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jhamby-pixel2013-ubuntu2004-memory

Intel Core i5-3427U testing with a GOOGLE Link v1.0 and Intel HD 4000 2GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

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Processor: Intel Core i5-3427U @ 2.80GHz (2 Cores / 4 Threads), Motherboard: GOOGLE Link v1.0, Chipset: Intel 3rd Gen Core DRAM, Memory: 4096MB, Disk: 32GB SanDisk SSD i100, Graphics: Intel HD 4000 2GB (1150MHz), Audio: Creative CA0132, Network: Qualcomm Atheros AR9462

OS: Ubuntu 20.04, Kernel: 5.4.0-18-lowlatency (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.7, Display Driver: modesetting 1.20.7, OpenGL: 4.2 Mesa 20.0.2, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 2560x1700

Environment Notes: CXXFLAGS="-O3 -pipe -march=native" CFLAGS="-O3 -pipe -march=native"
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch

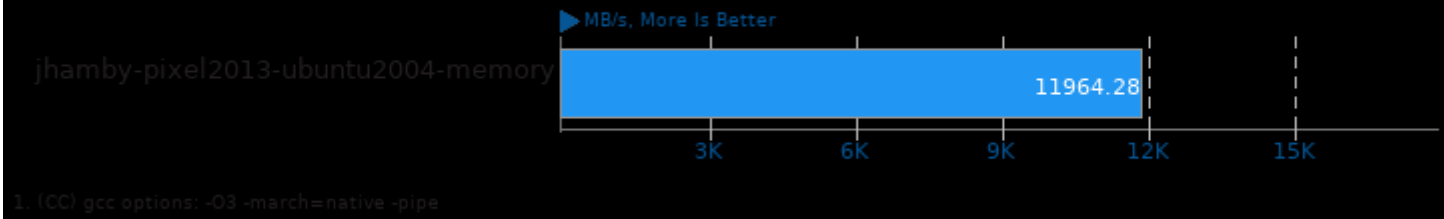
--enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --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: 0x21
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + tsx_async_abort: Not affected

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RAMspeed SMP - Add - Integer (MB/s)	11964
RAMspeed SMP - Copy - Integer (MB/s)	10864
RAMspeed SMP - Scale - Integer (MB/s)	10923
RAMspeed SMP - Triad - Integer (MB/s)	12117
RAMspeed SMP - Average - Integer (MB/s)	11405
RAMspeed SMP - Add - Floating Point (MB/s)	11637
RAMspeed SMP - Copy - Floating Point (MB/s)	10876
RAMspeed SMP - Scale - Floating Point (MB/s)	10922
RAMspeed SMP - Triad - Floating Point (MB/s)	11590
RAMspeed SMP - Average - Floating Point (MB/s)	9834
Stream - Copy (MB/s)	16553
Standard Deviation	0.2%
Stream - Scale (MB/s)	10520
Standard Deviation	1.1%
Stream - Triad (MB/s)	11218
Standard Deviation	0.7%
Stream - Add (MB/s)	11247
Standard Deviation	0.5%
Tinymembench - Standard Memcpy (MB/s)	7444
Standard Deviation	0.3%
Tinymembench - Standard Memset (MB/s)	18184
Standard Deviation	0.9%
MBW - Memory Copy - 1024 MiB (MiB/s)	6042
Standard Deviation	1.7%
MBW - M.C.F.B.S - 1024 MiB (MiB/s)	6027
Standard Deviation	3.9%
t-test1 - 1 (sec)	29.491
Standard Deviation	0.2%
t-test1 - 2 (sec)	10.553
Standard Deviation	0.3%
CacheBench - Read Cache (MB/s)	2354
Standard Deviation	0%
CacheBench - Write Cache (MB/s)	17362
Standard Deviation	0%

