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newramxmp1

AMD Ryzen 7 3700X 8-Core testing with a Gigabyte X570 AORUS MASTER (F11 BIOS) and Sapphire AMD Radeon RX 56/64 8GB on ManjaroLinux 20.0 via the Phoronix Test Suite.

Test Systems:

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Processor: AMD Ryzen 7 3700X 8-Core @ 3.60GHz (8 Cores / 16 Threads), Motherboard: Gigabyte X570 AORUS MASTER (F11 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 2000GB Sabrent Rocket 4.0 2TB + 1000GB CT1000MX500SSD1, Graphics: Sapphire AMD Radeon RX 56/64 8GB (1630/945MHz), Audio: AMD Vega 10 HDMI Audio, Monitor: S2719DGF + DELL U2715H, Network: Intel I211 + Realtek RTL8125 2.5GbE + Intel Wi-Fi 6 AX200

OS: ManjaroLinux 20.0, Kernel: 5.6.8-1-MANJARO (x86_64), Desktop: KDE Plasma 5.18.4, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 4.6 Mesa 20.0.6 (LLVM 10.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 4000x2560

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Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil - CPU Microcode: 0x8701013
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 STIBP: conditional RSB filling + tsx_async_abort: Not affected

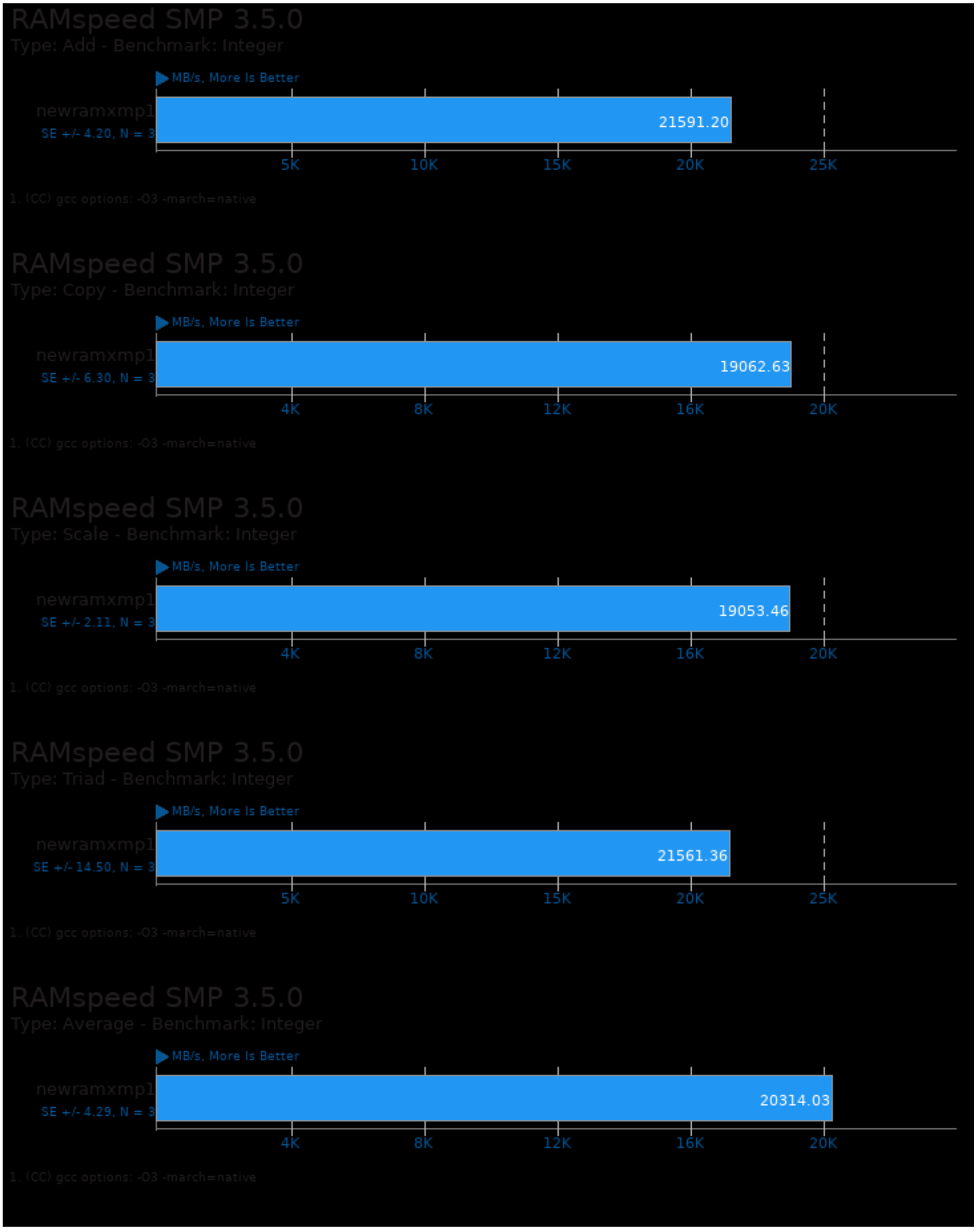
	newramxmp1
RAMspeed SMP - Add - Integer (MB/s)	21591
