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saf51015i-16c20211018

Intel Atom C3958 testing with a American Megatrends 5.13 and ASPEED on Ubuntu 16.04 via the Phoronix Test Suite.

Test Systems:

saf51015i

2 x 16384 MB DDR4-2400MHz Kingston

Processor: Intel Atom C3958 @ 2.00GHz (16 Cores), Motherboard: American Megatrends 5.13, Chipset: Intel Device 1980, Memory: 2 x 16384 MB DDR4-2400MHz Kingston, Disk: 256GB ArmourDriv + 16GB DF4016, Graphics: ASPEED, Network: 4 x Intel I210 + 4 x Intel I350 + 4 x Intel Device 15c4

OS: Ubuntu 16.04, Kernel: 4.4.0-116-generic (x86_64), Compiler: GCC 5.4.0 20160609 + Clang 3.8.0-2ubuntu4, File-System: ext4, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: always
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
Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x10
Security Notes: meltdown: Mitigation of PTI + spectre_v1: Mitigation of OSB (observable speculation barrier Intel v6) + spectre_v2: Mitigation of Full generic retpoline

	saf51015i	2 x 16384 MB DDR4-2400MHz Kingston
Stress-NG - MMAP (Bogo Ops/s)	101.28	
Standard Deviation	0.5%	
Stress-NG - NUMA (Bogo Ops/s)	168.03	
Standard Deviation	0.1%	
Stress-NG - MEMFD (Bogo Ops/s)	458.48	
Standard Deviation	0.1%	
Stress-NG - Atomic (Bogo Ops/s)	191051	
Standard Deviation	0.1%	
Stress-NG - Crypto (Bogo Ops/s)	952.09	
Standard Deviation	0%	
Stress-NG - Malloc (Bogo Ops/s)	29986863	
Standard Deviation	0.2%	
Stress-NG - RdRand (Bogo Ops/s)	13336	
Standard Deviation	0%	
Stress-NG - Forking (Bogo Ops/s)	3413	
Standard Deviation	0.1%	
Stress-NG - SENDFILE (Bogo Ops/s)	101054	
Standard Deviation	1.8%	
Stress-NG - CPU Cache (Bogo Ops/s)	330.55	
Standard Deviation	1.5%	
Stress-NG - CPU Stress (Bogo Ops/s)	8429	
Standard Deviation	0.3%	
Stress-NG - Semaphores (Bogo Ops/s)	1072236	
Standard Deviation	0.3%	
Stress-NG - Matrix Math (Bogo Ops/s)	19192	
Standard Deviation	0%	
Stress-NG - Vector Math (Bogo Ops/s)	12692	
Standard Deviation	0%	
Stress-NG - Memory Copying (Bogo Ops/s)	856.58	
Standard Deviation	0.3%	
Stress-NG - Socket Activity (Bogo Ops/s)	2992	
Standard Deviation	0.6%	
Stress-NG - Context Switching (Bogo Ops/s)	1343520	
Standard Deviation	1.1%	
Stress-NG - G.C.S.F (Bogo Ops/s)	342903	
Standard Deviation	0%	
Stress-NG - G.Q.D.S (Bogo Ops/s)	66.95	
Standard Deviation	0.4%	
Stress-NG - S.V.M.P (Bogo Ops/s)	1660357	
Standard Deviation	0.6%	
RAMspeed SMP - Add - Integer (MB/s)		11748
Standard Deviation		0.1%

RAMspeed SMP - Copy - Integer (MB/s)	11000
Standard Deviation	0.2%
RAMspeed SMP - Scale - Integer (MB/s)	11396
Standard Deviation	0.1%
RAMspeed SMP - Triad - Integer (MB/s)	12260
Standard Deviation	0.9%
RAMspeed SMP - Average - Integer (MB/s)	11299
Standard Deviation	2.1%
RAMspeed SMP - Add - Floating Point (MB/s)	11247
Standard Deviation	2.4%
RAMspeed SMP - Copy - Floating Point (MB/s)	10939
Standard Deviation	0%
RAMspeed SMP - Scale - Floating Point (MB/s)	11092
Standard Deviation	2%
RAMspeed SMP - Triad - Floating Point (MB/s)	11443
Standard Deviation	2.4%
RAMspeed SMP - Average - Floating Point (MB/s)	10890
Standard Deviation	0.1%
Himeno Benchmark - P.P.S (MFLOPS)	1206
Standard Deviation	0.1%

