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asdf

Intel Core i7-2630QM testing with a TOSHIBA PEQAA v1.00 (2.80 BIOS) and NVIDIA GeForce GT 540M 1GB on LinuxMint 19.3 via the Phoronix Test Suite.

Automated Executive Summary

perf had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (sdf) was 1.009x the speed of the slowest (comparision). perf was 0.998x the speed of sdf and comparision was 0.994x the speed of perf.

Test Systems:

sdf

comparision

perf

Processor: Intel Core i7-2630QM @ 2.90GHz (4 Cores / 8 Threads), Motherboard: TOSHIBA PEQAA v1.00 (2.80 BIOS), Chipset: Intel 2nd Generation Core DRAM, Memory: 16GB, Disk: 500GB Samsung SSD 850 + 640GB TOSHIBA MK6476GS, Graphics: NVIDIA GeForce GT 540M 1GB (670/896MHz), Audio: Realtek ALC269VB, Network: Realtek RTL8111/8168/8411 + Intel 7260

OS: LinuxMint 19.3, Kernel: 5.3.0-40-generic (x86_64), Desktop: Cinnamon 4.4.8, Display Server: X Server 1.20.5, Display Driver: NVIDIA 390.116, OpenGL: 4.6.0, Compiler: GCC 7.5.0, File-System: ext4, Screen Resolution: 1366x768

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

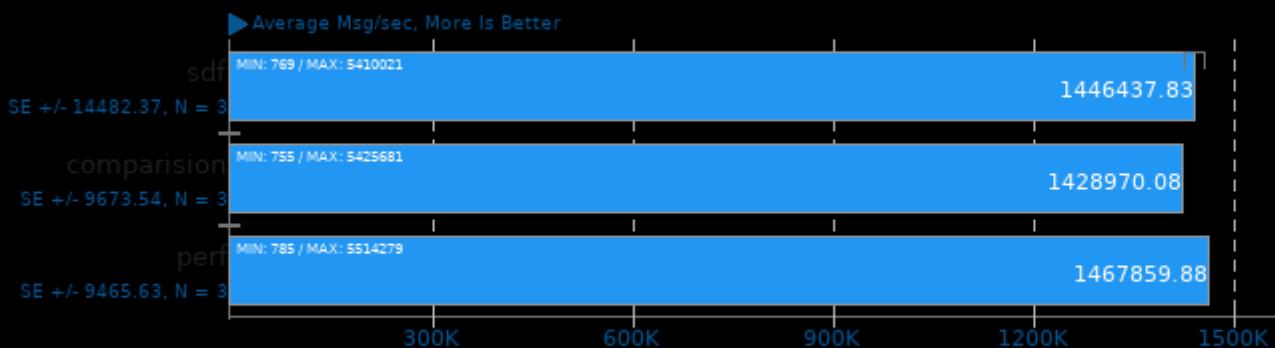
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x2f

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

	sdf	comparision	perf
Intel MPI Benchmarks - IMB-P2P PingPong	1446438 (Msg/sec)	1428970	1467860
Normalized	98.54%	97.35%	100%
Standard Deviation	1.7%	1.2%	1.1%
Intel MPI Benchmarks - IMB-MPI1 Exchange	6491 (Mbytes/sec)	6340	6297
Normalized	100%	97.69%	97.01%
Standard Deviation	0.8%	6.4%	7%
Intel MPI Benchmarks - IMB-MPI1 Exchange	539.57 (usec)	536.70	540.09
Normalized	99.47%	100%	99.37%
Standard Deviation	1.1%	2.3%	2.1%
Intel MPI Benchmarks - IMB-MPI1 PingPong	4863 (Mbytes/sec)	4789	4903
Normalized	99.19%	97.68%	100%
Standard Deviation	0.6%	1%	2.6%
Intel MPI Benchmarks - IMB-MPI1 Sendrecv	4430 (Mbytes/sec)	4423	4434
Normalized	99.91%	99.76%	100%
Standard Deviation	2.9%	0.9%	4.8%
Intel MPI Benchmarks - IMB-MPI1 Sendrecv	282.06 (usec)	283.32	284.01
Normalized	100%	99.56%	99.31%
Standard Deviation	0.6%	2.7%	1.3%

