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memory test1

memory

Test Systems:

memory

Processor: Intel Xeon E5-2686 v4 (2 Cores), Motherboard: Xen HVM domU (4.2.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1 x 8192 MB RAM, Disk: 97GB, Graphics: Cirrus Logic GD 5446

OS: Ubuntu 18.04, Kernel: 5.4.0-1029-aws (x86_64), Compiler: GCC 7.5.0, File-System: ext4, System Layer: Xen HVM domU 4.2.amazon

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v
Processor Notes: CPU Microcode: 0xb000038
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown +

meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retrpoline STIBP: disabled RSB filling + srbs: Not affected + tsx_async_abort: Not affected

compare memory

Compare Memory

raspberry

Raspberry memory

Processor: ARMv8 Cortex-A72 @ 1.50GHz (4 Cores), Motherboard: BCM2835 Raspberry Pi 4 Model B Rev 1.4, Memory: 8GB, Disk: 32GB SD32G

OS: Ubuntu 20.04, Kernel: 5.4.0-1041-raspi (aarch64), Compiler: GCC 9.3.0, File-System: ext4

Kernel Notes: snd_bcm2835.enable_compat_alsa=0 snd_bcm2835.enable_hdmi=1
 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-objc-gc=auto --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: cpufreq-dt ondemand
 Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbs: Not affected + tsx_async_abort: Not affected

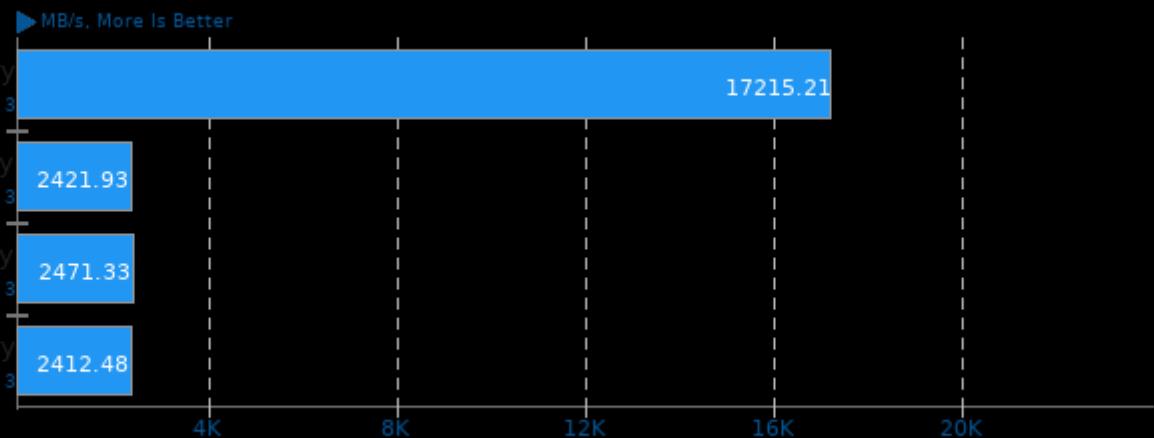
	memory	compare memory	Compare Memory	raspberry	Raspberry memory
RAMspeed SMP - Triad - Integer (MB/s)	17215	2422	2471		2412
Normalized	100%	14.07%	14.36%		14.01%
Standard Deviation	1%	1.3%	0.4%		1.1%
RAMspeed SMP - Triad - Floating Point (MB/s)	17700		2966		3006
Normalized	100%		16.76%		16.99%
Standard Deviation	2.3%		2.5%		1.5%
RAMspeed SMP - Average - Integer (MB/s)	17251	3840	3711		3789
Normalized	100%	22.26%	21.51%		21.96%
Standard Deviation	0.8%	1.2%	0.9%		0%
RAMspeed SMP - Add - Integer (MB/s)	17949	3912	3902		3909
Normalized	100%	21.8%	21.74%		21.78%
Standard Deviation	2.2%	0.6%	0.8%		2.4%
RAMspeed SMP - Add - Floating Point (MB/s)	17588	3959	3992		3880
Normalized	100%	22.51%	22.7%		22.06%
Standard Deviation	2.3%	2.3%	1.9%		1.8%
RAMspeed SMP - Average - Floating Point (MB/s)	16910		3786		3922
Normalized	100%		22.39%		23.2%
Standard Deviation	1.1%		1.8%		0.4%