Stress-NG 0.13.02

Test: MMAP



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

Test: NUMA



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

Test: MEMFD



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

Test: Atomic



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

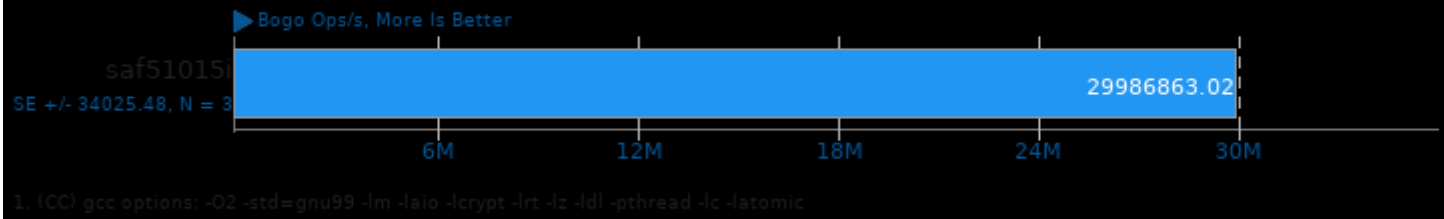
Test: Crypto



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

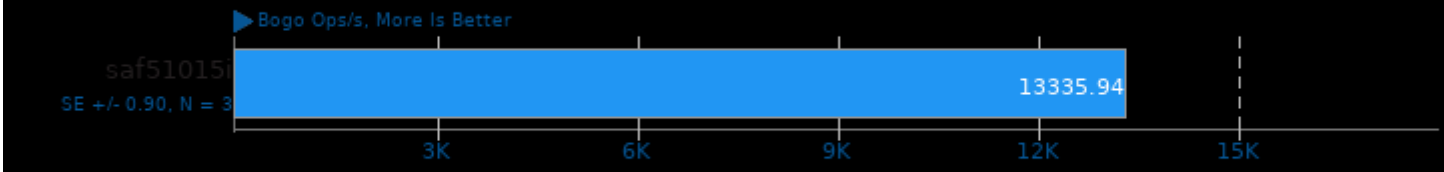
Test: Malloc



