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stessng-1

AMD Ryzen 7 3800X 8-Core testing with a ASUS ROG CROSSHAIR VIII HERO (3801 BIOS) and Sapphire AMD Radeon RX 56/64 8GB on Gentoo/Linux via the Phoronix Test Suite.

Test Systems:

3800X 5.14.7 BMQ

Processor: AMD Ryzen 7 3800X 8-Core @ 3.90GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3801 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 480GB KINGSTON SA1000M8480G + 500GB Seagate ST3500418AS + 240GB SanDisk SDSSDA24 + 1000GB Western Digital WD1003FZEX-0, Graphics: Sapphire AMD Radeon RX 56/64 8GB (1590/800MHz), Audio: AMD Vega 10 HDMI Audio, Monitor: MSI MAG272QR, Network: Realtek RTL8125 2.5GbE + Intel I211

OS: Gentoo/Linux, Kernel: 5.14.7-gentoo-clang-lto-prjc (x86_64), Desktop: KDE Plasma 5.22.5, Display Server: X Server 1.20.13 + Wayland, OpenGL: 4.6 Mesa 21.2.2 (LLVM 12.0.1), OpenCL: OpenCL 2.0 AMD-APP (3314.0), Vulkan: 1.2.182, Compiler: GCC 11.2.0 + Clang 12.0.1, File-System: btrfs, Screen Resolution: 2560x1440

Kernel Notes: amdgpu.ppfeaturemask=0xffffffff - Transparent Huge Pages: madvise
Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/11.2.0 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/11.2.0 --disable-esp --disable-fixed-point --disable-isl-version-check --disable-libada --disable-libssp --disable-libunwind-exceptions --disable-libvtv --disable-systemtap --disable-valgrind-annotations --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-languages=c,c++,fortran --enable-libgomp --enable-libstdcxx-time --enable-lto --enable-multilib --enable-nls --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86_64-pc-linux-gnu/11.2.0/include --mandir=/usr/share/gcc-data/x86_64-pc-linux-gnu/11.2.0/man --with-build-config=bootstrap-lto --with-isl --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86_64-pc-linux-gnu/11.2.0/python --without-zstd
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8701021
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 STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