Intel MPI Benchmarks 2019.3

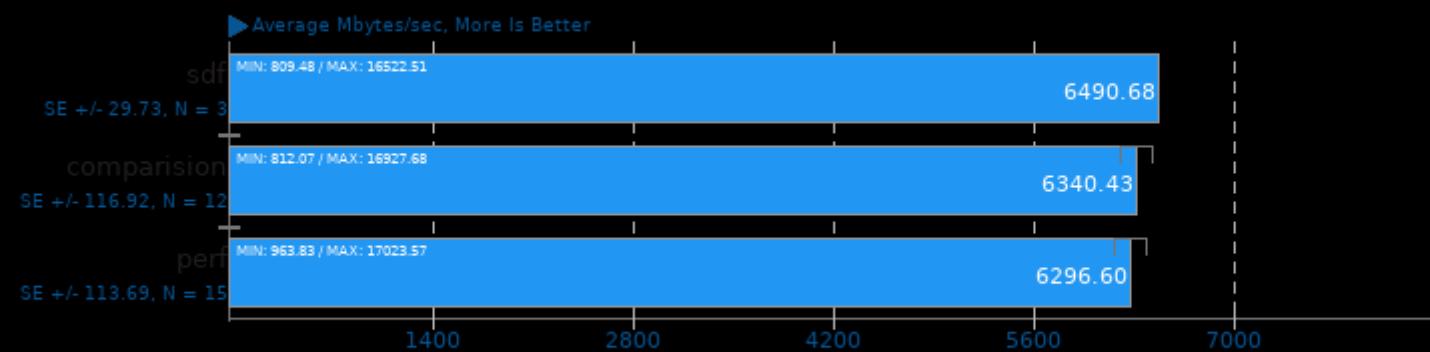
Test: IMB-P2P PingPong



1. (CXX) g++ options: -O0 -pedantic -fopenmp -pthread -lmpi_cxx -lmpi

Intel MPI Benchmarks 2019.3

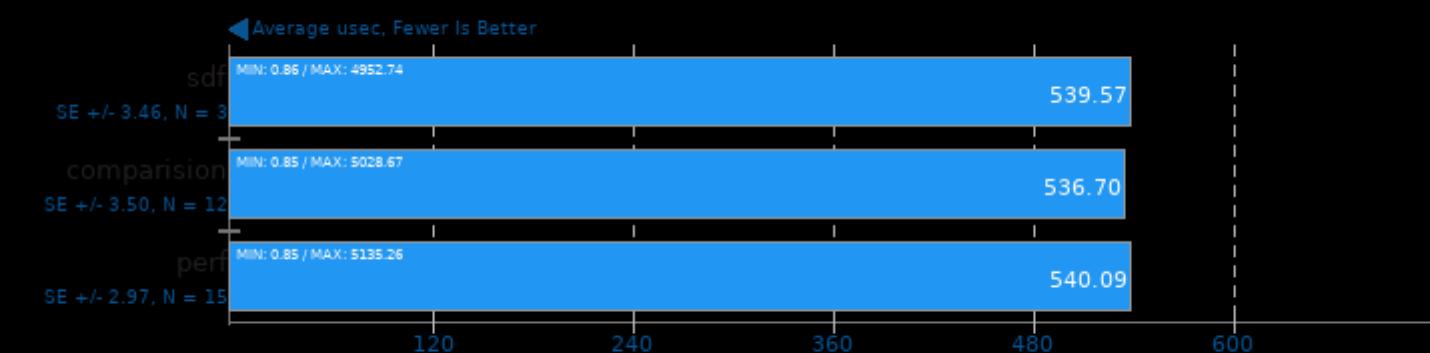
Test: IMB-MPI1 Exchange



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Intel MPI Benchmarks 2019.3

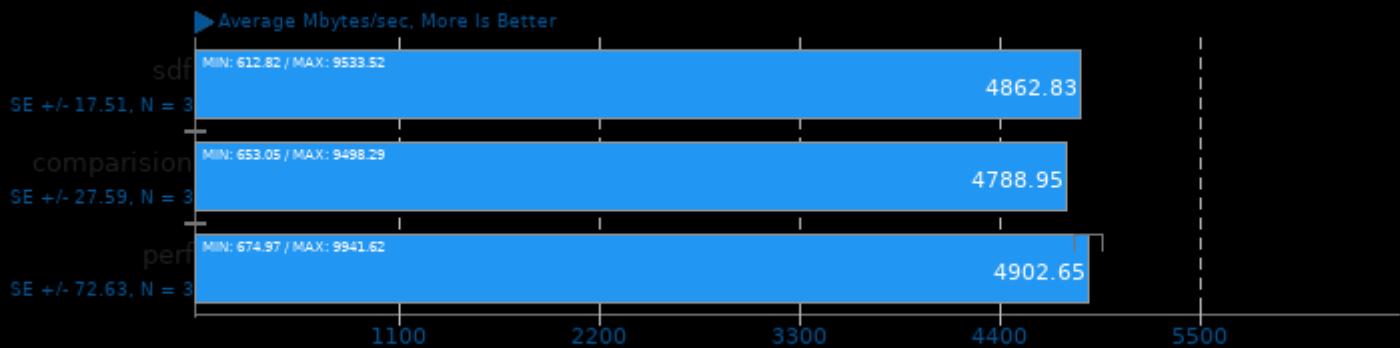
Test: IMB-MPI1 Exchange



