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ARMv8 Neoverse-N1 testing with a GIGABYTE MP32-AR0-00 v01000100 (F13 SCP: 1.4.20210223 BIOS) and ASPEED on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

Ubuntu_Altra_Q80_30

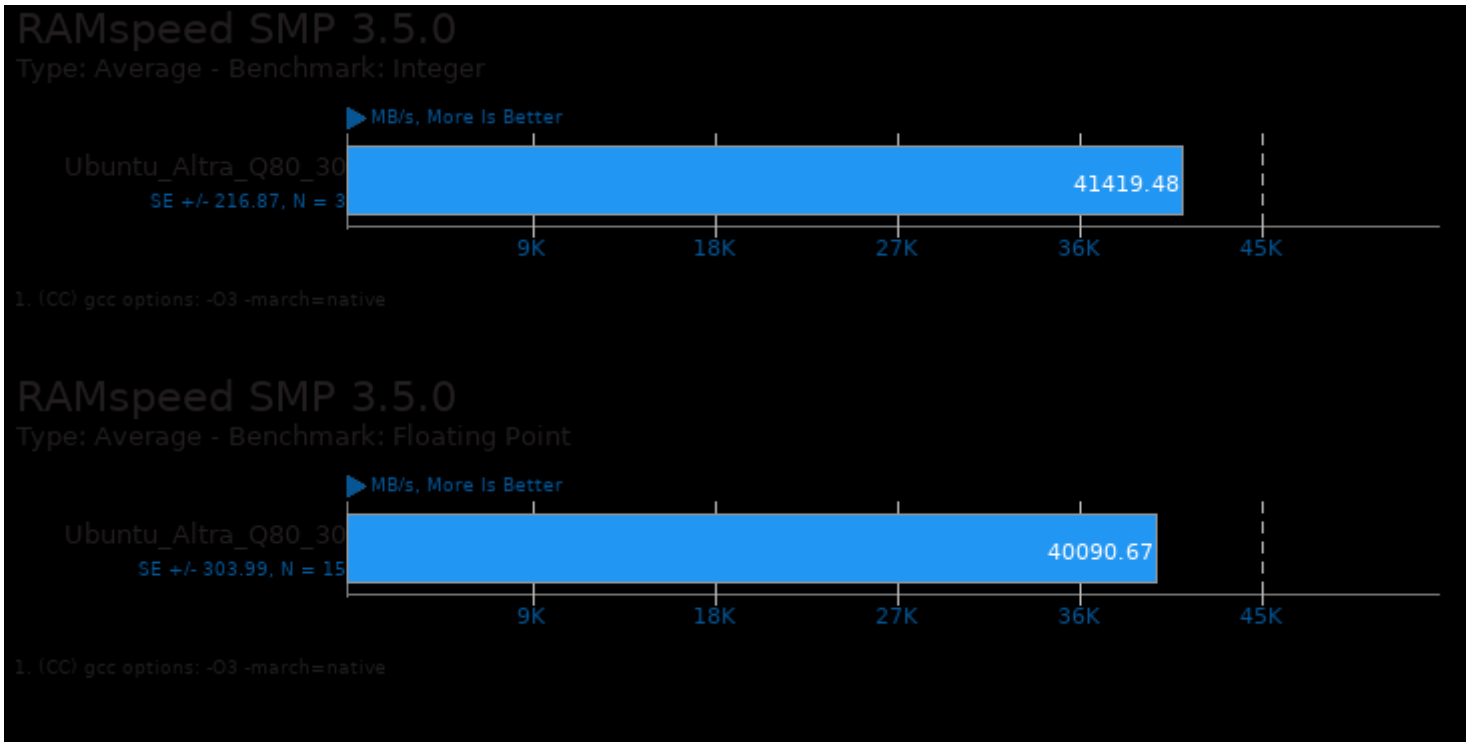
Processor: ARMv8 Neoverse-N1 @ 3.00GHz (80 Cores), Motherboard: GIGABYTE MP32-AR0-00 v01000100 (F13 SCP: 1.4.20210223 BIOS), Chipset: Ampere Computing LLC Device e100, Memory: 16 x 16384 MB DDR4-3200MT/s Samsung M393A2K43DB3-CWE, Disk: 2 x Samsung SSD 980 PRO 500GB + 2 x 32GB V4-CT032V4SSD2, Graphics: ASPEED, Monitor: HL229DPB, Network: 2 x Intel I350

OS: Ubuntu 20.04, Kernel: 5.4.0-77-generic (aarch64), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug

--enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: cppc_cpufreq performance
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	Ubuntu_Altra_Q80_30
RAMspeed SMP - Average - Integer (MB/s)	41419
Standard Deviation	0.9%
RAMspeed SMP - Average - Floating Point (MB/s)	40091
Standard Deviation	2.9%



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