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1013-04

1013-05

Automated Executive Summary

Phytium D2000/8 E8C - AMD Caicos 2GB - GreatWall had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (Phytium D2000/8 E8C - AMD Caicos 2GB - GreatWall) was 1.004x the speed of the slowest (1013-04).

Test Systems:

1013-04

Phytium D2000/8 E8C - AMD Caicos 2GB - GreatWall

Processor: Phytium D2000/8 E8C @ 2.30GHz (8 Cores), Motherboard: GreatWall GW-001Y1A-FTH v1.0 (KunLun BIOS V4.0 BIOS), Memory: 8GB, Disk: 512GB Western Digital PC SN530 SDBPNPZ-512G + 15GB DataTraveler 2.0,

1013-04

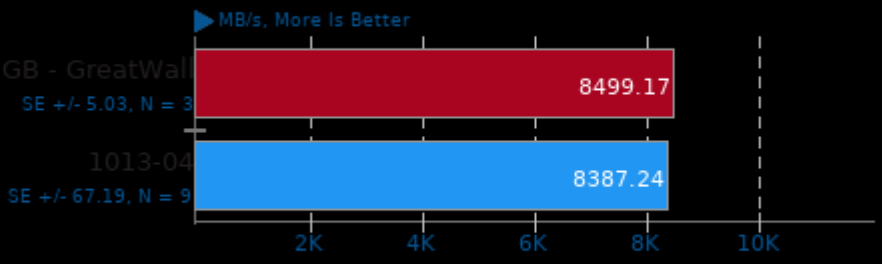
Graphics: AMD Caicos 2GB, Audio: Realtek ALC269VB

OS: Kylin v10, Kernel: 5.4.18-23-generic (aarch64), Display Server: X Server 1.20.8, OpenGL: 3.3 Mesa 20.0.8 (LLVM 9.0.1), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: scpi-cpufreq performance
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + tsx_async_abort: Not affected

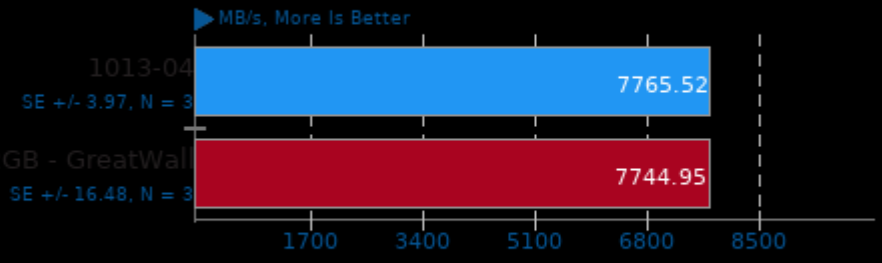
	1013-04	Phytium D2000/8 E8C - AMD Caicos 2GB - GreatWall
RAMspeed SMP - Add - Integer (MB/s)	**8387**	**8499**
Normalized	98.68%	100%
Standard Deviation	2.4%	0.1%
RAMspeed SMP - Copy - Integer (MB/s)	**7766**	**7745**
Normalized	100%	99.74%
Standard Deviation	0.1%	0.4%
RAMspeed SMP - Scale - Integer (MB/s)	**7504**	**7517**
Normalized	99.83%	100%
Standard Deviation	0.8%	1%
RAMspeed SMP - Triad - Integer (MB/s)		6697
Standard Deviation		0.1%
RAMspeed SMP - Average - Integer (MB/s)		7619
Standard Deviation		0.1%
RAMspeed SMP - Add - Floating Point (MB/s)		8026
Standard Deviation		6.4%
RAMspeed SMP - Copy - Floating Point (MB/s)		7737
Standard Deviation		0.6%
RAMspeed SMP - Scale - Floating Point (MB/s)		7658
Standard Deviation		0.1%
RAMspeed SMP - Triad - Floating Point (MB/s)		6686
Standard Deviation		2.4%
RAMspeed SMP - Average - Floating Point (MB/s)		7534
Standard Deviation		2.3%