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RAMspeed SMP 3.5.0

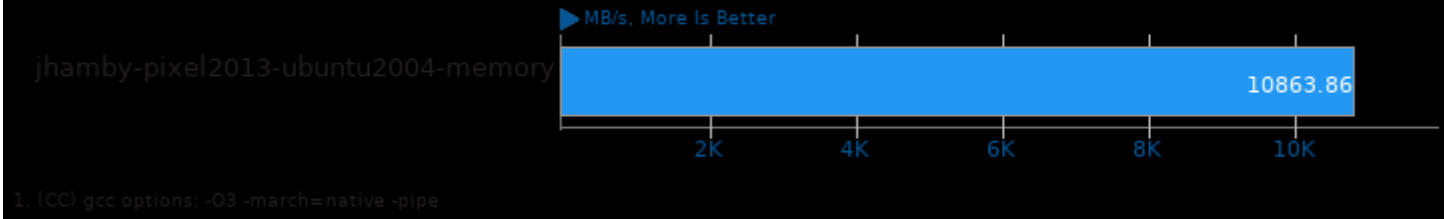
Type: Add - Benchmark: Integer



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

RAMspeed SMP 3.5.0

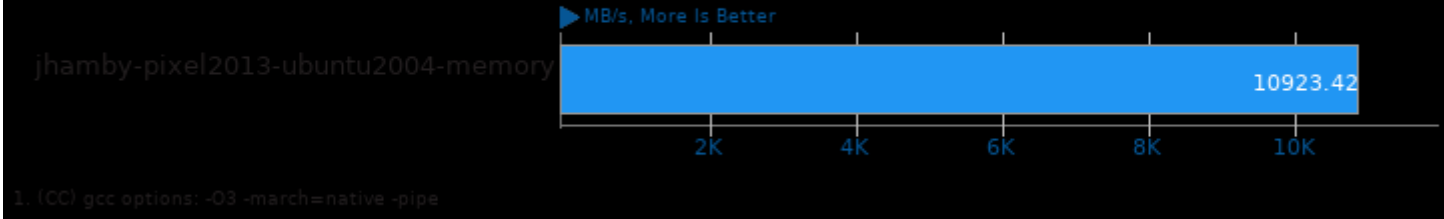
Type: Copy - Benchmark: Integer



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

RAMspeed SMP 3.5.0

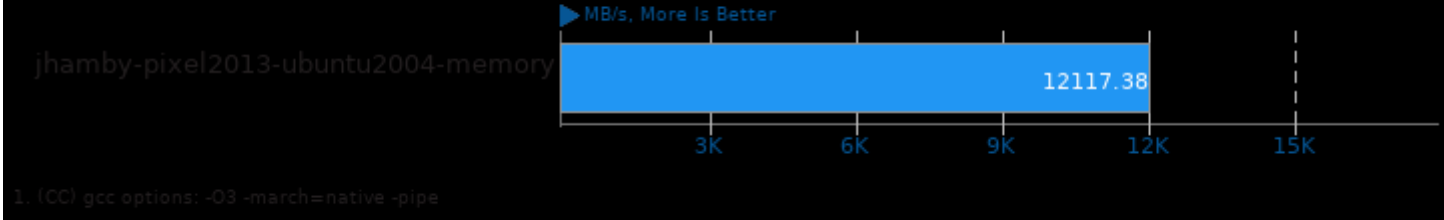