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

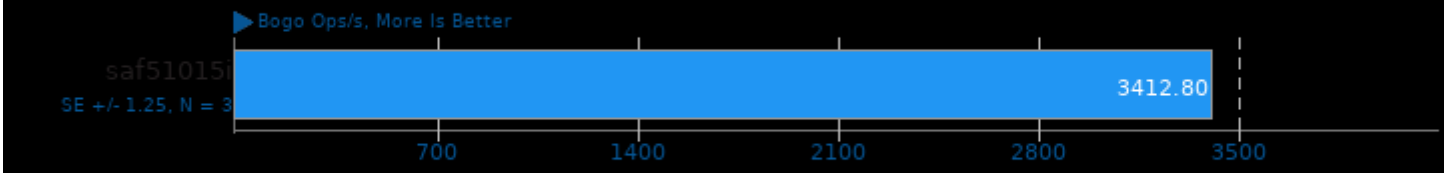
Test: RdRand



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

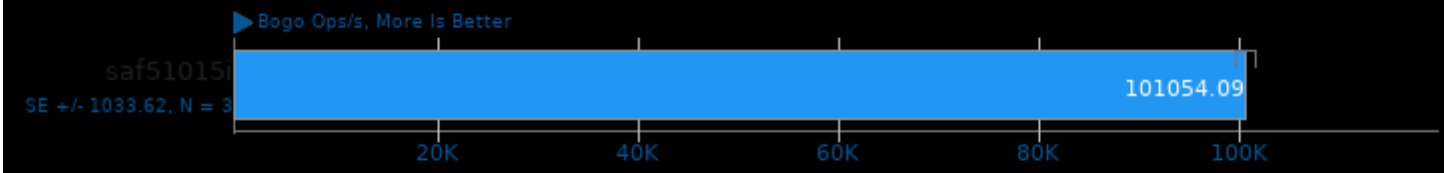
Test: Forking



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

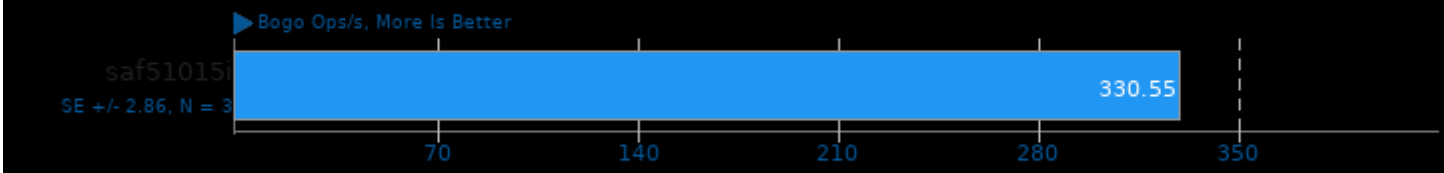
Test: SENDFILE



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

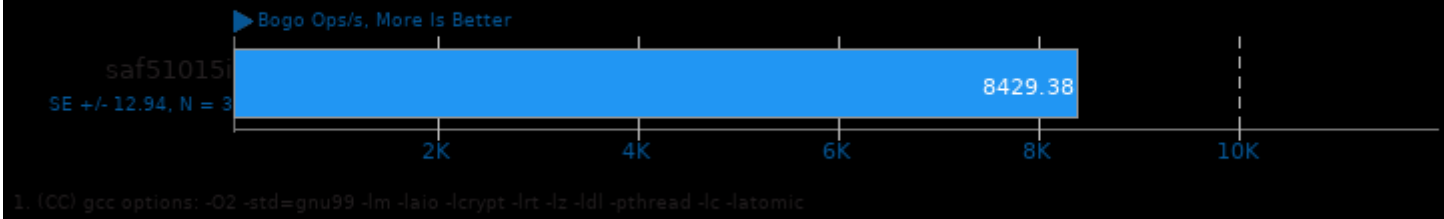
Test: CPU Cache



