

www.phoronix-test-suite.com

memory-bench

KVM VMware testing on Debian 10 via the Phoronix Test Suite.

Test Systems:

memory-bench

memory-benchmark

Processor: AMD EPYC 7282 16-Core (8 Cores), Motherboard: QEMU Standard PC (i440FX + PIIX 1996) (rel-1.14.0-0-g155821a1990b-prebuilt.qemu.org BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 16384 MB + 14336 MB RAM, Disk: 859GB QEMU HDD, Graphics: VMware SVGA II, Network: Red Hat Virtio device

OS: Debian 10, Kernel: 4.19.0-16-amd64 (x86_64), Compiler: GCC 8.3.0, File-System: ext4, System Layer: KVM VMware

Kernel Notes: Transparent Huge Pages: always
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

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--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: 0x830104d
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

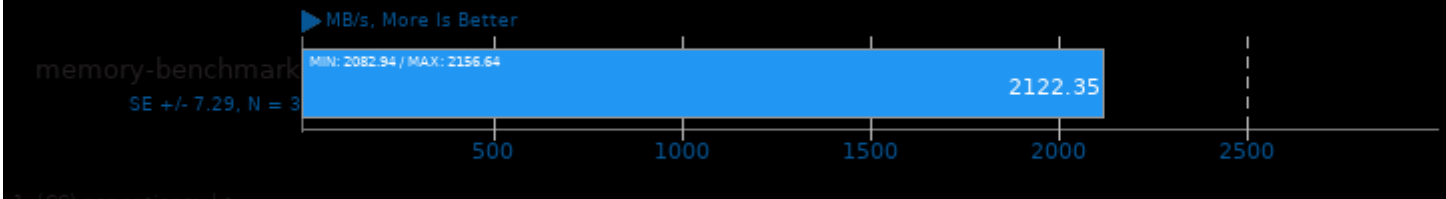
	memory-bench	memory-benchmark
CacheBench - Read Cache (MB/s)		2122
Standard Deviation		0.6%
CacheBench - Write Cache (MB/s)		15405
Standard Deviation		2.4%
MBW - Memory Copy - 1024 MiB (MiB/s)		11008
Standard Deviation		4.7%
MBW - M.C.F.B.S - 1024 MiB (MiB/s)		7262
Standard Deviation		1.6%
RAMspeed SMP - Add - Integer (MB/s)		25999
Standard Deviation		2.3%
RAMspeed SMP - Copy - Integer (MB/s)		25035
Standard Deviation		3.3%
RAMspeed SMP - Scale - Integer (MB/s)		23144
Standard Deviation		1%
RAMspeed SMP - Triad - Integer (MB/s)		25496
Standard Deviation		6.7%
RAMspeed SMP - Average - Integer (MB/s)		25466
Standard Deviation		3%
RAMspeed SMP - Add - Floating Point (MB/s)		28025
Standard Deviation		1.8%
RAMspeed SMP - Copy - Floating Point (MB/s)		24908
Standard Deviation		1%
RAMspeed SMP - Scale - Floating Point (MB/s)		23997
Standard Deviation		1.7%
RAMspeed SMP - Triad - Floating Point (MB/s)		25641
Standard Deviation		4.9%
RAMspeed SMP - Average - Floating Point (MB/s)		25328
Standard Deviation		1.2%
Stream - Copy (MB/s)		68170
Standard Deviation		5.3%
Stream - Scale (MB/s)		45447
Standard Deviation		7.4%
Stream - Triad (MB/s)		51958
Standard Deviation		2.5%
Stream - Add (MB/s)		51891
Standard Deviation		3.8%
t-test1 - 1 (sec)		33.146
Standard Deviation		2.1%
t-test1 - 2 (sec)		12.011
Standard Deviation		4.9%
Tinymembench - Standard Memcpy (MB/s)		11156
Standard Deviation		10.9%

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Tinymembench - Standard Memset (MB/s)	11803
Standard Deviation	1.3%

