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2018-04-05-1439

Intel Xeon D-1521 testing with a GIGABYTE MB10-DATTO-O7 v01234567 and ASPEED ASPEED Family on Ubuntu 16.04 via the Phoronix Test Suite.

Test Systems:

KINGSTON SUV400S - 16384 MB DDR4-2133MHz Kingston

Processor: Intel Xeon D-1521 @ 2.70GHz (8 Cores), Motherboard: GIGABYTE MB10-DATTO-O7 v01234567, Chipset: Intel Xeon E7 v4/Xeon, Memory: 2 x 16384 MB DDR4-2133MHz Kingston, Disk: 120GB KINGSTON SUV400S + 2 x 500GB Western Digital WD5000AZLX-0, Graphics: ASPEED ASPEED Family, Network: Intel Connection X552/X557-AT

OS: Ubuntu 16.04, Kernel: 4.4.0-112-generic (x86_64), Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1024x768

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

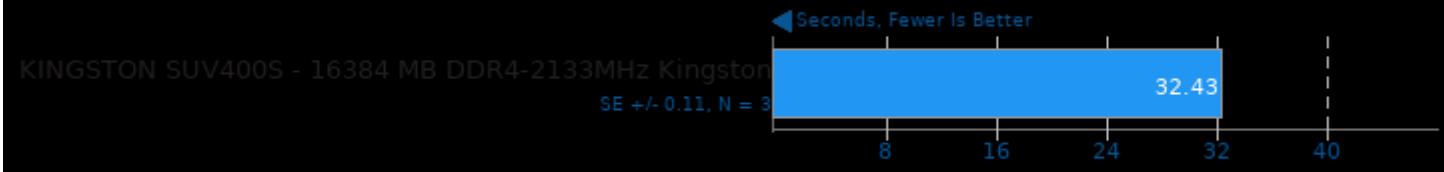
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--enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: DEADLINE / data=ordered,errors=remount-ro,noatime,rw,stripe=2
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: DEADLINE.

	KINGSTON SUV400S - 16384 MB DDR4-2133MHz Kingston
C-Ray - Total Time (sec)	32.43
Standard Deviation	0.6%
Crafty - Elapsed Time (Nodes/s)	5135266
Standard Deviation	0.9%
Himeno Benchmark - P.P.S (MFLOPS)	1476
Standard Deviation	0.3%
LAME MP3 Encoding - WAV To MP3 (sec)	45.60
Standard Deviation	1.4%
LZMA Compression - 2.F.C (sec)	376.50
Standard Deviation	1.8%
OpenSSL - R.4.b.P (Signs/sec)	772.60
Standard Deviation	1%
Parallel BZIP2 Compression - 2.F.C (sec)	13.70
Standard Deviation	0.7%
PHPBench - P.B.S (Score)	324451
Standard Deviation	0.4%
PostMark - D.T.P (TPS)	4545
Standard Deviation	0%
Stream - Copy (MB/s)	25833
Standard Deviation	0.1%
Stream - Scale (MB/s)	17088
Standard Deviation	0.7%
Stream - Triad (MB/s)	18068
Standard Deviation	2.6%
Stream - Add (MB/s)	18277
Standard Deviation	3.8%
Timed HMMer Search - P.D.S (sec)	16.01
Standard Deviation	0.9%
Timed MAFFT Alignment - M.S.A (sec)	6.09
Standard Deviation	1.2%