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

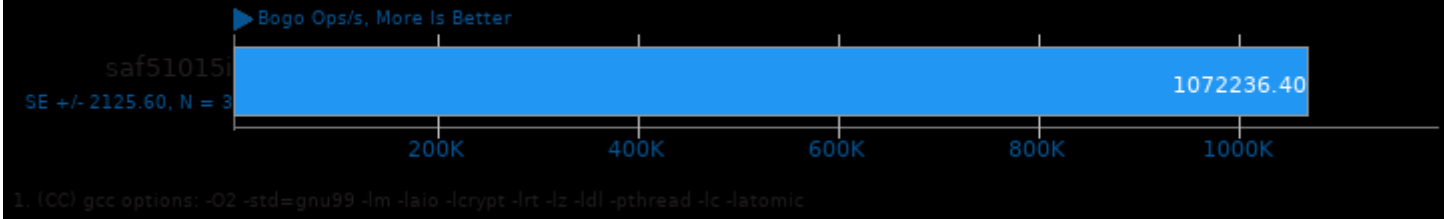
Test: CPU Stress



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

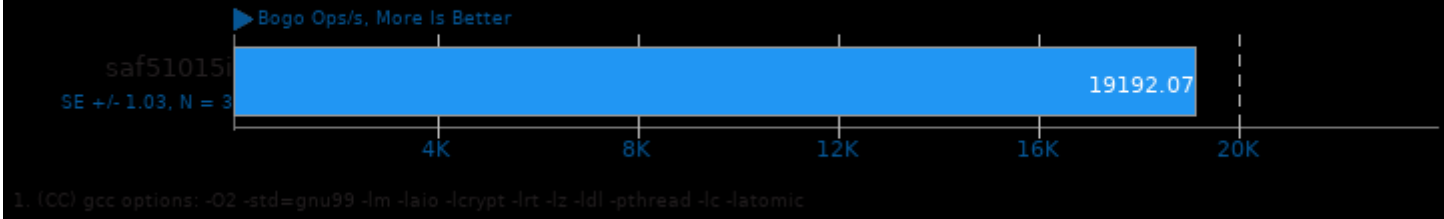
Test: Semaphores



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

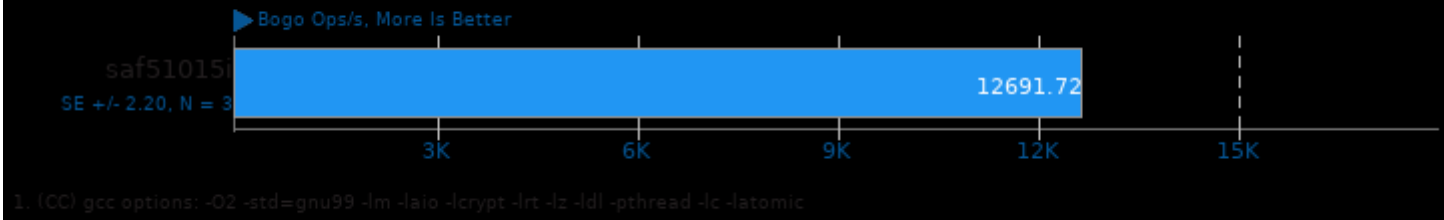
Test: Matrix Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

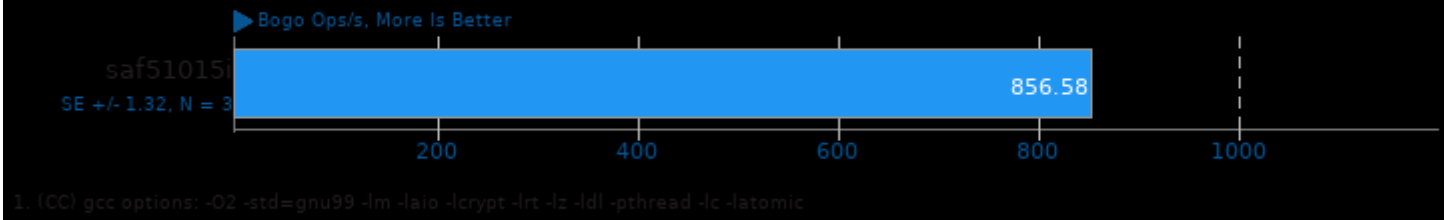
Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