RAMspeed SMP - Copy - Floating Point (MB/s)	16411	4144	4348
Normalized	100%	25.25%	26.49%
Standard Deviation	1.8%	1.6%	2.3%
RAMspeed SMP - Copy - Integer (MB/s)	16192	4267	4316
Normalized	100%	26.35%	26.66%
Standard Deviation	2.1%	2.4%	1%
RAMspeed SMP - Scale - Floating Point (MB/s)	16102	4273	4431
Normalized	100%	26.54%	27.52%
Standard Deviation	1%	1.3%	2.1%
RAMspeed SMP - Scale - Integer (MB/s)	15832	4454	4530
Normalized	100%	28.13%	28.61%
Standard Deviation	2.1%	1.5%	0.9%

memory test1

RAMspeed SMP 3.5.0

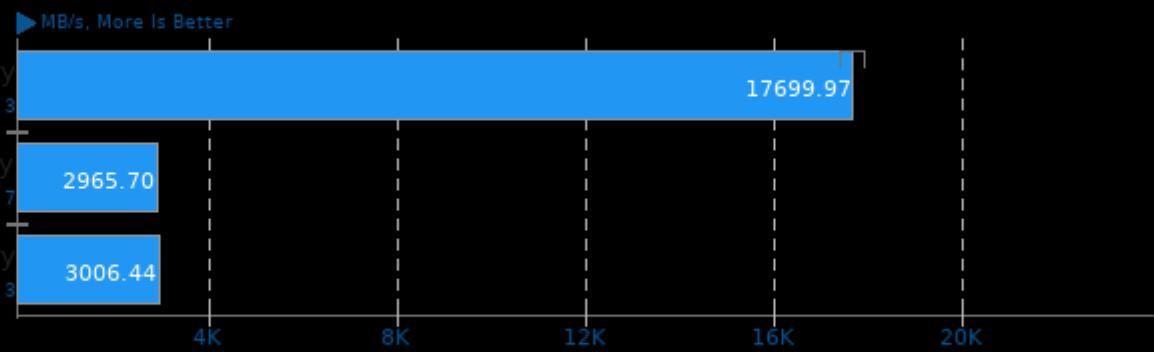
Type: Triad - Benchmark: Integer



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

RAMspeed SMP 3.5.0

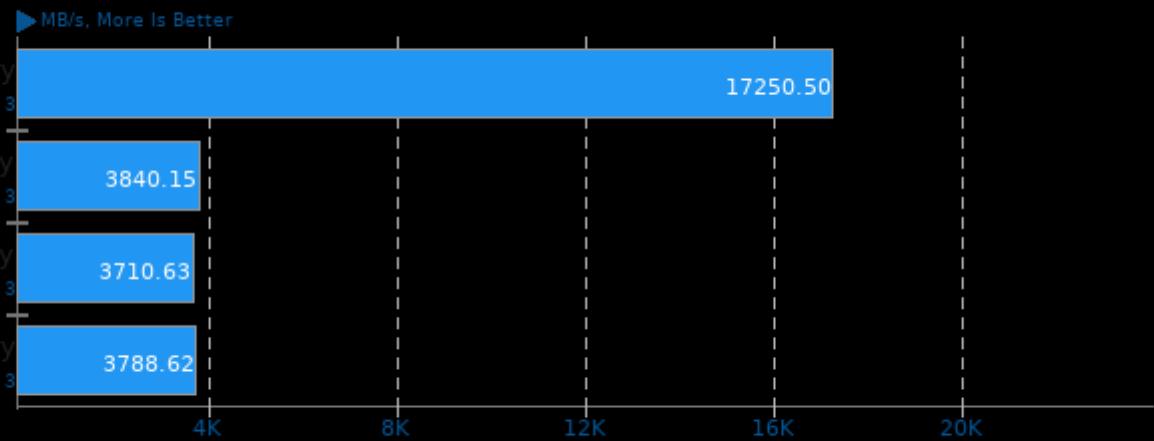
Type: Triad - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

