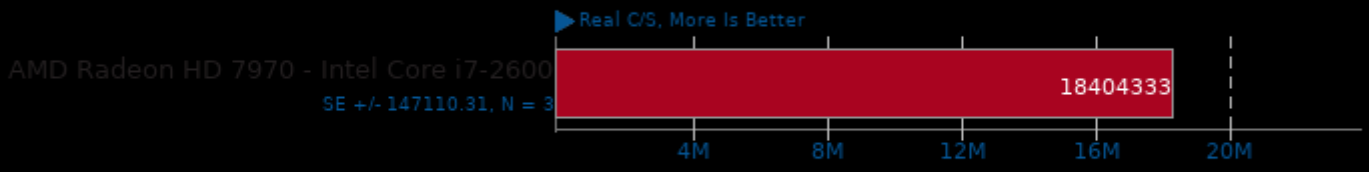
Blowfish



1. (CC) gcc options: -lssl -lcrypto -lm -lz -fopenmp -lcrypt -ldl

John The Ripper 1.7.9-jumbo-7

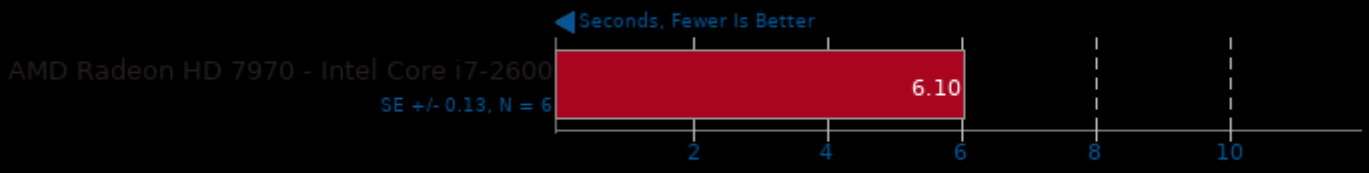
Traditional DES



1. (CC) gcc options: -lssl -lcrypto -lm -lz -fopenmp -lcrypt -ldl

Timed MAFFT Alignment 6.864

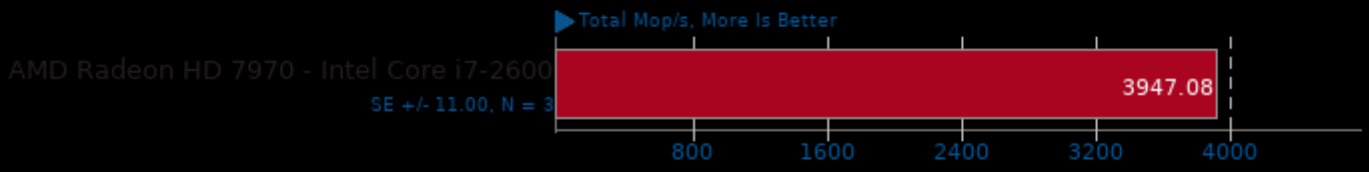
Multiple Sequence Alignment



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

NAS Parallel Benchmarks 3.3

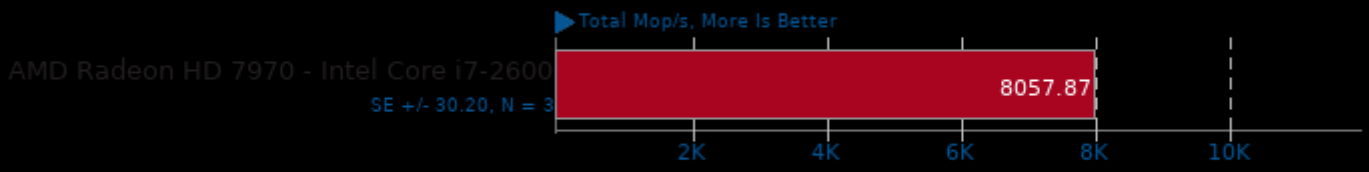
Test / Class: MG.B



1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm

NAS Parallel Benchmarks 3.3

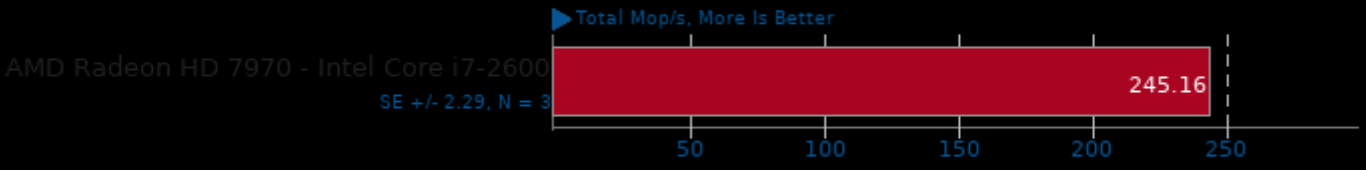
Test / Class: LU.A