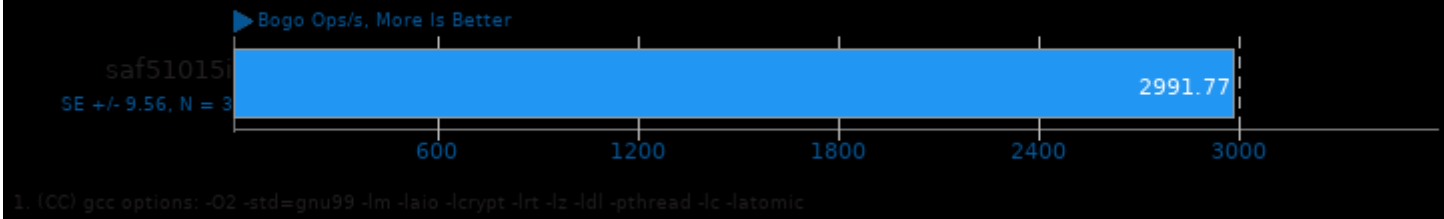
Test: Memory Copying



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

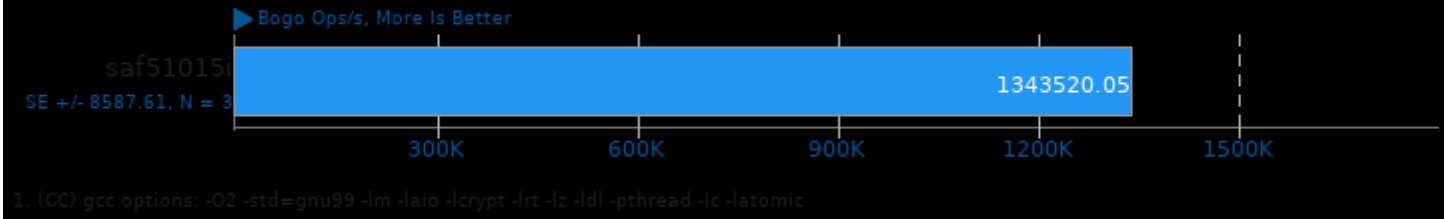
Test: Socket Activity



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

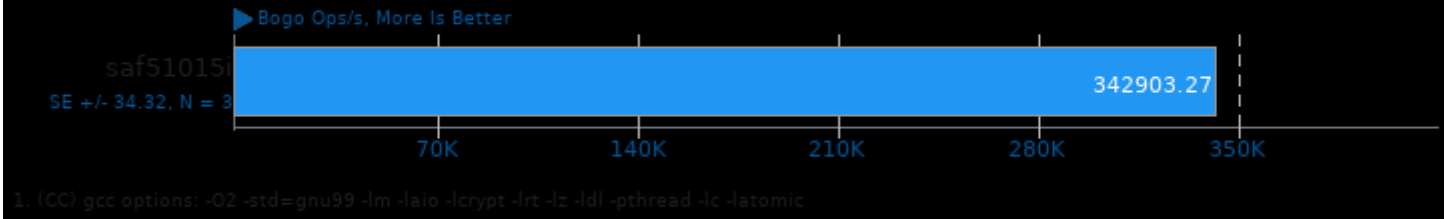
Test: Context Switching



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

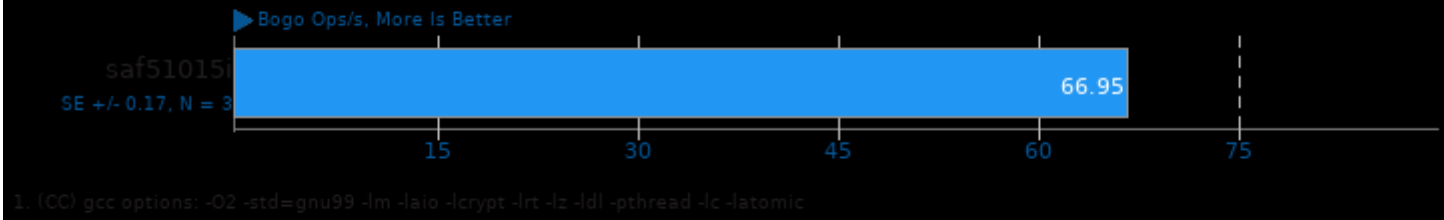
Test: Glibc C String Functions



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

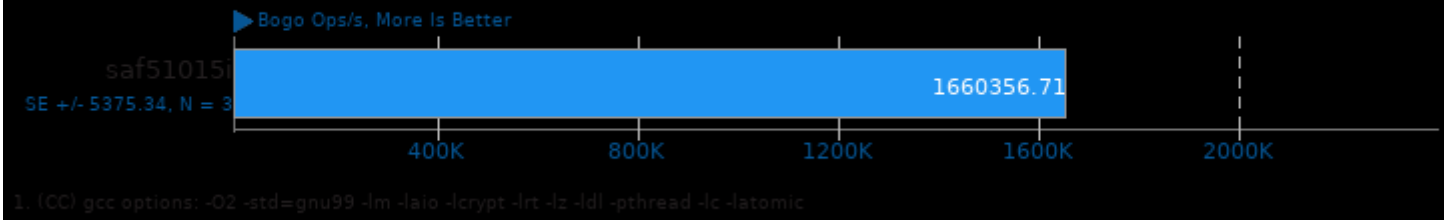
Test: Glibc Qsort Data Sorting