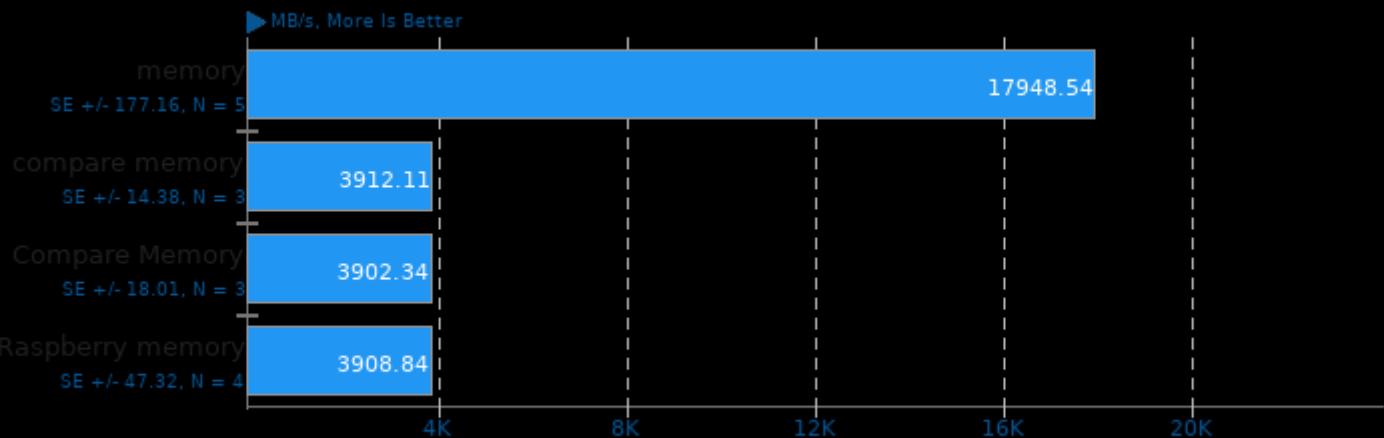
Type: Average - Benchmark: Integer



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RAMspeed SMP 3.5.0

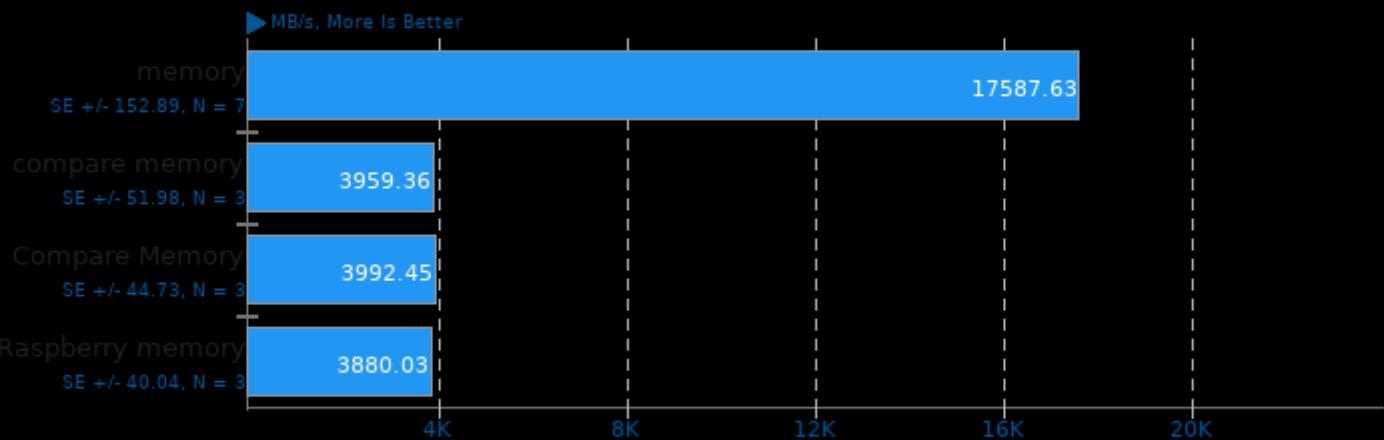
Type: Add - Benchmark: Integer



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RAMspeed SMP 3.5.0

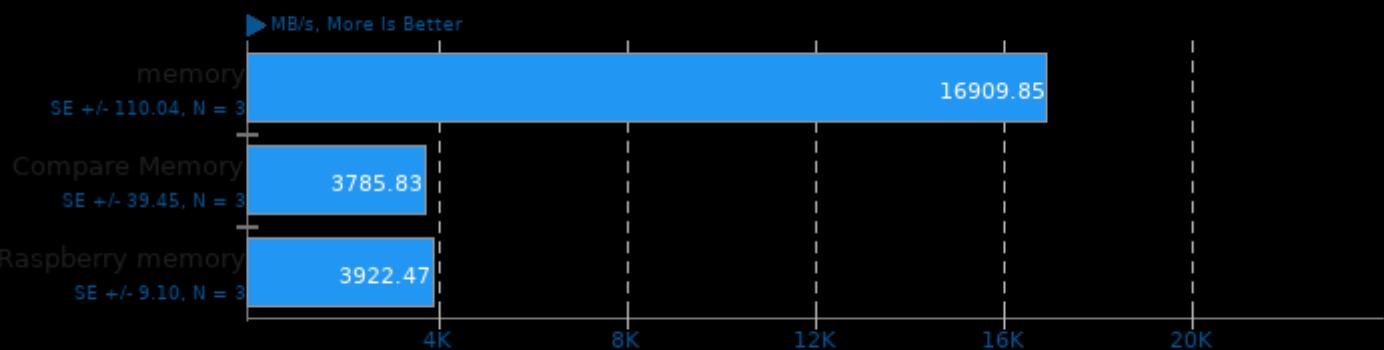
