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t72-qe-test.tex

2 x Intel Xeon Gold 6238R testing with a ASUS WS-C621E-SAGE (6201 BIOS) and ASPEED on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

t72

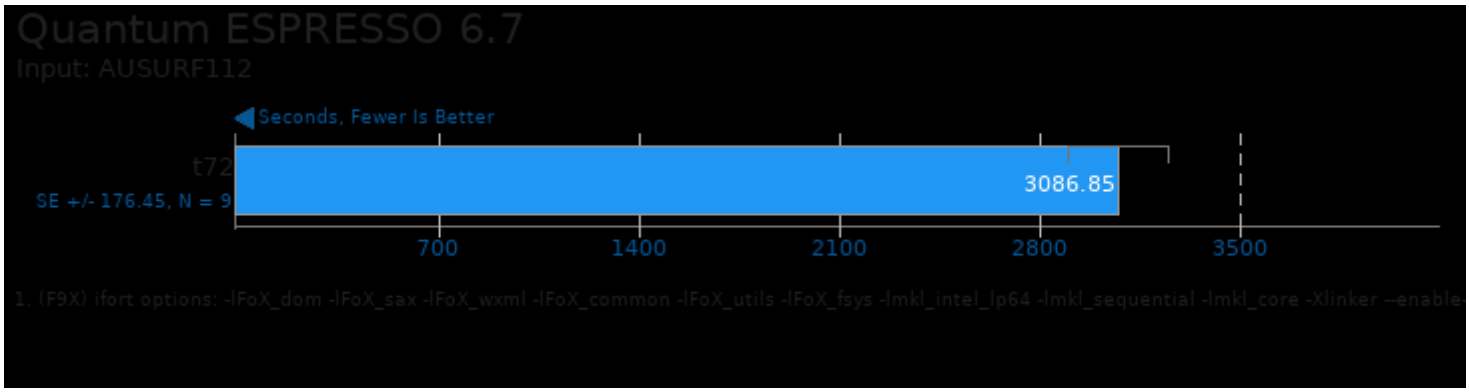
Processor: 2 x Intel Xeon Gold 6238R @ 4.00GHz (56 Cores / 112 Threads), Motherboard: ASUS WS-C621E-SAGE (6201 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 378GB, Disk: 2000GB Samsung SSD 970 EVO Plus 2TB, Graphics: ASPEED, Audio: Realtek ALC1220, Network: 2 x Intel I210

OS: Ubuntu 20.04, Kernel: 5.4.0-70-generic (x86_64), Compiler: GCC 9.3.0 + Intel oneAPI DPC++ Compiler 2021.1 (2020.8.0.0827) + ICC, File-System: nfs, 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: intel_pstate powersave - CPU Microcode: 0x5003003
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of TSX disabled

	t72
Quantum ESPRESSO - AUSURF112 (sec)	3087
Standard Deviation	17.1%



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