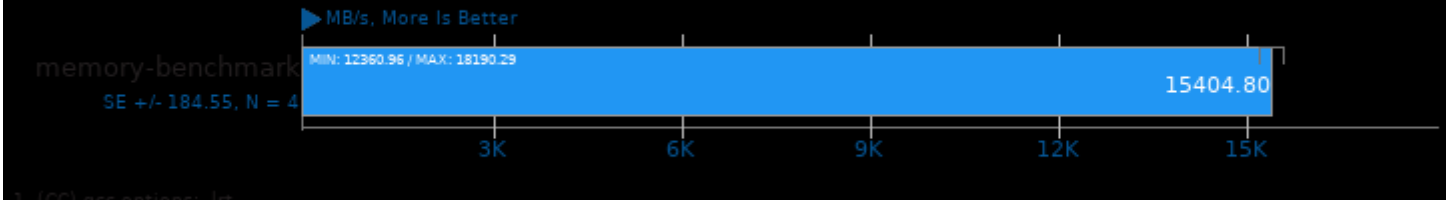
memory-bench

CacheBench
Read Cache



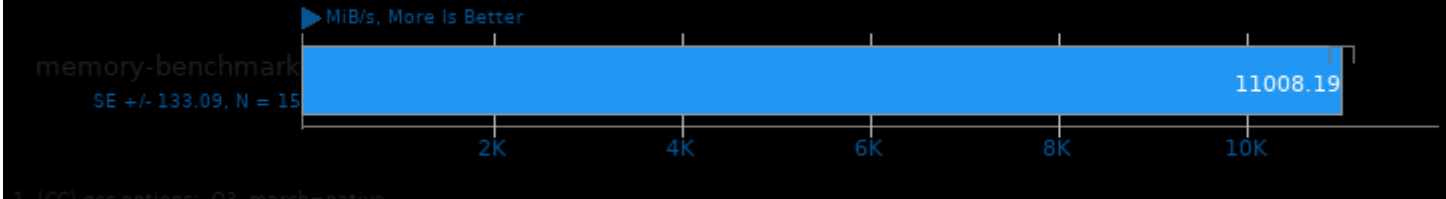
1. (CC) gcc options: -lrt

CacheBench
Write Cache



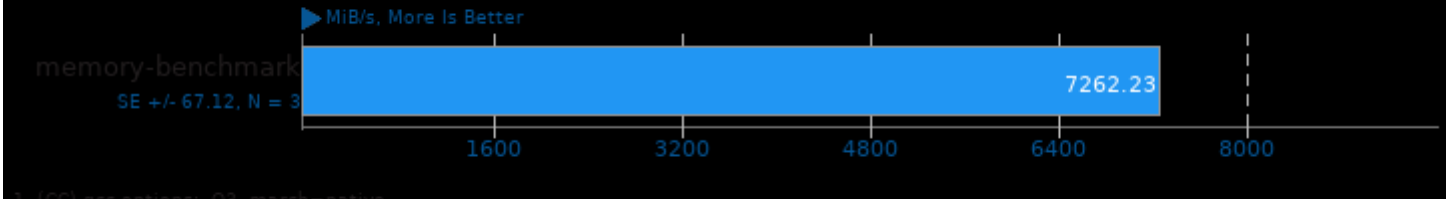
1. (CC) gcc options: -lrt

MBW 2018-09-08
Test: Memory Copy - Array Size: 1024 MiB