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

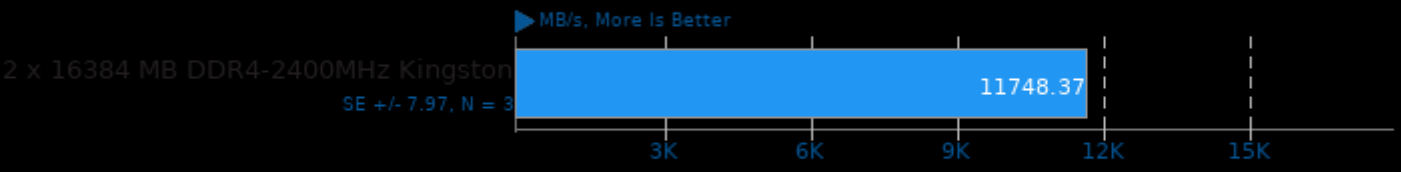
Test: System V Message Passing



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -pthread -lc -latomic

RAMspeed SMP 3.5.0

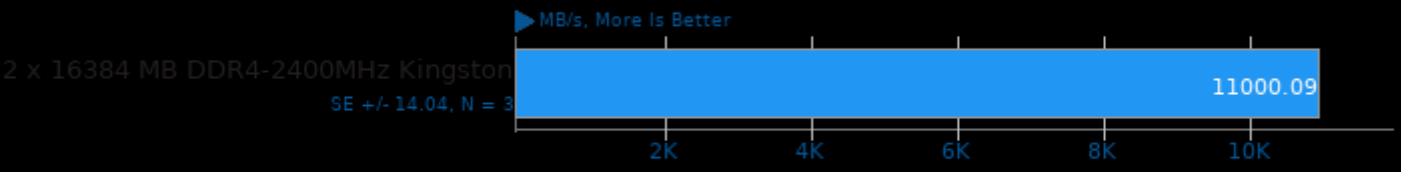
Type: Add - Benchmark: Integer



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

RAMspeed SMP 3.5.0

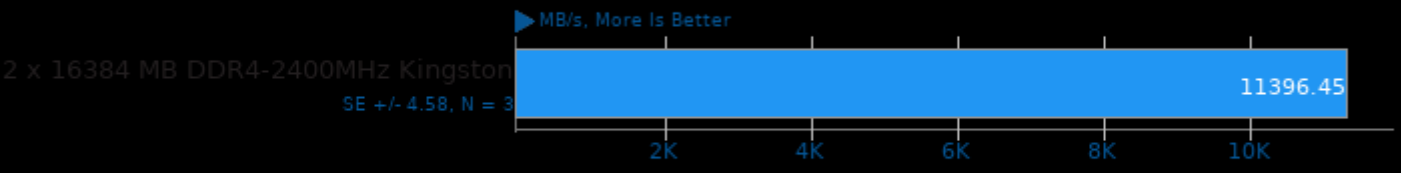
Type: Copy - Benchmark: Integer



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

RAMspeed SMP 3.5.0

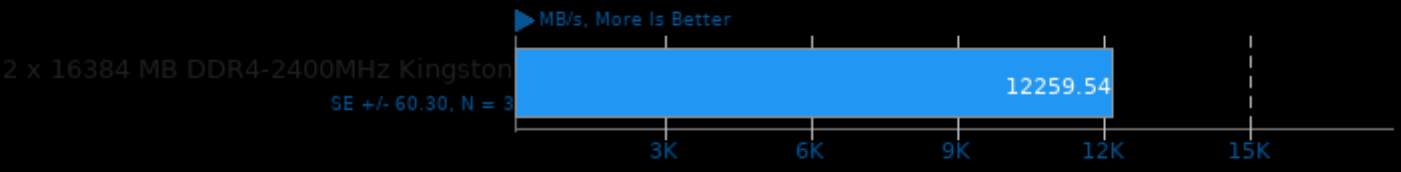
Type: Scale - Benchmark: Integer



