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membnech_G5900

Intel Celeron G5900 testing with a ASRock H410M-HVS (P1.30 BIOS) and ASUS NVIDIA GeForce GT 1030 2GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

membench

Processor: Intel Celeron G5900 @ 3.40GHz (2 Cores), Motherboard: ASRock H410M-HVS (P1.30 BIOS), Chipset: Intel Device 9b73, Memory: 16GB, Disk: 160GB Western Digital WD1600AAJS-0 + 2 x 120GB KINGSTON SA400S3, Graphics: ASUS NVIDIA GeForce GT 1030 2GB, Audio: Realtek ALC887-VD, Monitor: PHL 223V7, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.8.0-48-generic (x86_64), Desktop: GNOME Shell 3.36.7, Display Server: X Server 1.20.9, Display Driver: NVIDIA 460.39, OpenGL: 4.6.0, OpenCL: OpenCL 1.2 CUDA 11.2.136, Vulkan: 1.2.155, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie

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--enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --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=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0xe0 - Thermald 1.9.1
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

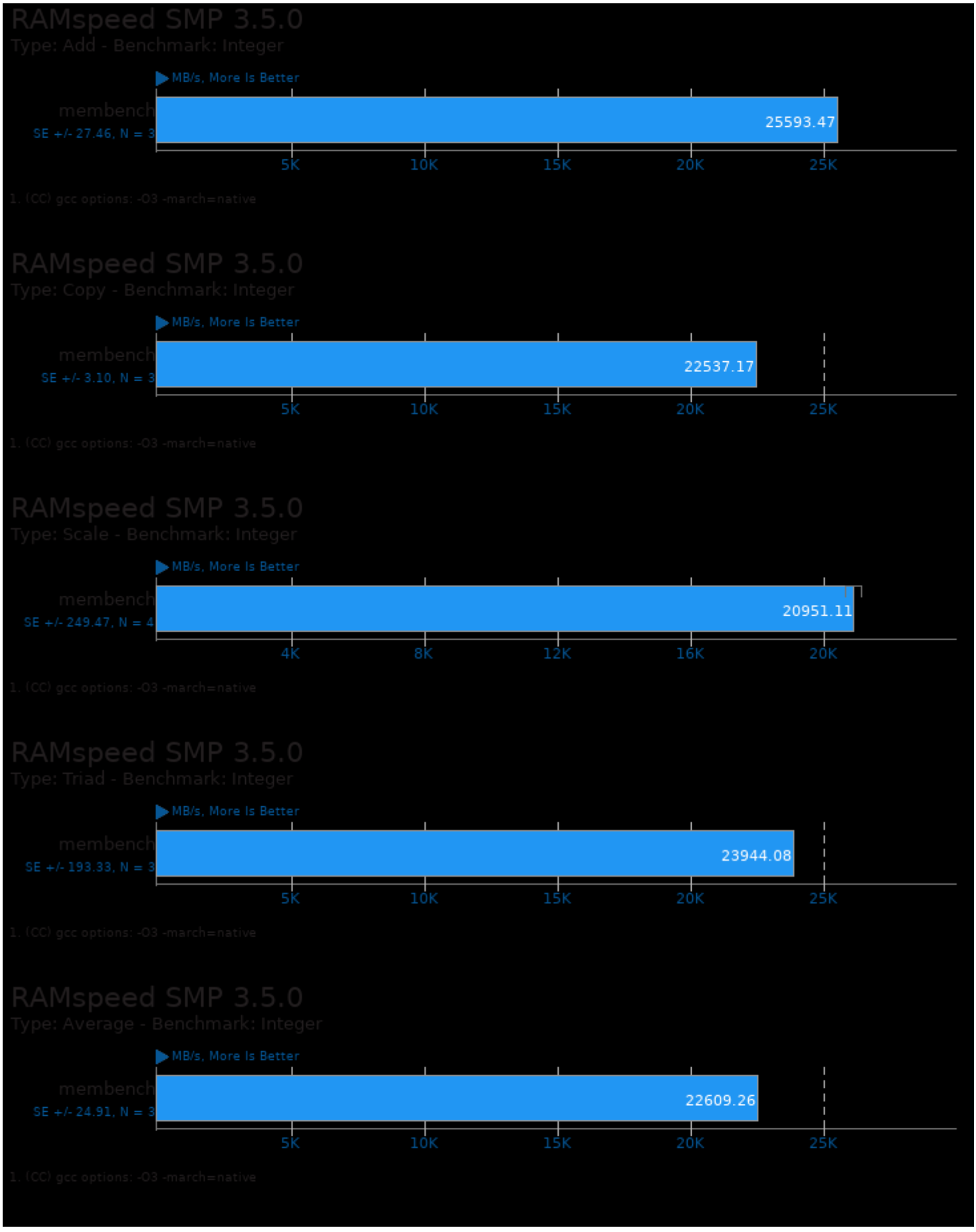
	membench
RAMspeed SMP - Add - Integer (MB/s)	25593
Standard Deviation	0.2%
RAMspeed SMP - Copy - Integer (MB/s)	22537
Standard Deviation	0%
RAMspeed SMP - Scale - Integer (MB/s)	20951
Standard Deviation	2.4%
RAMspeed SMP - Triad - Integer (MB/s)	23944
Standard Deviation	1.4%
RAMspeed SMP - Average - Integer (MB/s)	22609
Standard Deviation	0.2%
RAMspeed SMP - Add - Floating Point (MB/s)	24390
Standard Deviation	3.5%
RAMspeed SMP - Copy - Floating Point (MB/s)	22480
Standard Deviation	0%
RAMspeed SMP - Scale - Floating Point (MB/s)	22447
Standard Deviation	0%
RAMspeed SMP - Triad - Floating Point (MB/s)	24923
Standard Deviation	0%
RAMspeed SMP - Average - Floating Point (MB/s)	23693
Standard Deviation	0%
Stream - Copy (MB/s)	34920
Standard Deviation	0.2%
Stream - Scale (MB/s)	22970
Standard Deviation	0.1%
Stream - Triad (MB/s)	25488
Standard Deviation	0%
Stream - Add (MB/s)	25536
Standard Deviation	0.1%
Tinymembench - Standard Memcpy (MB/s)	14160
Standard Deviation	0.4%
Tinymembench - Standard Memset (MB/s)	30514
Standard Deviation	0.4%
MBW - Memory Copy - 1024 MiB (MiB/s)	13093
Standard Deviation	0.4%
MBW - M.C.F.B.S - 1024 MiB (MiB/s)	9608
Standard Deviation	0.1%
t-test1 - 1 (sec)	22.590
Standard Deviation	0.8%
t-test1 - 2 (sec)	7.842
Standard Deviation	0.1%
CacheBench - Read Cache (MB/s)	2878
Standard Deviation	0%