Standard Deviation	0%
RAMspeed SMP - Copy - Integer (MB/s)	19063
Standard Deviation	0.1%
RAMspeed SMP - Scale - Integer (MB/s)	19053
Standard Deviation	0%
RAMspeed SMP - Triad - Integer (MB/s)	21561
Standard Deviation	0.1%
RAMspeed SMP - Average - Integer (MB/s)	20314
Standard Deviation	0%
RAMspeed SMP - Add - Floating Point (MB/s)	21569
Standard Deviation	0.1%
RAMspeed SMP - Copy - Floating Point (MB/s)	19042
Standard Deviation	0.1%
RAMspeed SMP - Scale - Floating Point (MB/s)	19042
Standard Deviation	0.1%
RAMspeed SMP - Triad - Floating Point (MB/s)	21549
Standard Deviation	0%
RAMspeed SMP - Average - Floating Point (MB/s)	20274
Standard Deviation	0.1%
Stream - Copy (MB/s)	18025
Standard Deviation	0%
Stream - Scale (MB/s)	18024
Standard Deviation	0.2%
Stream - Triad (MB/s)	20085
Standard Deviation	0.3%
Stream - Add (MB/s)	20006
Standard Deviation	0%
Tinymembench - Standard Memcpy (MB/s)	8004
Standard Deviation	0.6%
Tinymembench - Standard Memset (MB/s)	12750
Standard Deviation	0.5%
MBW - Memory Copy - 1024 MiB (MiB/s)	13716
Standard Deviation	0.1%
MBW - M.C.F.B.S - 1024 MiB (MiB/s)	8033
Standard Deviation	0.8%
t-test1 - 1 (sec)	16.264
Standard Deviation	15.6%
t-test1 - 2 (sec)	6.777
Standard Deviation	2.9%
CacheBench - Read Cache (MB/s)	3036
Standard Deviation	0.6%