Type: Scale - Benchmark: Integer



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

RAMspeed SMP 3.5.0

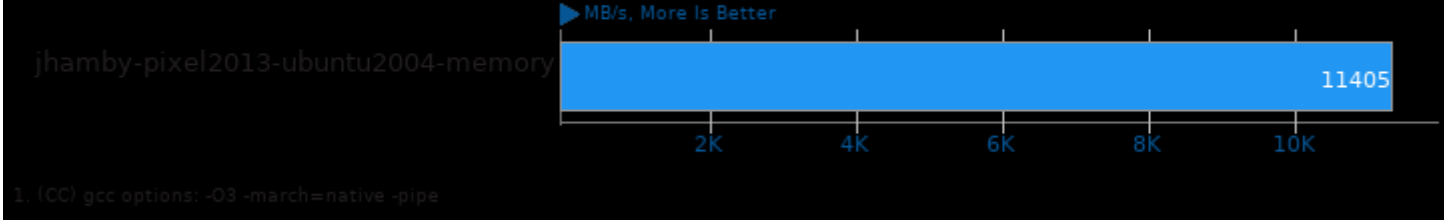
Type: Triad - Benchmark: Integer



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

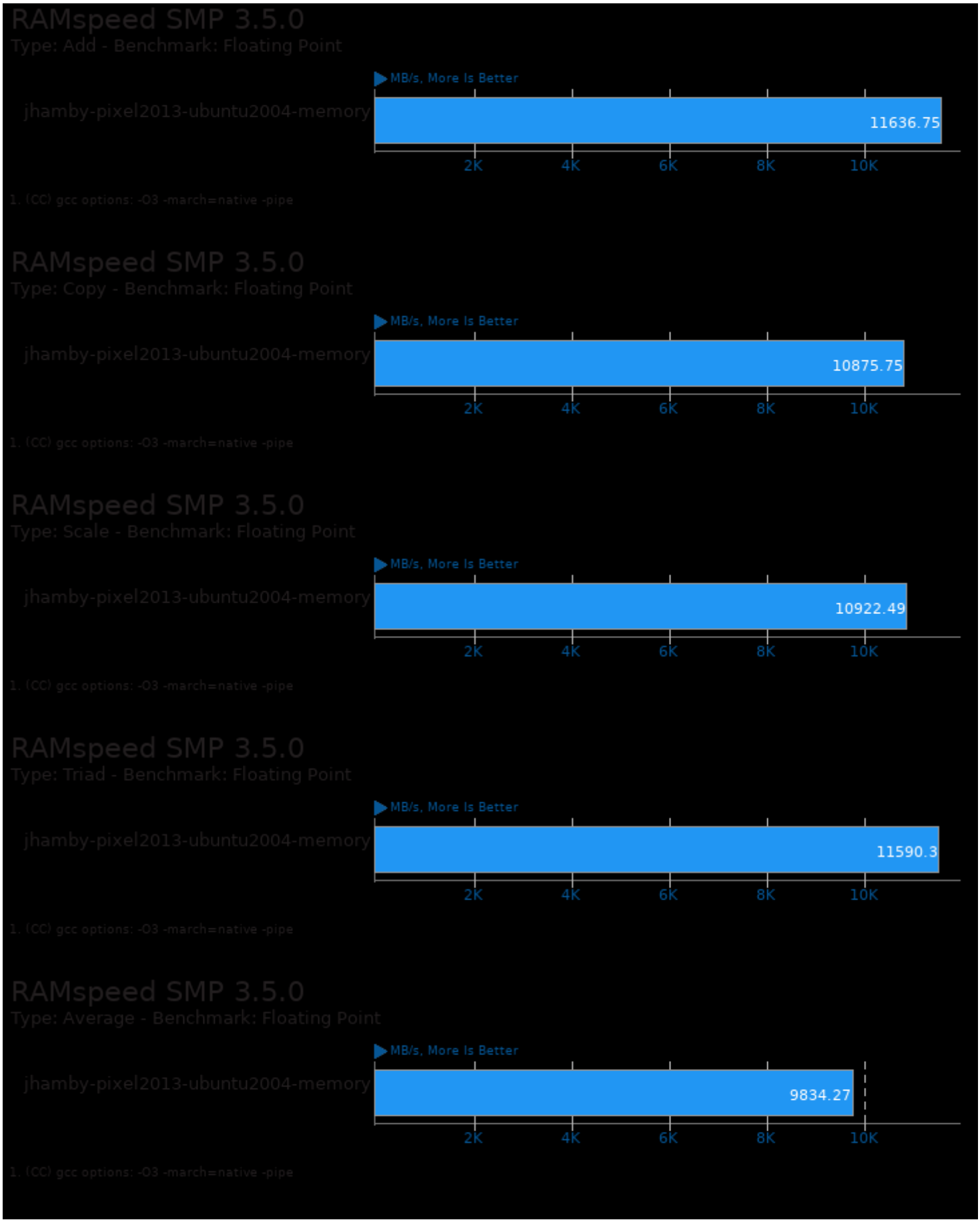
RAMspeed SMP 3.5.0

Type: Average - Benchmark: Integer



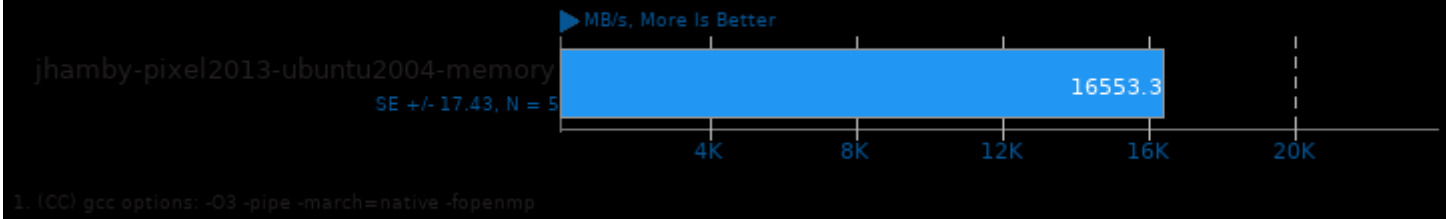
1. (CC) gcc options: -O3 -march=native -pipe