Type: Add - Benchmark: Floating Point



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RAMspeed SMP 3.5.0

Type: Average - Benchmark: Floating Point

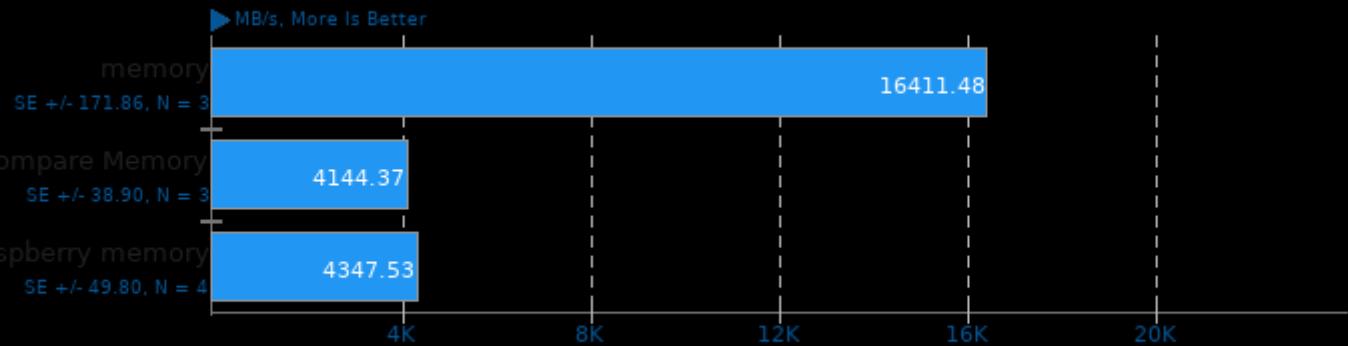


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RAMspeed SMP 3.5.0

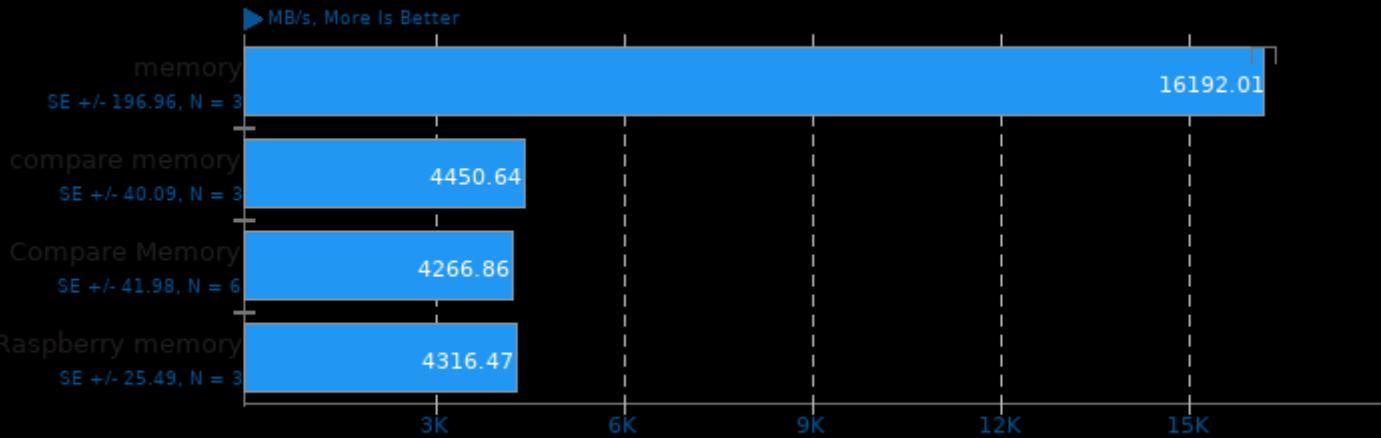
Type: Copy - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