C-Ray 1.1

Total Time



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

Crafty 25.2

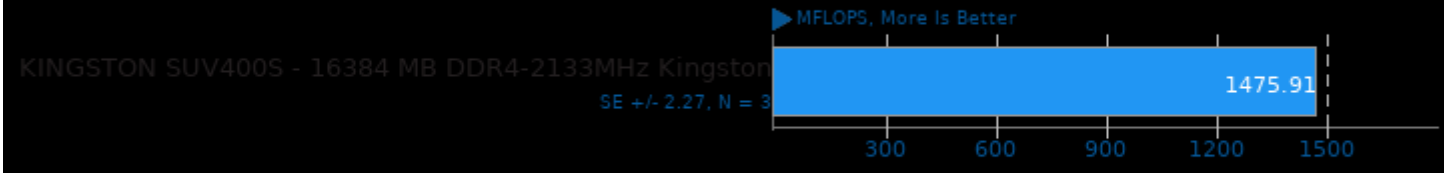
Elapsed Time



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

Himeno Benchmark 3.0

Poisson Pressure Solver



1. (CC) gcc options: -O3 -mavx2

LAME MP3 Encoding 3.100

WAV To MP3



1. (CC) gcc options: -lm

LZMA Compression

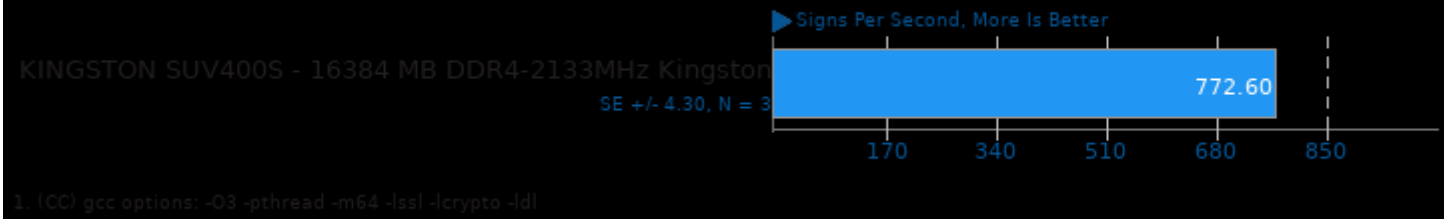
256MB File Compression



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

OpenSSL 1.1.0f

RSA 4096-bit Performance



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

Parallel BZIP2 Compression 1.1.12

256MB File Compression



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

PHPBench 0.8.1

PHP Benchmark Suite



PostMark 1.51

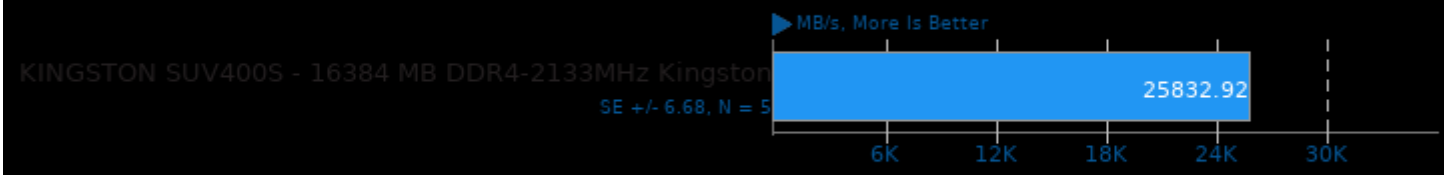
Disk Transaction Performance