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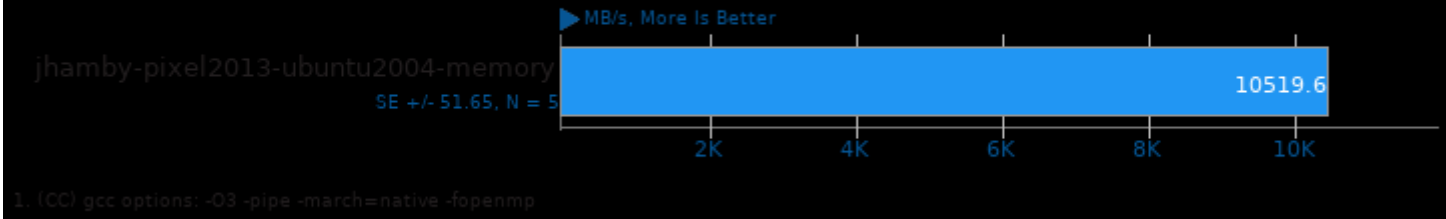
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Stream 2013-01-17
Type: Copy



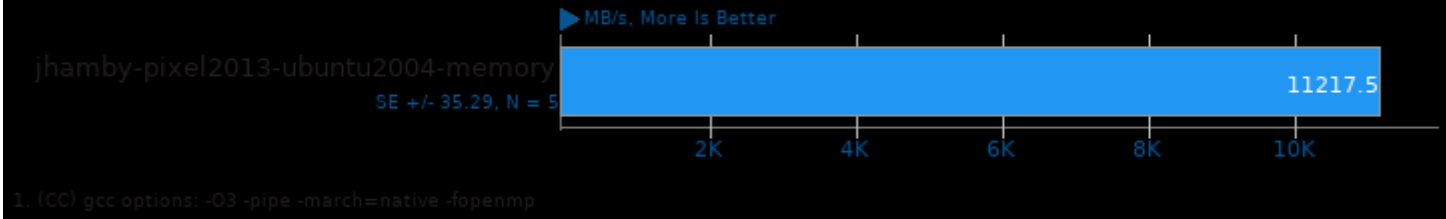
1. (CC) gcc options: -O3 -pipe -march=native -fopenmp

Stream 2013-01-17
Type: Scale



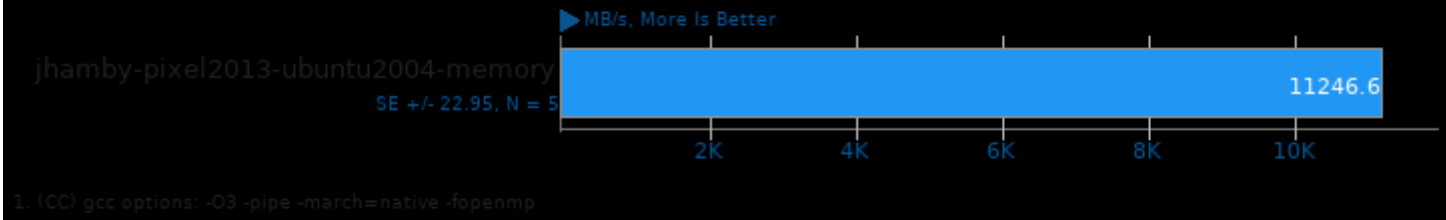
1. (CC) gcc options: -O3 -pipe -march=native -fopenmp

Stream 2013-01-17
Type: Triad



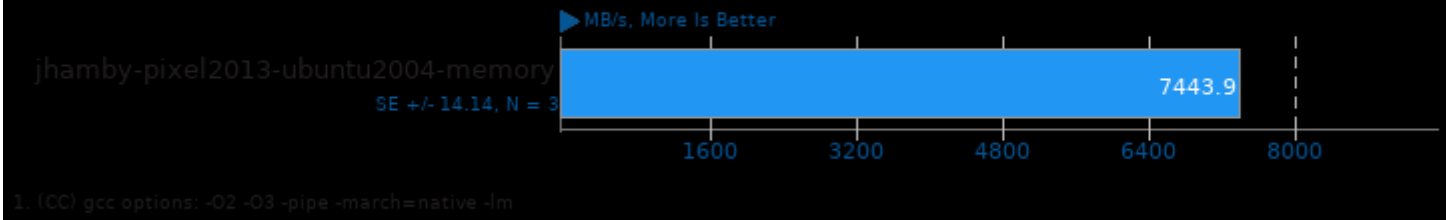
1. (CC) gcc options: -O3 -pipe -march=native -fopenmp