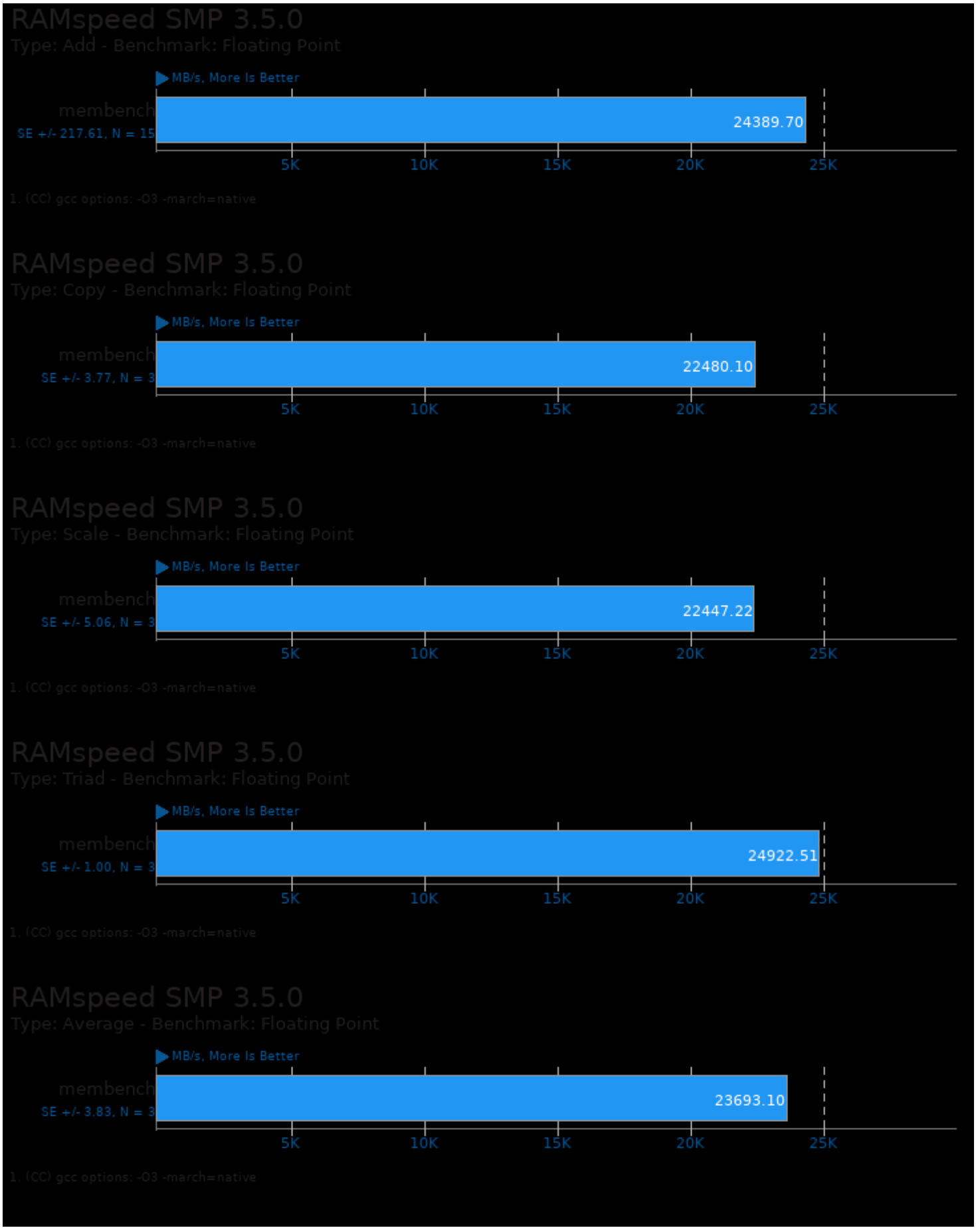
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CacheBench - Write Cache (MB/s) 24115