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

RAMspeed SMP 3.5.0

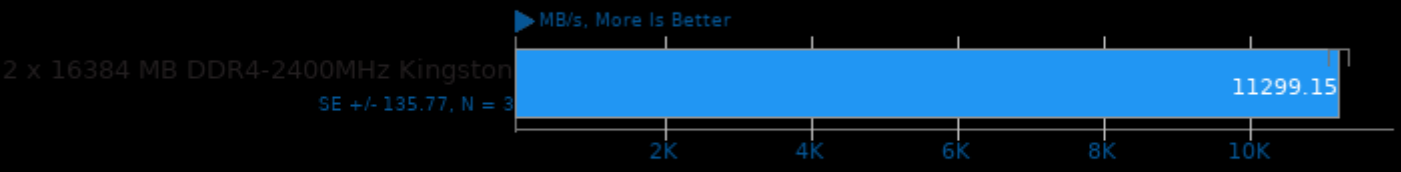
Type: Triad - Benchmark: Integer



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

RAMspeed SMP 3.5.0

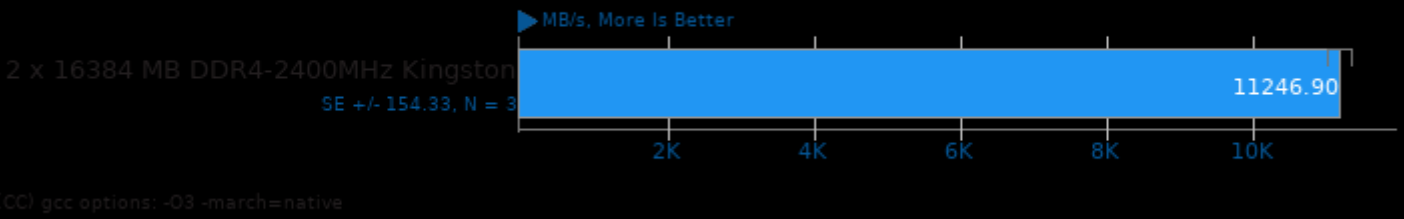
Type: Average - Benchmark: Integer



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

RAMspeed SMP 3.5.0

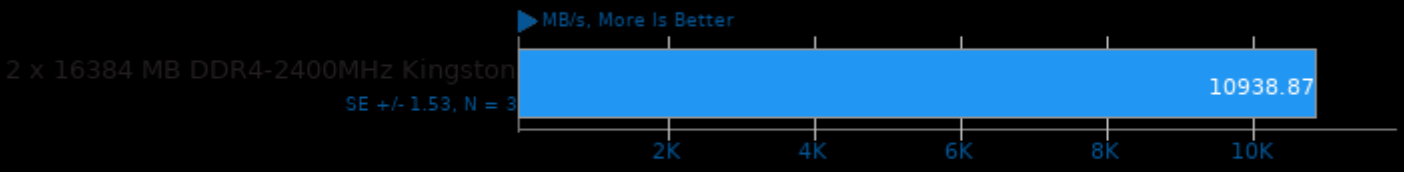
Type: Add - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

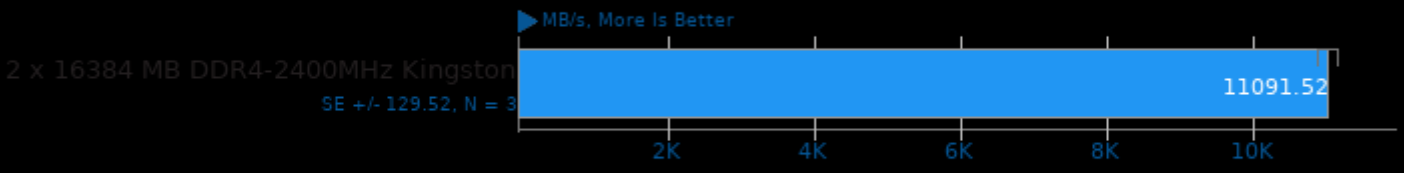
Type: Copy - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