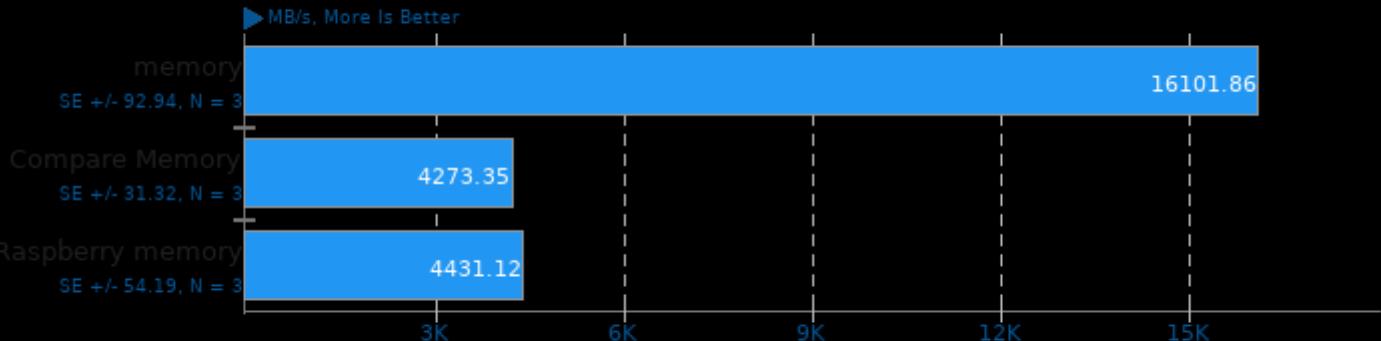
Type: Copy - Benchmark: Integer



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RAMspeed SMP 3.5.0

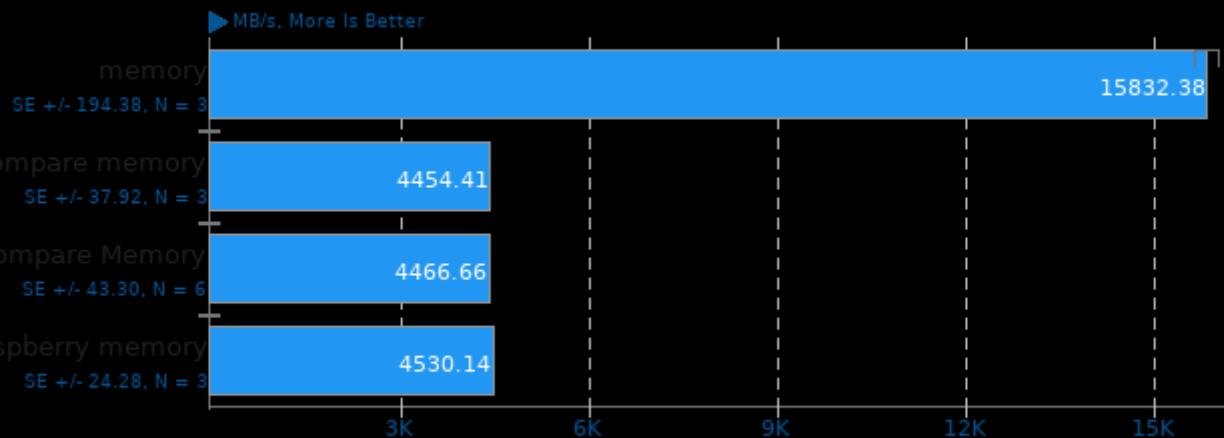
Type: Scale - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

Type: Scale - Benchmark: Integer



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