Standard Deviation 0%

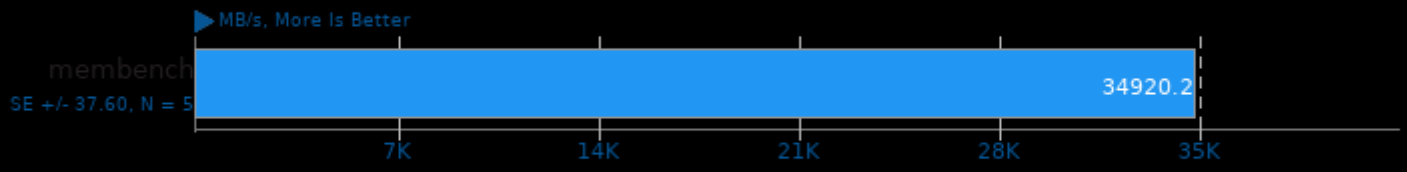
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RAMspeed SMP 3.5.0
Type: Add - Benchmark: Floating Point
MB/s, More Is Better
membench
SE +/- 217.61, N = 15
24389.70
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Copy - Benchmark: Floating Point
MB/s, More Is Better
membench
SE +/- 3.77, N = 3
22480.10
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Floating Point
MB/s, More Is Better
membench
SE +/- 5.06, N = 3
22447.22
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Floating Point
MB/s, More Is Better
membench
SE +/- 1.00, N = 3
24922.51
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Average - Benchmark: Floating Point
MB/s, More Is Better
membench
SE +/- 3.83, N = 3
23693.10
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native