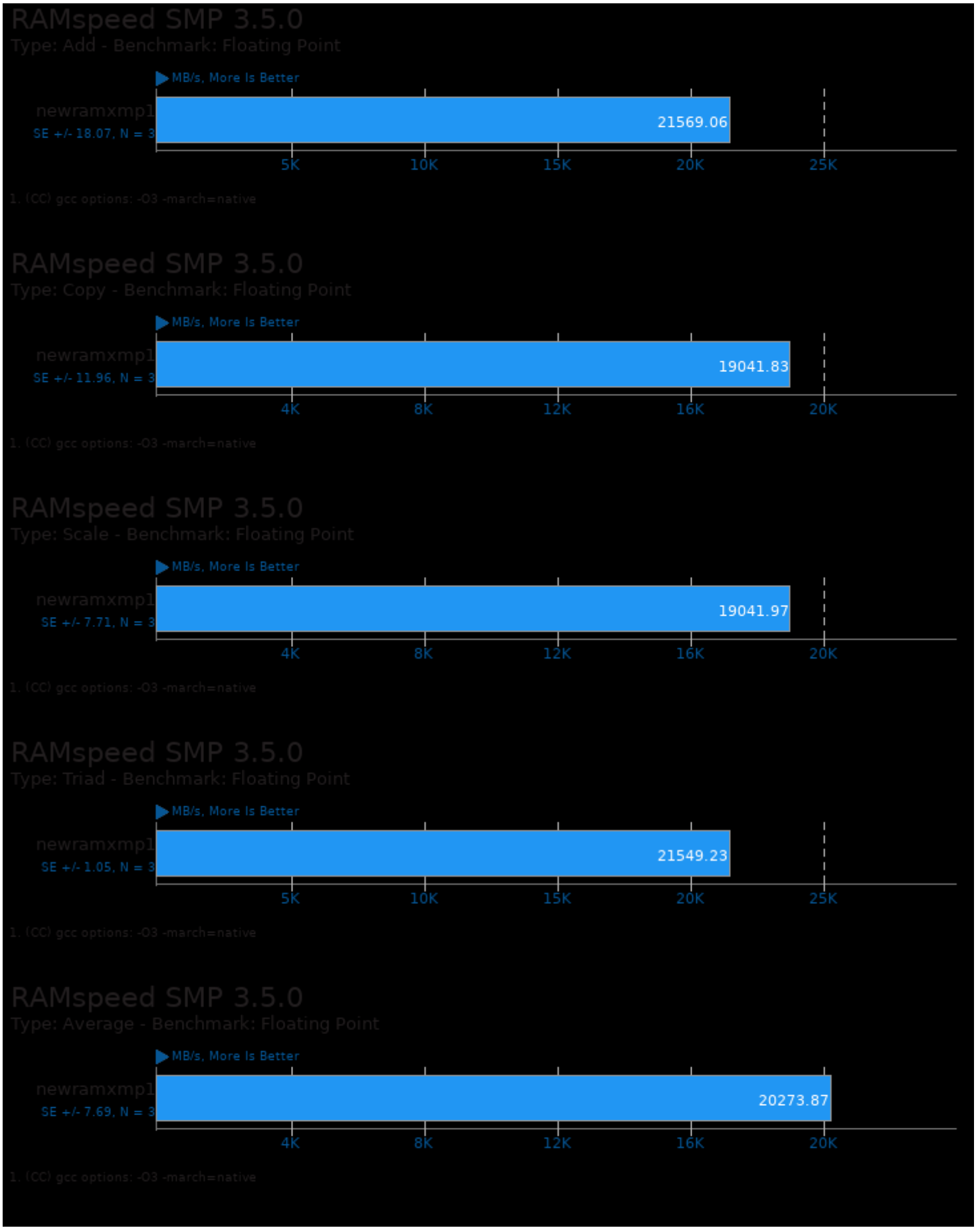
newramxmp1

CacheBench - Write Cache (MB/s) 31599

Standard Deviation 0.5%

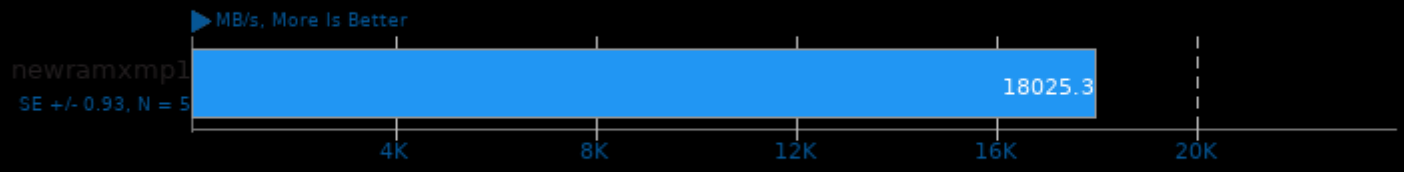
newramxmp1


RAMspeed SMP 3.5.0
Type: Add - Benchmark: Integer
MB/s, More Is Better
newramxmp1
SE +/- 4.20, N = 3
21591.20
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Copy - Benchmark: Integer
MB/s, More Is Better
newramxmp1
SE +/- 6.30, N = 3
19062.63
4K
8K
12K
16K
20K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Integer
MB/s, More Is Better
newramxmp1
SE +/- 2.11, N = 3
19053.46
4K
8K
12K
16K
20K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Integer
MB/s, More Is Better
newramxmp1
SE +/- 14.50, N = 3
21561.36
5K
10K
15K
20K
25K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Average - Benchmark: Integer
MB/s, More Is Better
newramxmp1
SE +/- 4.29, N = 3
20314.03
4K
8K
12K
16K
20K
1. (CC) gcc options: -O3 -march=native