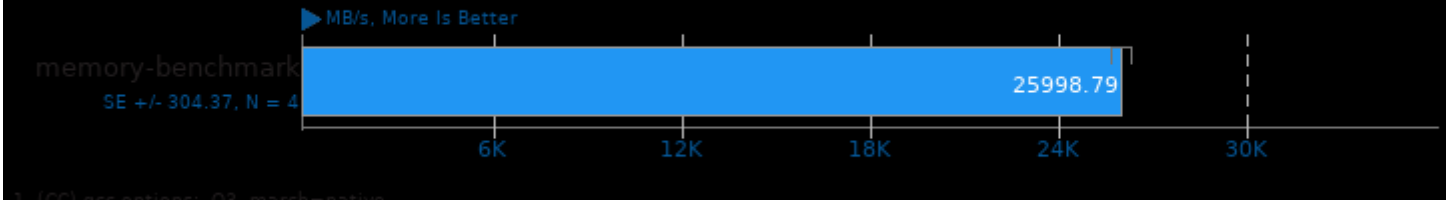
1. (CC) gcc options: -O3 -march=native

MBW 2018-09-08
Test: Memory Copy, Fixed Block Size - Array Size: 1024 MiB



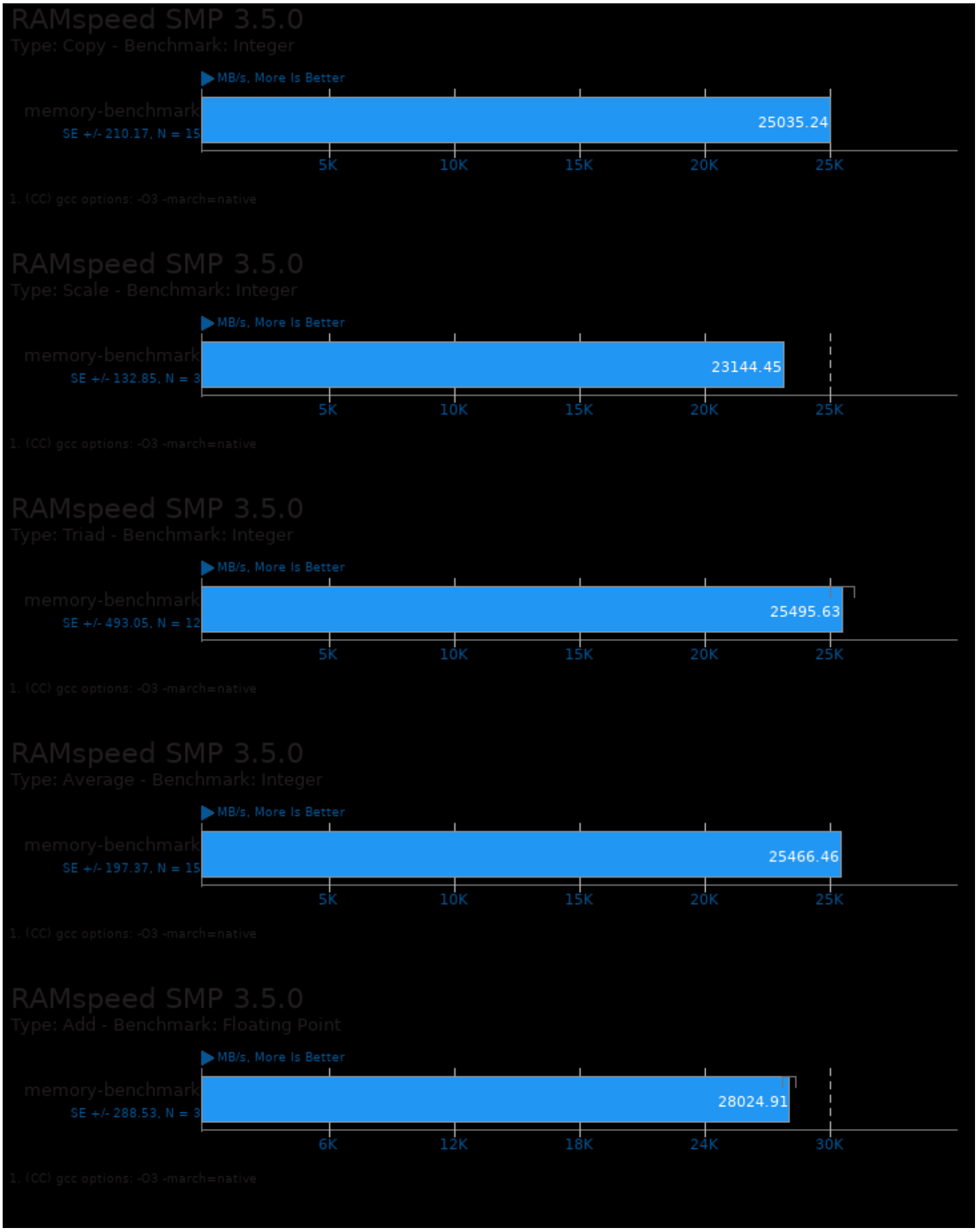
1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0
Type: Add - Benchmark: Integer