3800X 5.14.7 CFS

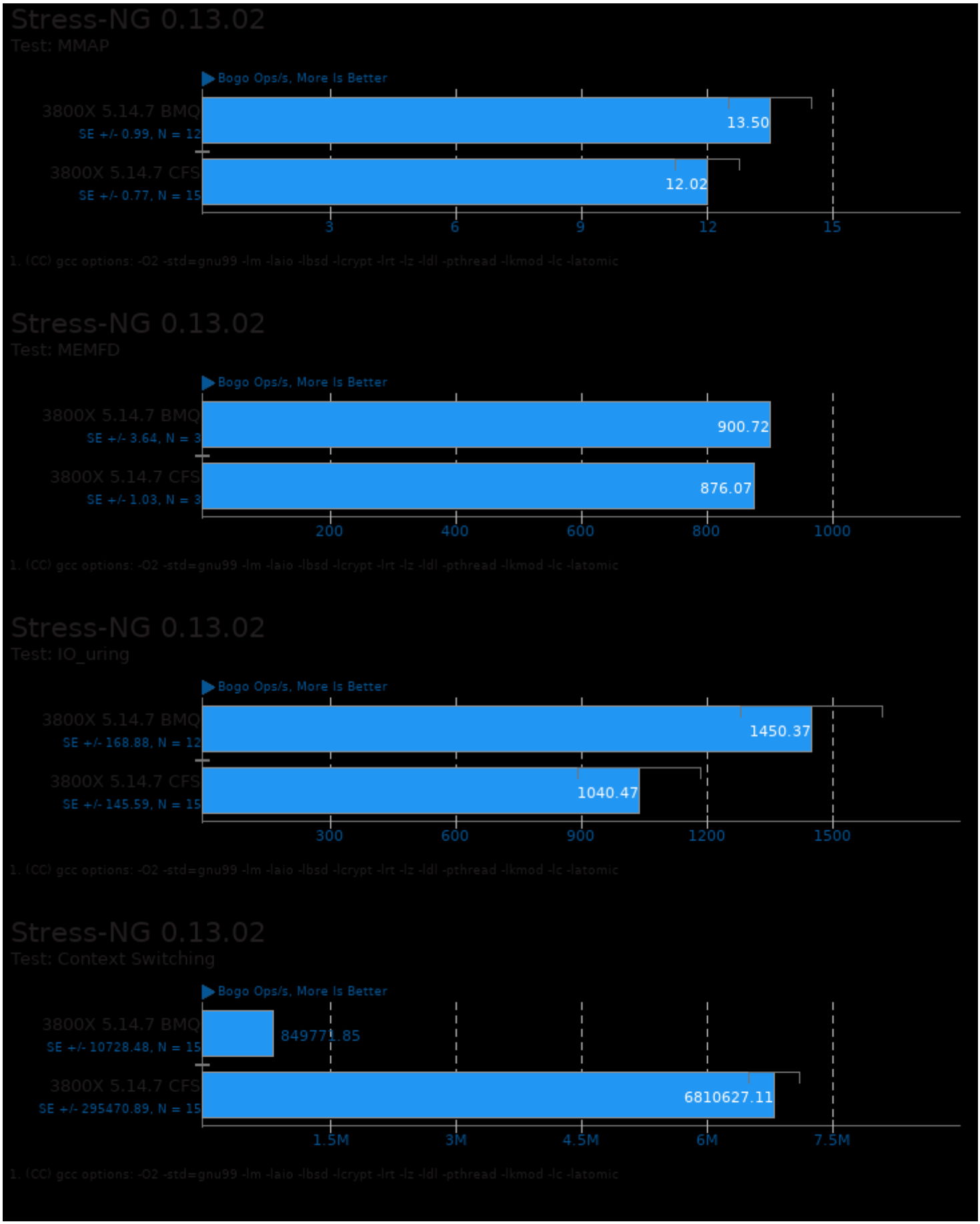
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	3800X 5.14.7 BMQ	3800X 5.14.7 CFS
Stress-NG - MMAP (Bogo Ops/s)	**13.50**	**12.02**
Normalized	100%	89.04%
Standard Deviation	25.3%	25%
Stress-NG - MEMFD (Bogo Ops/s)	**900.72**	**876.07**
Normalized	100%	97.26%
Standard Deviation	0.7%	0.2%
Stress-NG - IO_uring (Bogo Ops/s)	**1450**	**1040**
Normalized	100%	71.74%
Standard Deviation	40.3%	54.2%
Stress-NG - Context Switching (Bogo Ops/s)	**849772**	**6810627**
Normalized	12.48%	100%
Standard Deviation	4.9%	16.8%

stessng-1


Stress-NG 0.13.02
Test: MMAP
Bogo Ops/s, More Is Better
3800X 5.14.7 BMQ
SE +/- 0.99, N = 12
13.50
3800X 5.14.7 CFS
SE +/- 0.77, N = 15
12.02
3
6
9
12
15
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lkmod -lc -latomic
Stress-NG 0.13.02
Test: MEMFD
Bogo Ops/s, More Is Better
3800X 5.14.7 BMQ
SE +/- 3.64, N = 3
900.72
3800X 5.14.7 CFS
SE +/- 1.03, N = 3
876.07
200
400
600
800
1000
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lkmod -lc -latomic
Stress-NG 0.13.02
Test: IO_uring
Bogo Ops/s, More Is Better
3800X 5.14.7 BMQ
SE +/- 168.88, N = 12
1450.37
3800X 5.14.7 CFS
SE +/- 145.59, N = 15
1040.47
300
600
900
1200
1500
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lkmod -lc -latomic
Stress-NG 0.13.02
Test: Context Switching
Bogo Ops/s, More Is Better
3800X 5.14.7 BMQ
SE +/- 10728.48, N = 15
849771.85
3800X 5.14.7 CFS
SE +/- 295470.89, N = 15
6810627.11
1.5M
3M
4.5M
6M
7.5M
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lkmod -lc -latomic

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 10:56.