kernelbenchexperimental

AMD Ryzen 9 5950X 16-Core testing with a ASUS ROG STRIX B550-F GAMING WIFI II (3002 BIOS) and llvmpipe on Debian 12 via the Phoronix Test Suite.

Test Systems:

experimental

control

Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG STRIX B550-F GAMING WIFI II (3002 BIOS), Chipset: AMD Starship/Matisse, Memory: 2 x 32 GB DDR4-3200MT/s Corsair CMK64GX4M2E3200C16, Disk: 2048GB SOLIDIGM SSDPFKKW020X7 + 1000GB USB 3.2 Device, Graphics: llvmpipe, Audio: NVIDIA GA104 HD Audio, Monitor: LEN T24i-20, Network: Intel I225-V + MEDIATEK MT7921K

OS: Debian 12, Kernel: 6.9.8-wss-extension (x86_64), Desktop: GNOME Shell 43.9, Display Server: X Server, OpenGL: 4.5 Mesa 22.3.6 (LLVM 15.0.6 256 bits), Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 1920x1080

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Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-defaulted --enable-offload-targets=nvptx-none=/build/gcc-12-bTRWOB/gcc-12-12.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-12-bTRWOB/gcc-12-12.2.0/debian/tmp-gcn/usr --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
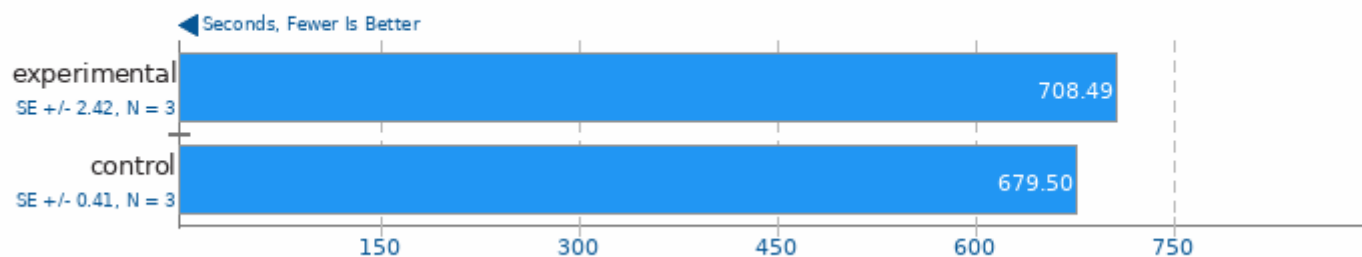
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa20120a

Security Notes: gather_data_sampling: Not affected + itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + reg_file_data_sampling: Not affected + retbleed: Not affected + spec_rstack_overflow: Vulnerable: Safe RET no microcode + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines; IBPB: conditional; IBRS_FW; STIBP: always-on; RSB filling; PBRSB-eIBRS: Not affected; BHI: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	experimental	control
Timed Linux Kernel Compilation - allmodconfig (sec)	**708.486**	**679.499**
Normalized	95.91%	100%
Standard Deviation	0.6%	0.1%

Timed Linux Kernel Compilation 5.18
Build: allmodconfig

Seconds, Fewer Is Better

experimental
SE +/- 2.42, N = 3
708.49

control
SE +/- 0.41, N = 3
679.50

This file was automatically generated via the Phoronix Test Suite benchmarking software on Tuesday, 13 August 2024 08:03.