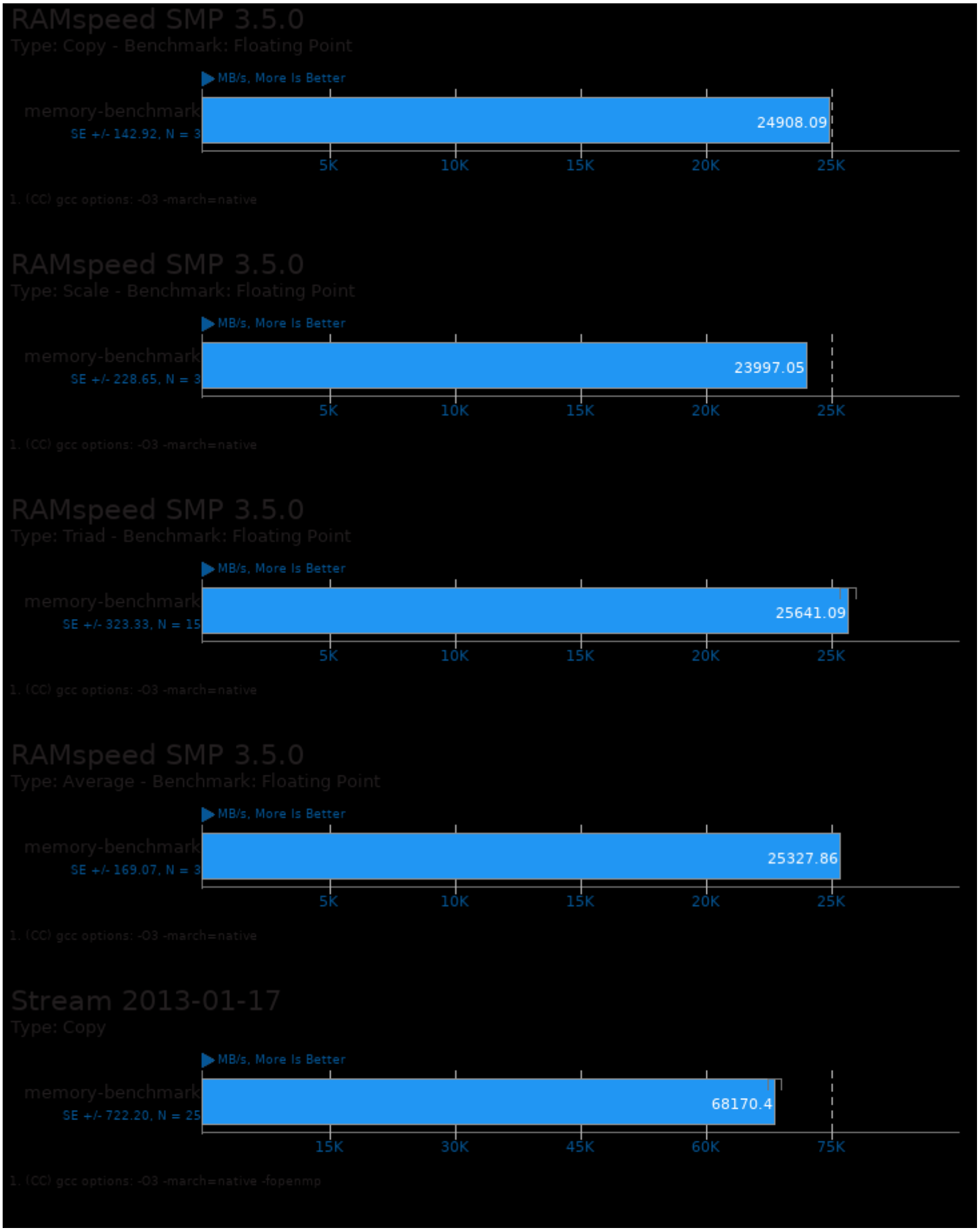


1. (CC) gcc options: -O3 -march=native

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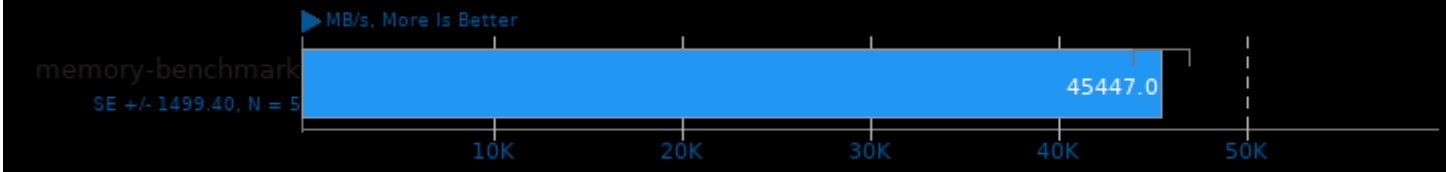


memory-bench



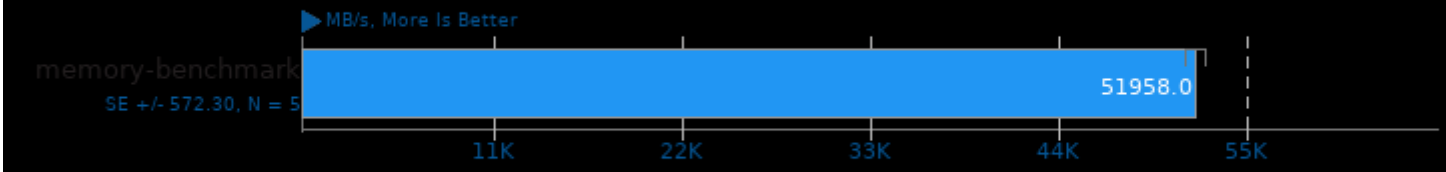
memory-bench