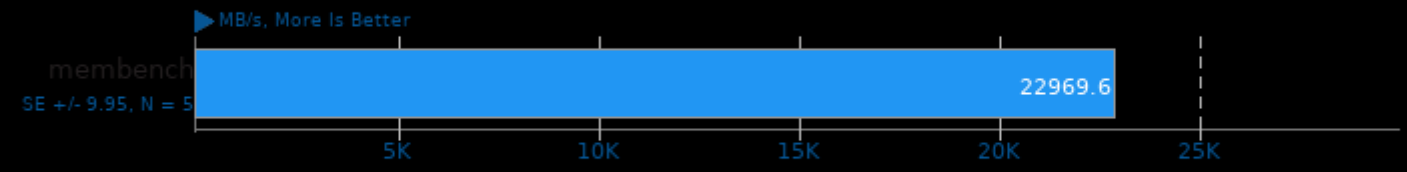
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Stream 2013-01-17
Type: Copy



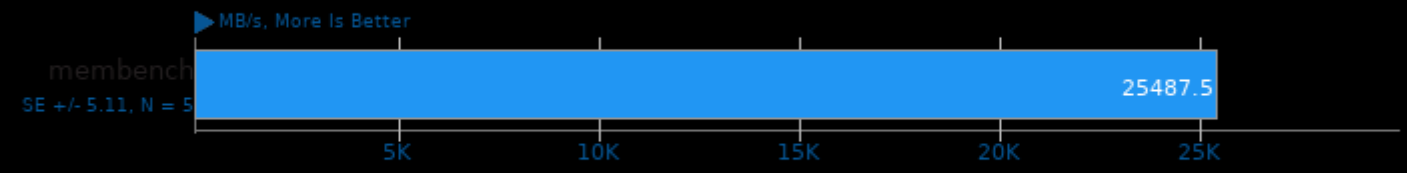
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Type: Scale



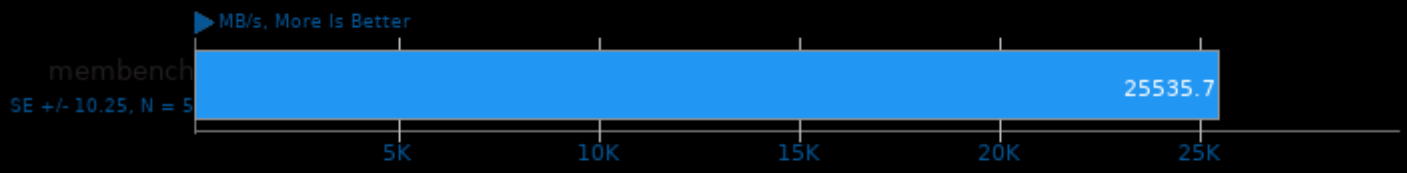
1. (CC) gcc options: -O3 -march=native -fopenmp