Stream 2013-01-17
Type: Add



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

Tinymembench 2018-05-28
Standard Memcpy

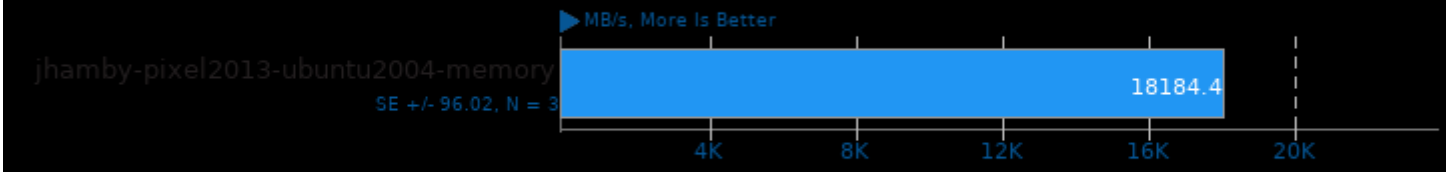


1. (CC) gcc options: -O2 -O3 -pipe -march=native -lm

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Tinymembench 2018-05-28

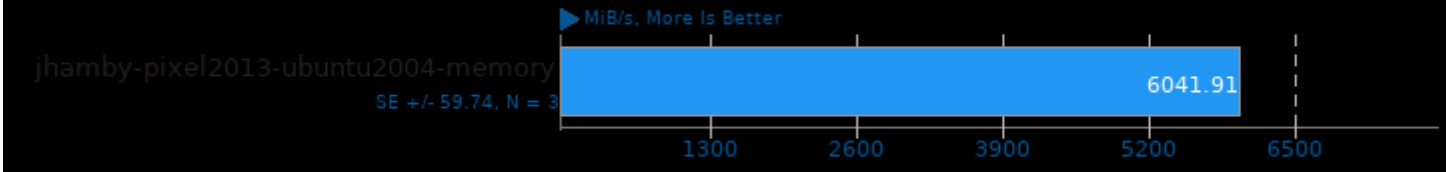
Standard Memset



1. (CC) gcc options: -O2 -O3 -pipe -march=native -lm

MBW 2018-09-08

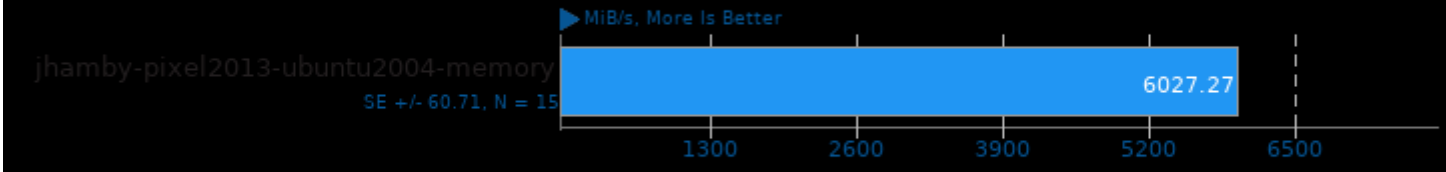
Test: Memory Copy - Array Size: 1024 MiB



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

MBW 2018-09-08

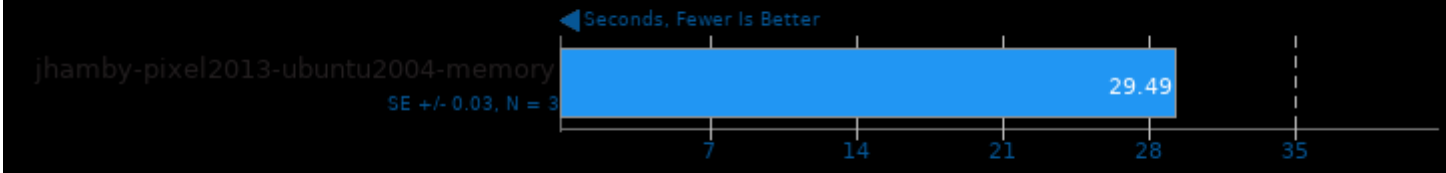
Test: Memory Copy, Fixed Block Size - Array Size: 1024 MiB