1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm

NAS Parallel Benchmarks 3.3

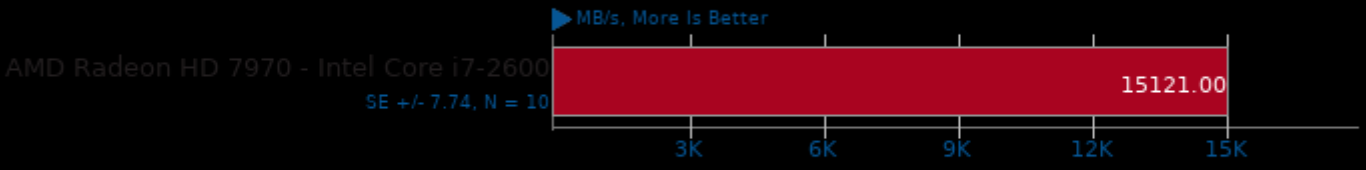
Test / Class: EP.B



1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm

Stream 2009-04-11

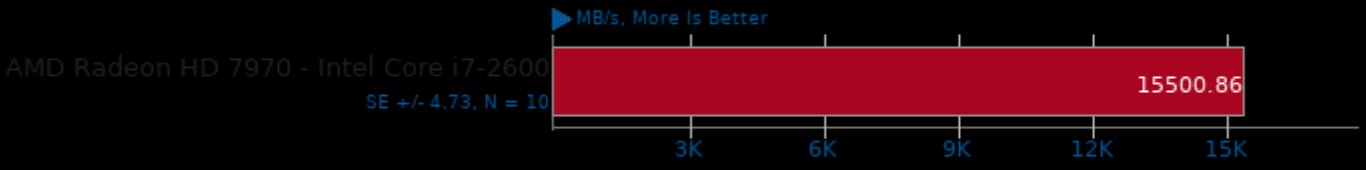
Type: Add



1. (CC) gcc options: -O2 -fopenmp

Stream 2009-04-11

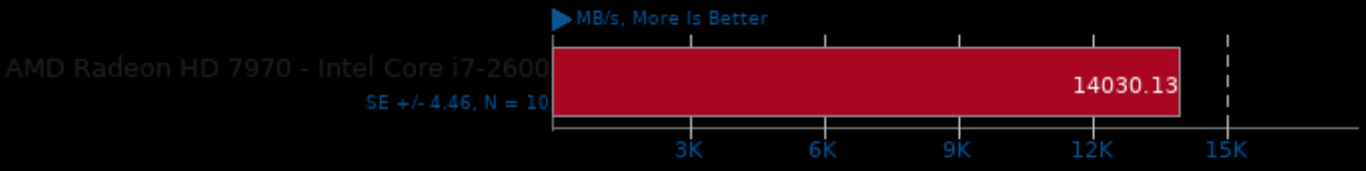
Type: Triad



1. (CC) gcc options: -O2 -fopenmp

Stream 2009-04-11

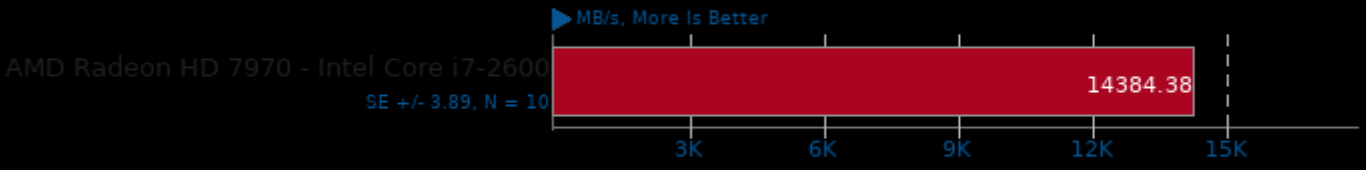
Type: Scale



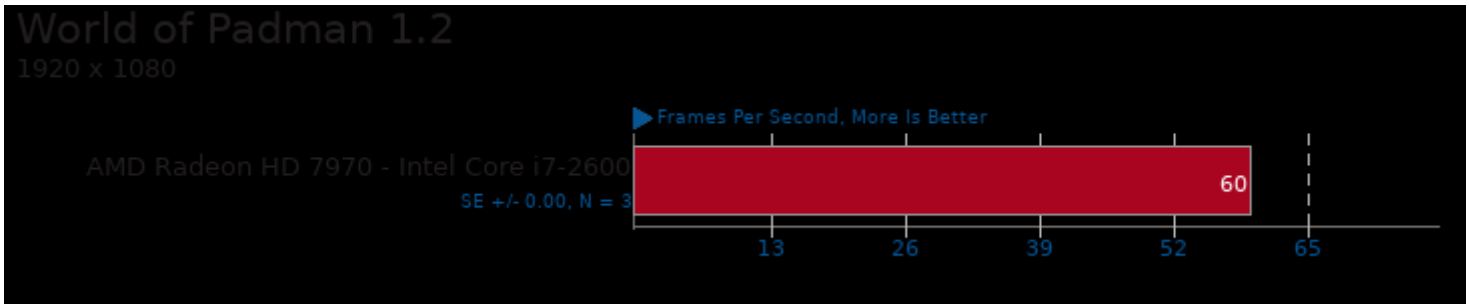
1. (CC) gcc options: -O2 -fopenmp

Stream 2009-04-11

Type: Copy



1. (CC) gcc options: -O2 -fopenmp



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