Stream 2013-01-17
Type: Scale



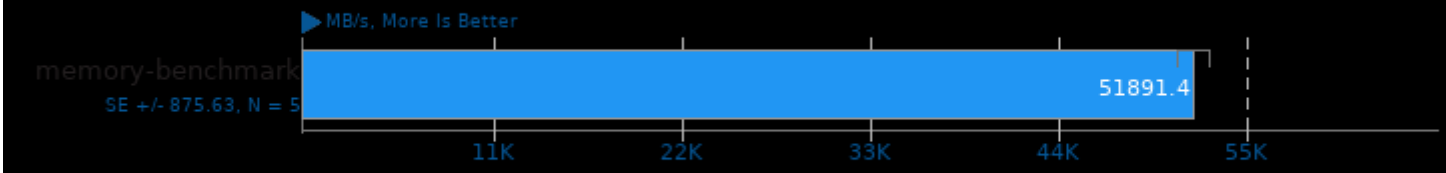
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Type: Triad



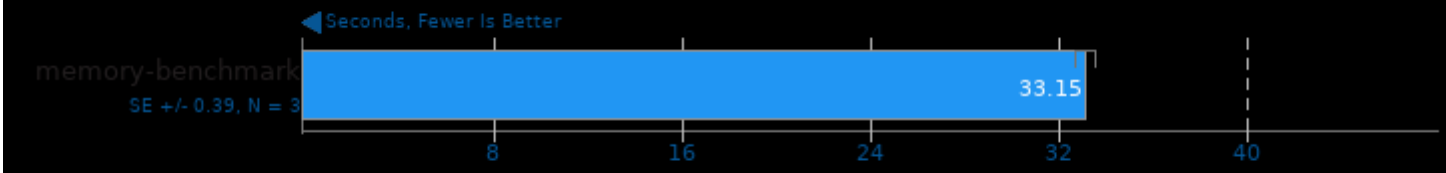
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Type: Add