RAMspeed SMP 3.5.0
Type: Add - Benchmark: Integer



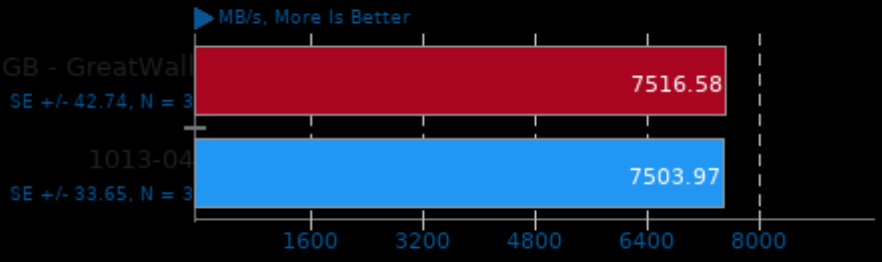
1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0
Type: Copy - Benchmark: Integer



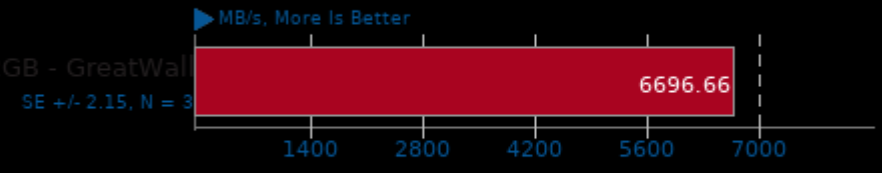
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RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Integer



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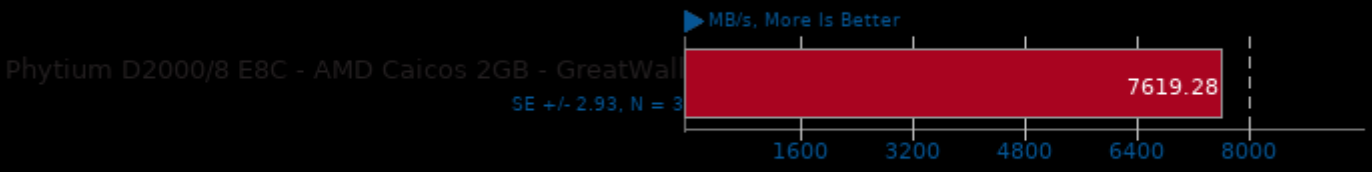
RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Integer