1. (CC) gcc options: -O3

Stream 2013-01-17

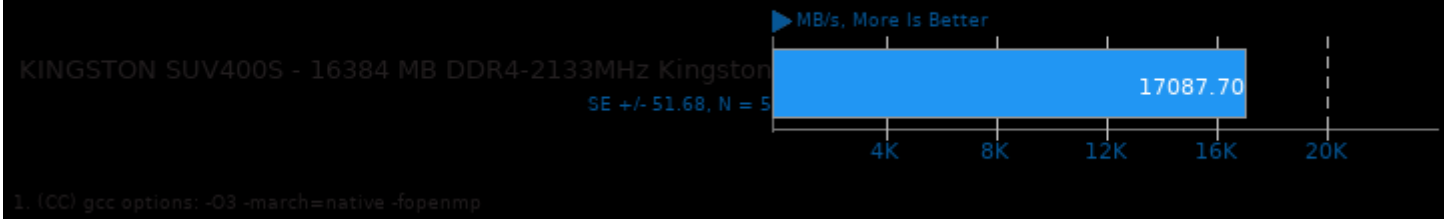
Type: Copy



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

Stream 2013-01-17

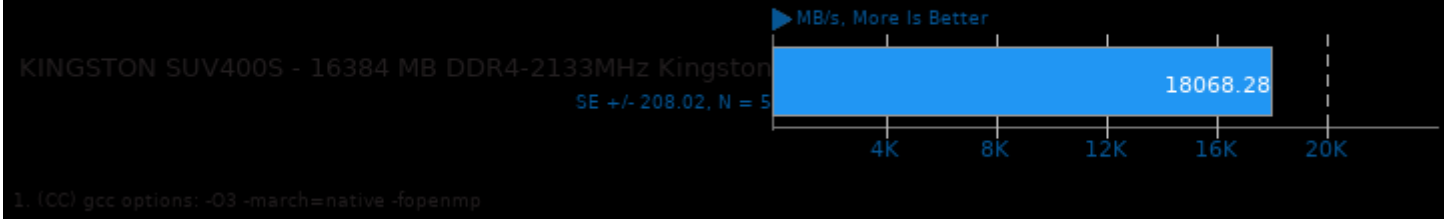
Type: Scale



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

Stream 2013-01-17

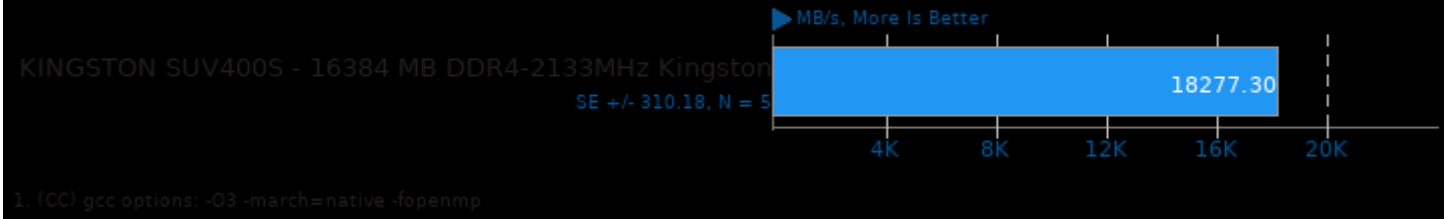
Type: Triad



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

Stream 2013-01-17

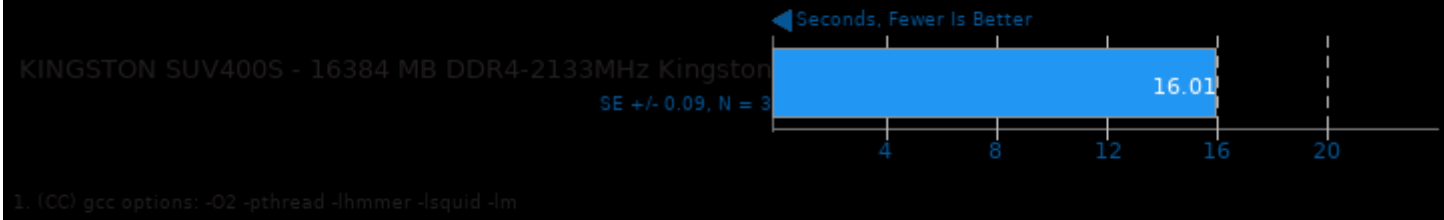
Type: Add



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

Timed HMMer Search 2.3.2

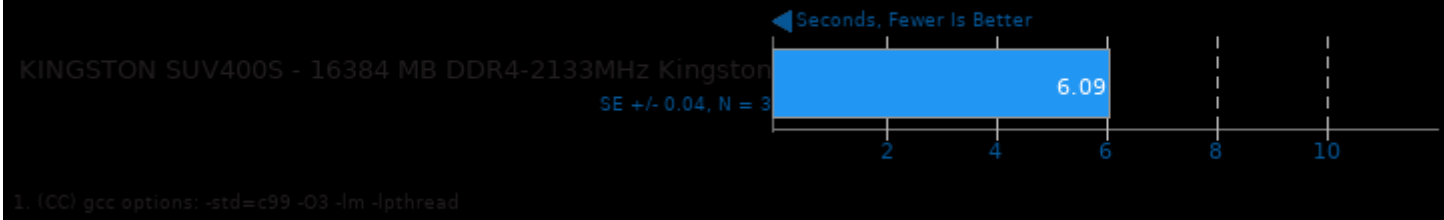
Pfam Database Search



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

Timed MAFFT Alignment 7.392

Multiple Sequence Alignment



1. (CC) gcc options: -std=c99 -O3 -lm -lpthread

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17:17.