RAMspeed SMP 3.5.0
Type: Add - Benchmark: Floating Point
MB/s, More Is Better
newramxmp1
SE +/- 18.07, N = 3
21569.06
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
newramxmp1
SE +/- 11.96, N = 3
19041.83
4K
8K
12K
16K
20K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Floating Point
MB/s, More Is Better
newramxmp1
SE +/- 7.71, N = 3
19041.97
4K
8K
12K
16K
20K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Floating Point
MB/s, More Is Better
newramxmp1
SE +/- 1.05, N = 3
21549.23
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
newramxmp1
SE +/- 7.69, N = 3
20273.87
4K
8K
12K
16K
20K
1. (CC) gcc options: -O3 -march=native

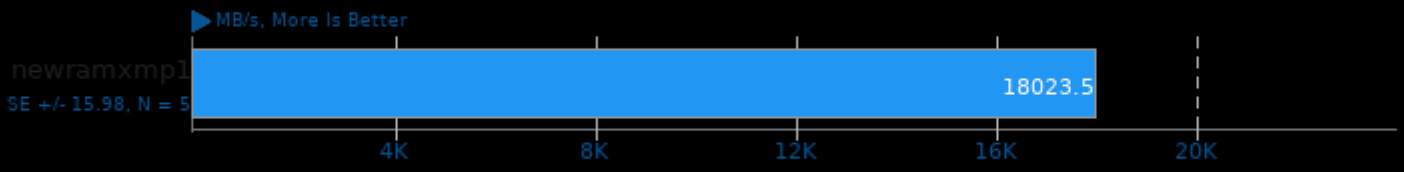
newramxmp1

Stream 2013-01-17
Type: Copy



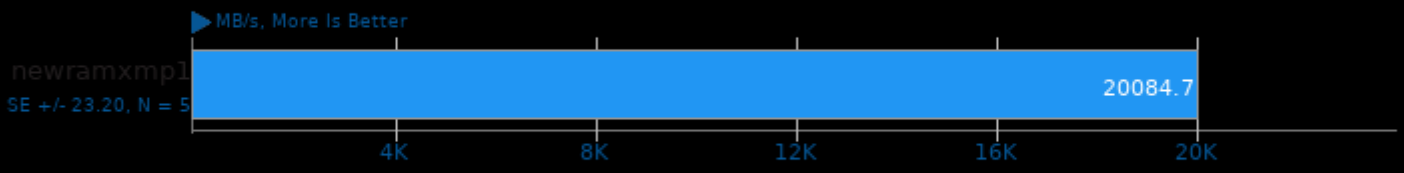
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Type: Scale



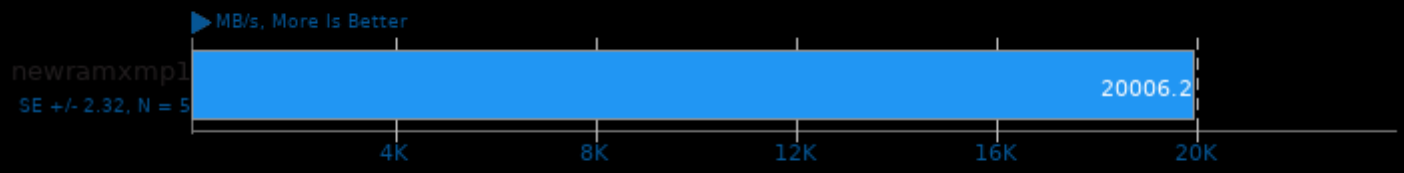
1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17
Type: Triad



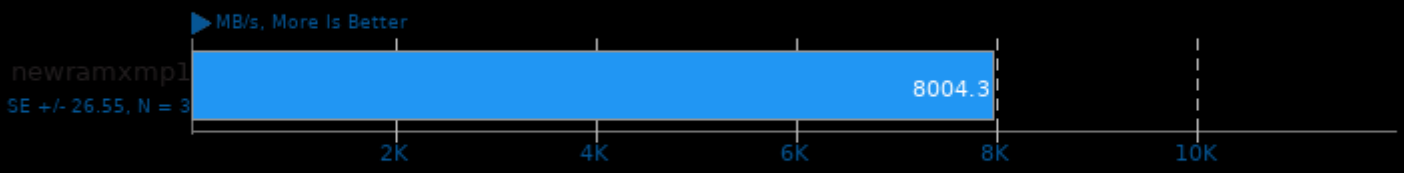
1. (CC) gcc options: -O3 -march=native -fopenmp