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RAMspeed SMP 3.5.0

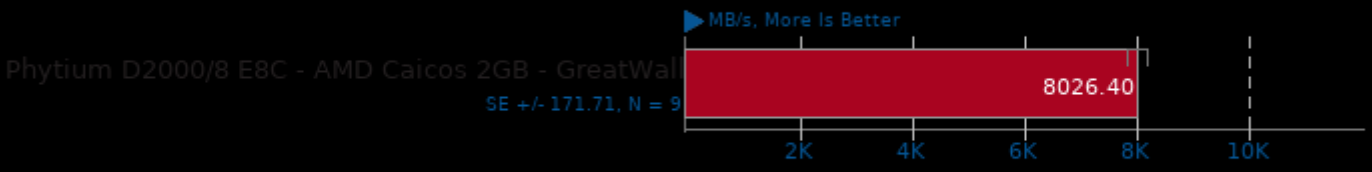
Type: Average - Benchmark: Integer



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RAMspeed SMP 3.5.0

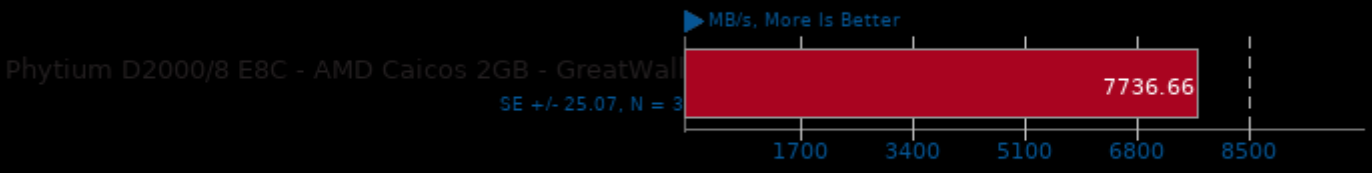
Type: Add - Benchmark: Floating Point



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RAMspeed SMP 3.5.0

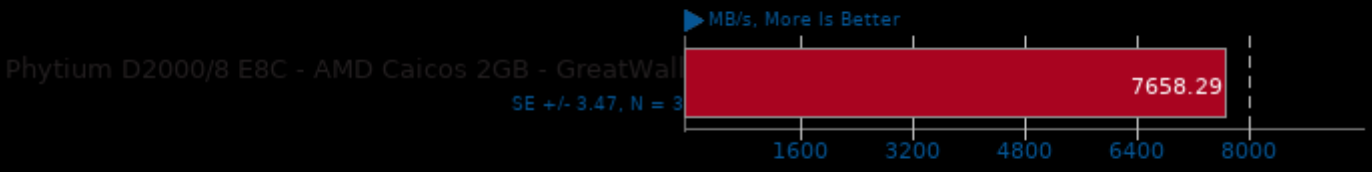
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RAMspeed SMP 3.5.0

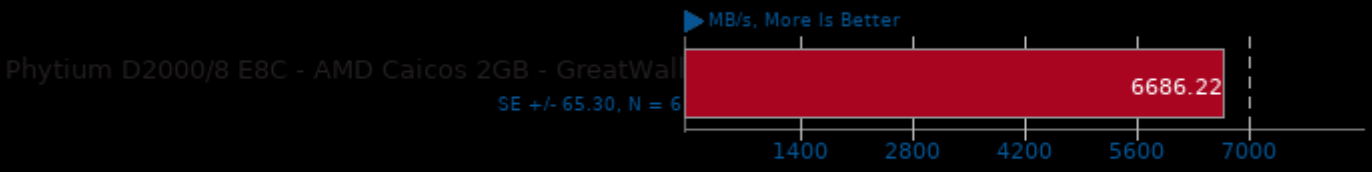
Type: Scale - Benchmark: Floating Point



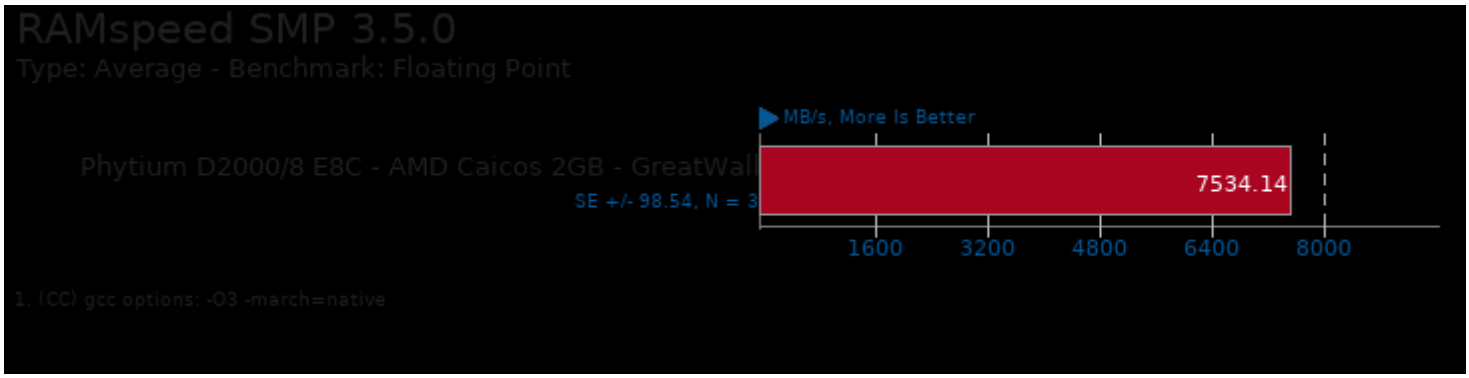
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RAMspeed SMP 3.5.0

Type: Triad - Benchmark: Floating Point



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



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