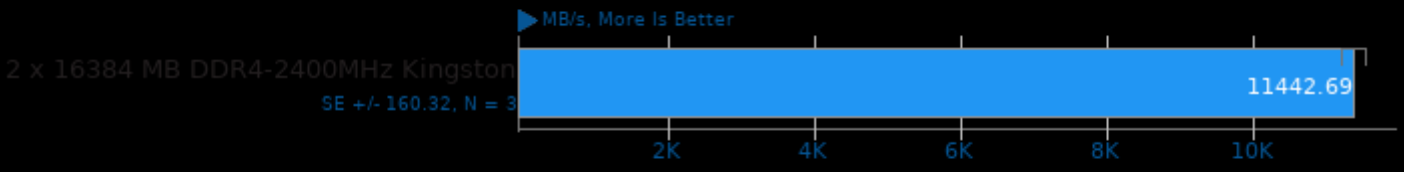
Type: Scale - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

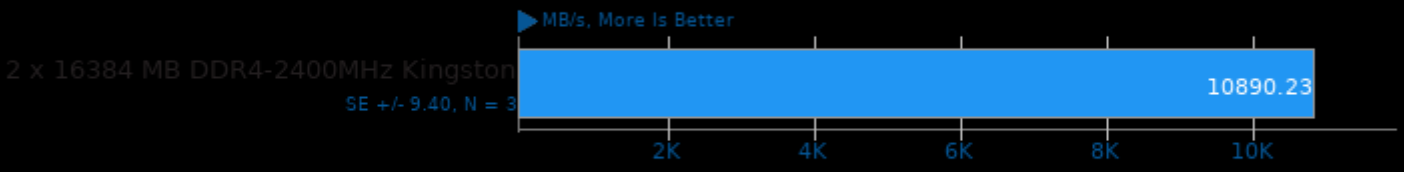
Type: Triad - Benchmark: Floating Point



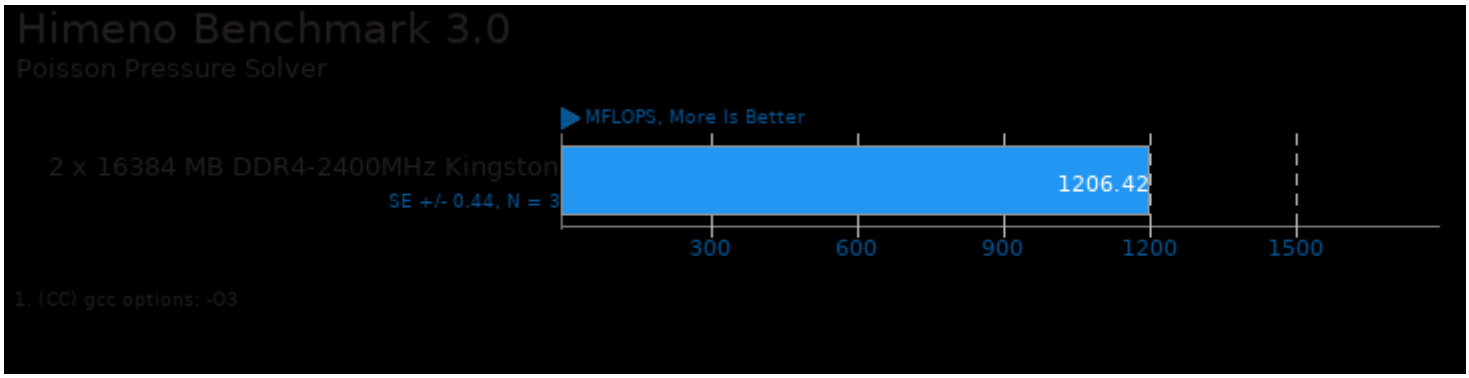
1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Average - Benchmark: Floating Point



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



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:38.