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7713-lammps

2 x AMD EPYC 7713 64-Core testing with a Inspur 4.02.06 and ASPEED 40GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

2 x AMD EPYC 7713 64-Core

Processor: 2 x AMD EPYC 7713 64-Core @ 2.00GHz (128 Cores / 256 Threads), Motherboard: Inspur 4.02.06, Chipset: AMD Starship/Matisse, Memory: 16 x 64 GB DDR4-3200MT/s HMAA8GR7AJR4N-XN, Disk: 2 x 3841GB SAMSUNG MZQLB3T8HALS-00003 + 2 x 2000GB INTEL SSDPE2KX020T8, Graphics: ASPEED 40GB, Network: 4 x Intel 82580 + 2 x Intel X710 for 10GbE SFP+ + 2 x Intel 82599ES 10-Gigabit SFI/SFP+

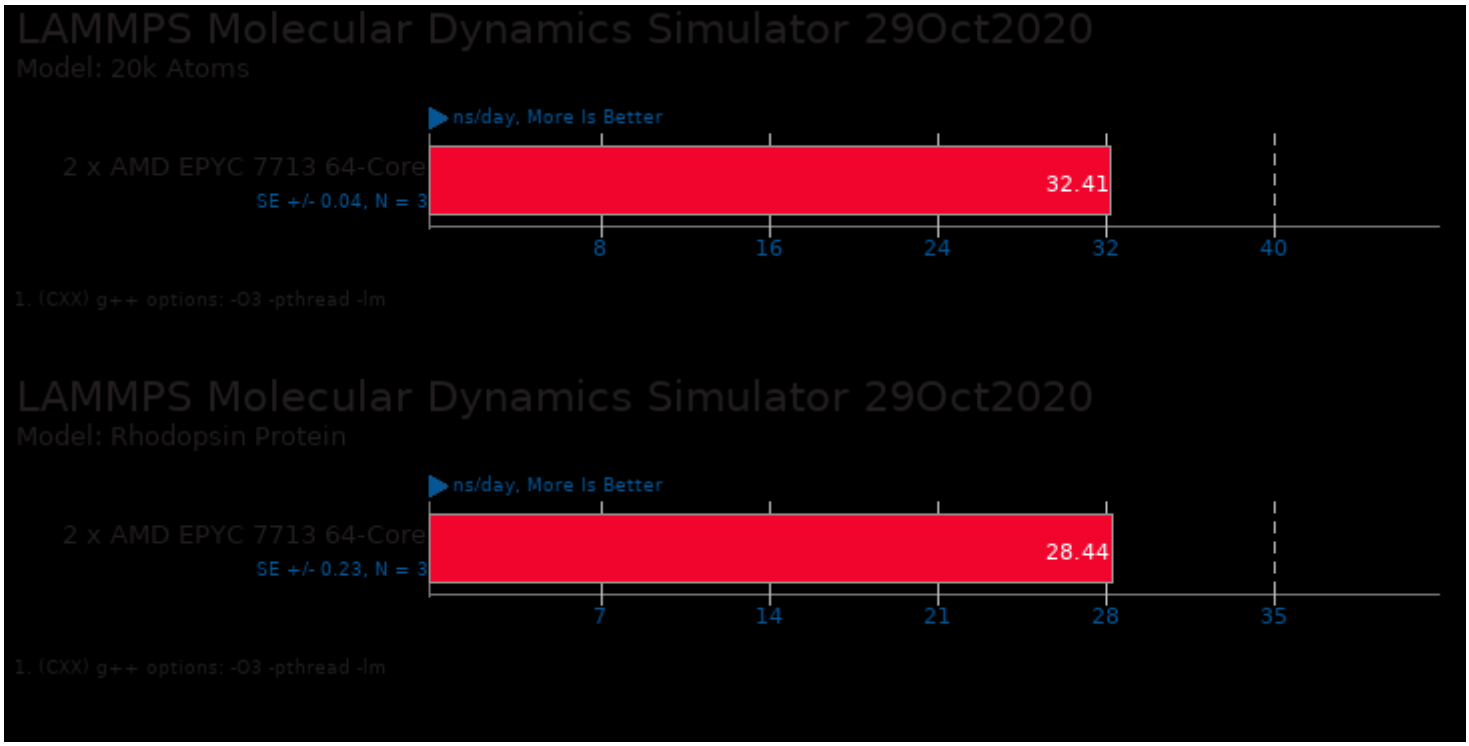
OS: Ubuntu 20.04, Kernel: 5.11.0-40-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Display Driver: NVIDIA, Vulkan: 1.2.186, Compiler: GCC 9.3.0 + CUDA 11.2, File-System: ext4, Screen Resolution: 1024x768

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

--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: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0xa001137
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	2 x AMD EPYC 7713 64-Core
LAMMPS Molecular Dynamics Simulator - 20k Atoms (ns/day)	32.407
Standard Deviation	0.2%
LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein	28.443
Standard Deviation	1.4%

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 17:56.