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Intel MPI Benchmarks 2019.3

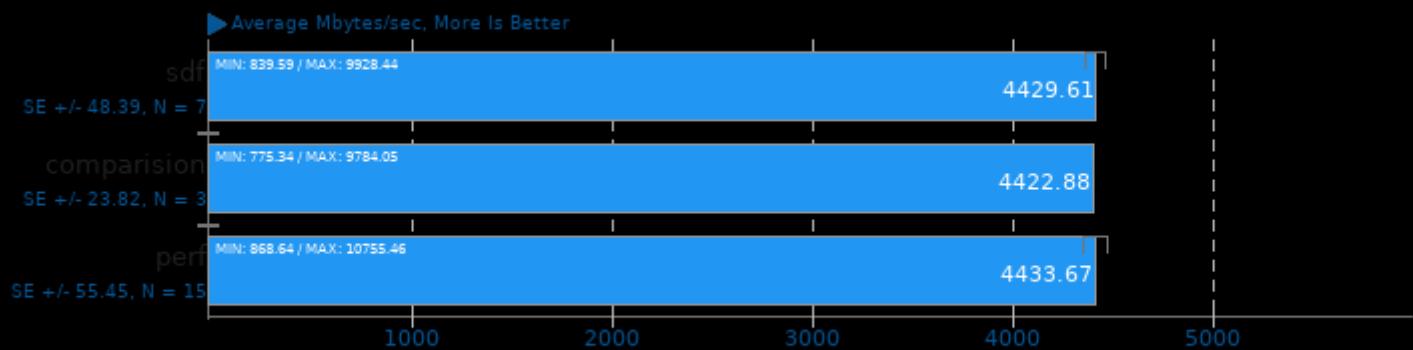
Test: IMB-MPI1 PingPong



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Intel MPI Benchmarks 2019.3

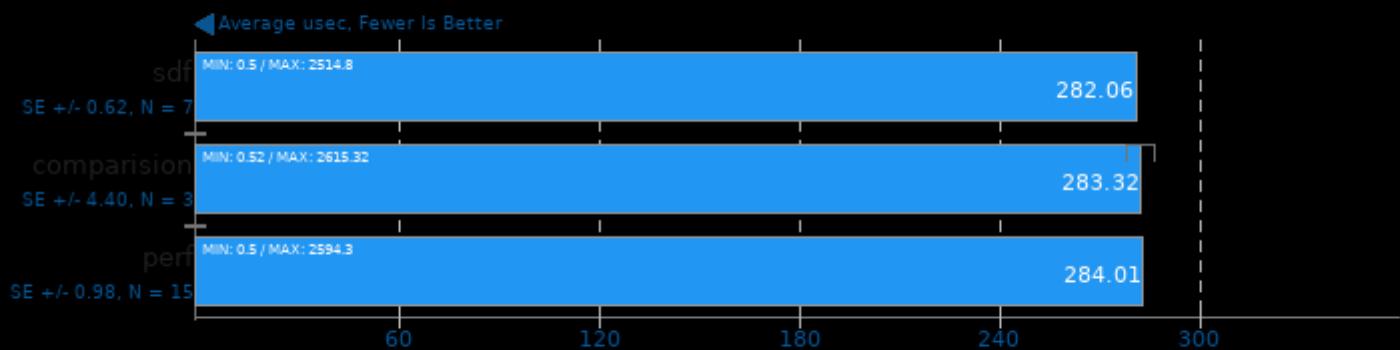
Test: IMB-MPI1 Sendrecv



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Intel MPI Benchmarks 2019.3

Test: IMB-MPI1 Sendrecv



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