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

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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



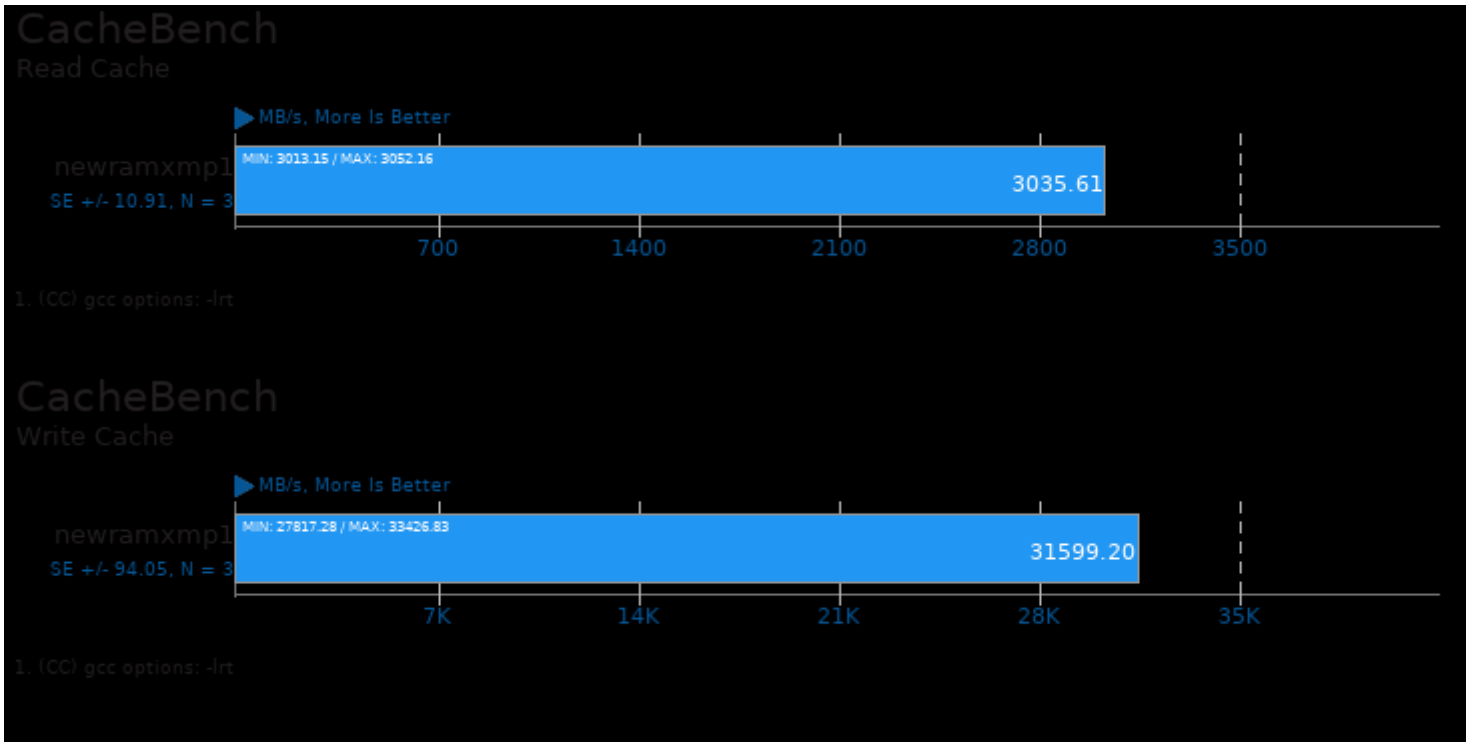
1. (CC) gcc options: -pthread

t-test1 2017-01-13

Threads: 2



1. (CC) gcc options: -pthread



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