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

t-test1 2017-01-13

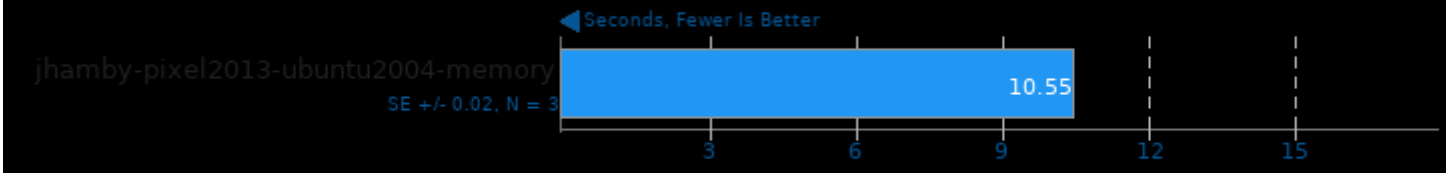
Threads: 1



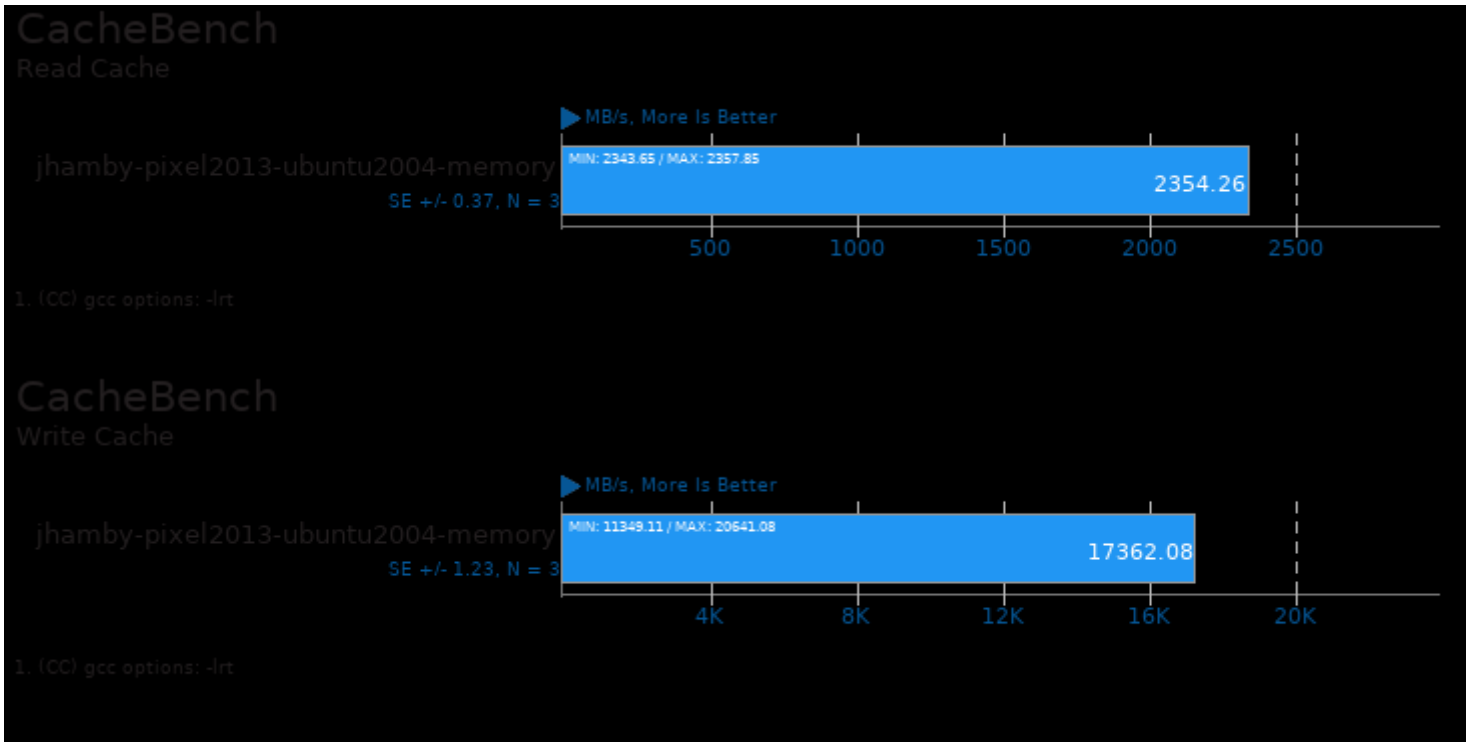
1. (CC) gcc options: -pthread -O3 -pipe -march=native

t-test1 2017-01-13

Threads: 2



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



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