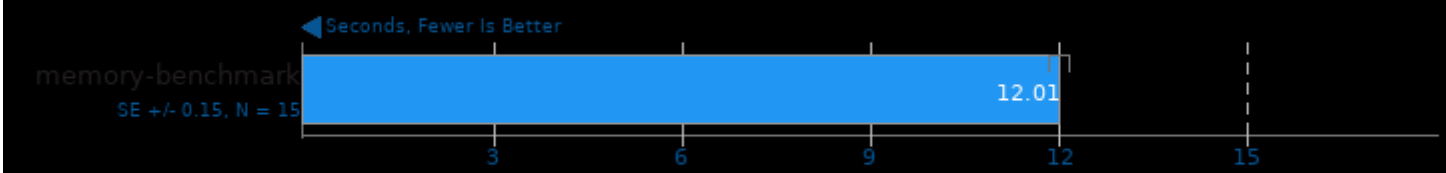
1. (CC) gcc options: -O3 -march=native -fopenmp

t-test1 2017-01-13
Threads: 1



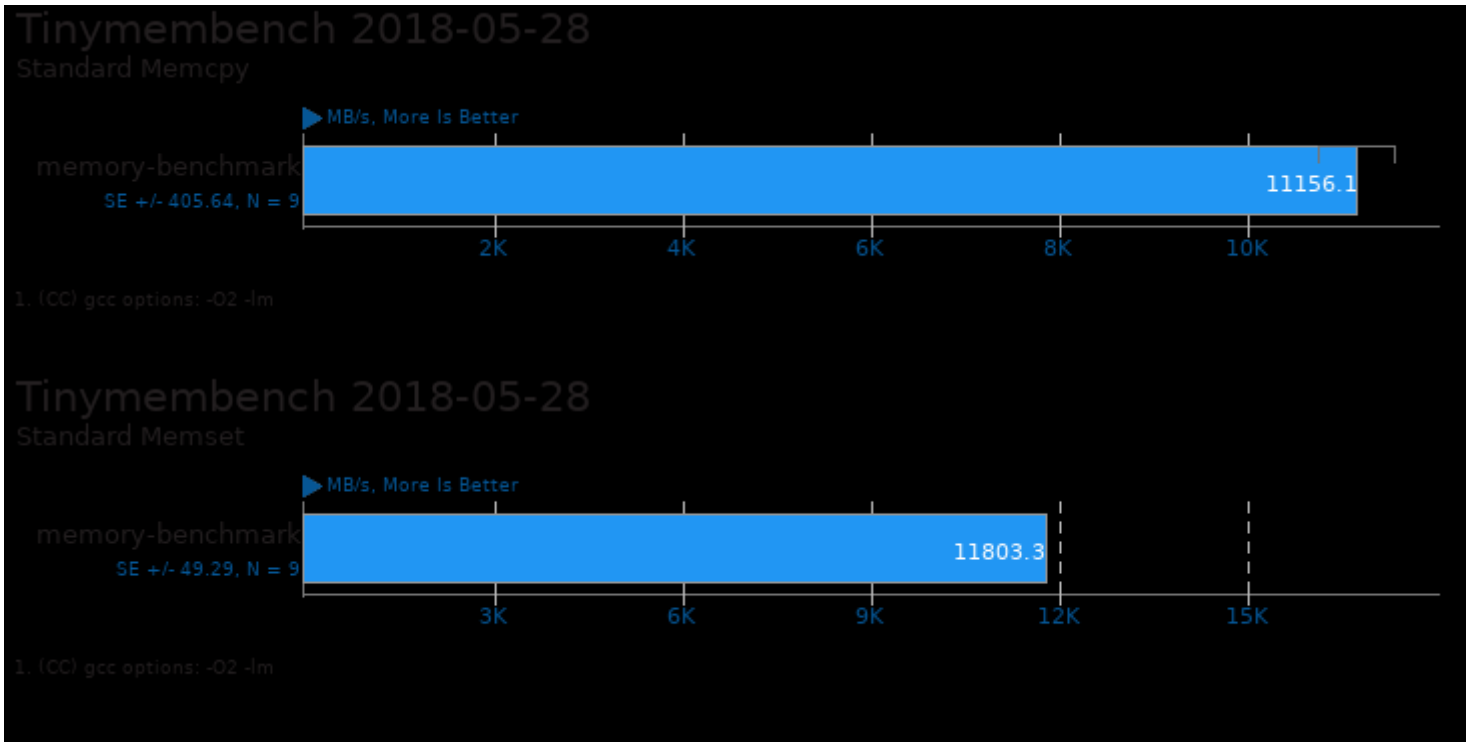
1. (CC) gcc options: -pthread

t-test1 2017-01-13
Threads: 2



1. (CC) gcc options: -pthread

memory-bench



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