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

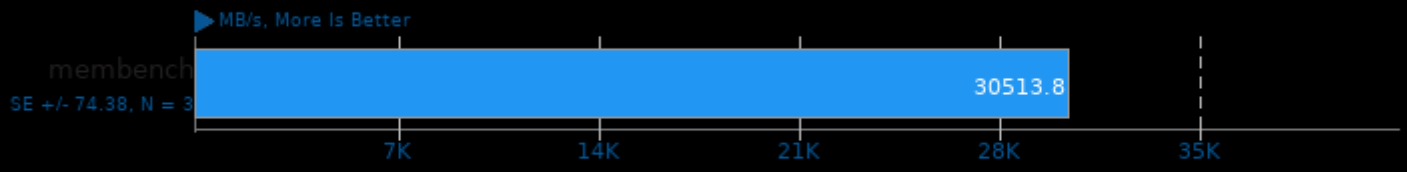
Tinymembench 2018-05-28
Standard Memcpy



1. (CC) gcc options: -O2 -lm

Tinymembench 2018-05-28

Standard Memset



1. (CC) gcc options: -O2 -lm

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

t-test1 2017-01-13

Threads: 1



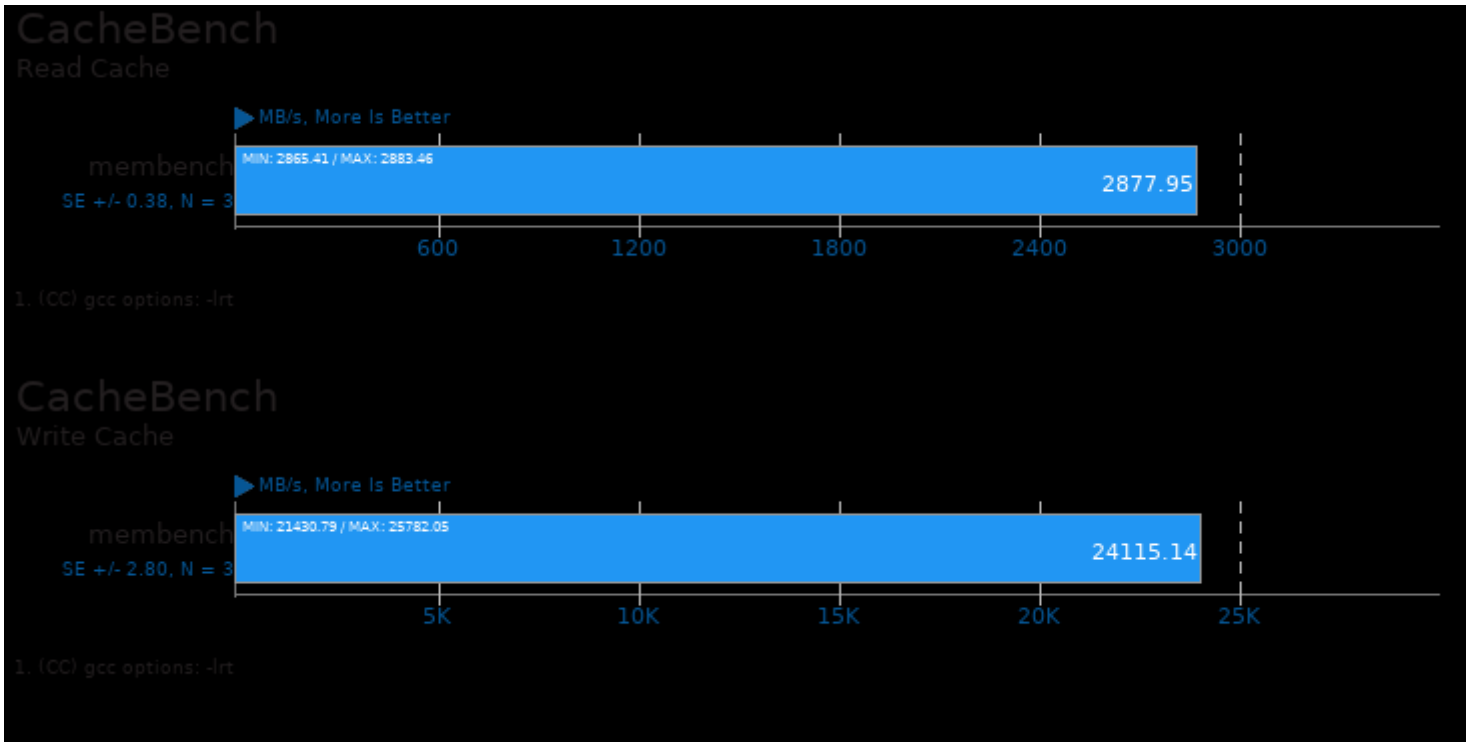
1. (CC) gcc options: -pthread

t-test1 2017-01-13

Threads: 2



1. (CC) gcc options: -pthread



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