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AMD Ryzen 9 5900X 12-Core testing with a ASRock X570 PG Velocita (P1.80 BIOS) and Sapphire AMD Radeon R7 370 R9 270X/370X on Pop 21.04 via the Phoronix Test Suite.

Test Systems:

AMD Ryzen 9 5900X 12-Core - Sapphire AMD Radeon R7

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: ASRock X570 PG Velocita (P1.80 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1024GB Viper VP4300 1TB + 124GB Ultra, Graphics: Sapphire AMD Radeon R7 370 R9 270X/370X, Audio: AMD Oland/Hainan/Cape, Monitor: SAMSUNG, Network: Realtek Killer E3000 2.5GbE + Intel Wi-Fi 6 AX200

OS: Pop 21.04, Kernel: 5.11.0-7620-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server 1.20.11, OpenGL: 4.5 Mesa 21.2.1 (LLVM 12.0.0), Vulkan: 1.1.182, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 3072x1728

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-gcn/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-build-config=bootstrap-lto-lean --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: 0xa201016
Python Notes: Python 2.7.18 + Python 3.9.5
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

	AMD Ryzen 9 5900X 12-Core - Sapphire AMD Radeon R7
Apache CouchDB - 100 - 1000 - 24 (sec)	51.018
Standard Deviation	0.6%
Darmstadt Automotive Parallel Heterogeneous Suite - OpenMP - Euclidean Cluster (Test Cases/min)	1463
Standard Deviation	1.2%
TensorFlow Lite - Mobilenet Float (us)	83785
Standard Deviation	0.2%
PostgreSQL pgbench - 1 - 1 - Read Only (TPS)	39790
Standard Deviation	2.1%
PostgreSQL pgbench - 1 - 1 - Read Only - Average Latency (ms)	0.025
Standard Deviation	0%
PostgreSQL pgbench - 1 - 1 - Read Write (TPS)	2850
Standard Deviation	0.9%
PostgreSQL pgbench - 1 - 1 - Read Write - Average Latency (ms)	0.351
Standard Deviation	0.8%
CppPerformanceBenchmarks - S.A (sec)	19.561
Standard Deviation	1%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	43.387
Standard Deviation	0.3%
KTX-Software toktx - Zstd Compression 9 (sec)	2.173
Standard Deviation	0.2%
Redis - SET (Reqs/sec)	2580821
Standard Deviation	3.5%
Stress-NG - CPU Stress (Bogo Ops/s)	39650
Standard Deviation	0.5%
ctx_clock - C.S.T (Clocks)	148
IndigoBench - CPU - Bedroom (M samples/s)	3.413
Standard Deviation	0.4%
IndigoBench - CPU - Supercar (M samples/s)	7.079
Standard Deviation	0.9%
Blender - BMW27 - OpenCL (sec)	239.40
Standard Deviation	0.2%
Blender - BMW27 - CPU-Only (sec)	95.42
Standard Deviation	0.1%
Xsbench (Lookups/s)	3725168
Standard Deviation	0.9%
PyBench - T.F.A.T.T (Milliseconds)	729
Standard Deviation	2.3%

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PyPerformance - 2to3 (Milliseconds)	236
ECP-CANDLE - P1B2 (sec)	31.457
Hierarchical INTegration - FLOAT (QUIPs)	507267380
Standard Deviation	0.5%
NeatBench - CPU (FPS)	30.9
Standard Deviation	0.6%
Natron - Spaceship (FPS)	2.4
Standard Deviation	2.4%

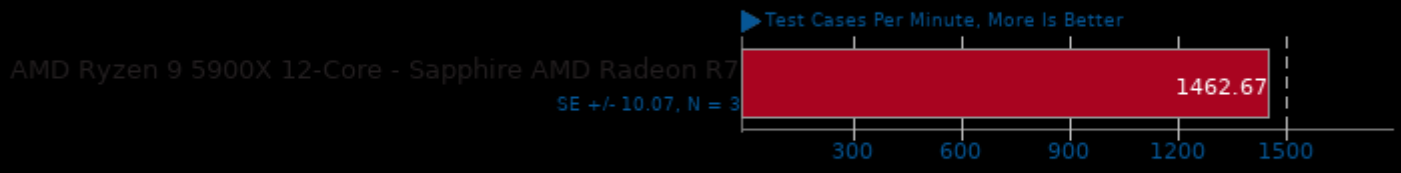
Apache CouchDB 3.1.1

Bulk Size: 100 - Inserts: 1000 - Rounds: 24



Darmstadt Automotive Parallel Heterogeneous Suite

Backend: OpenMP - Kernel: Euclidean Cluster



1. (CXX) g++ options: -O3 -std=c++11 -fopenmp

TensorFlow Lite 2020-08-23

Model: Mobilenet Float



PostgreSQL pgbench 13.0

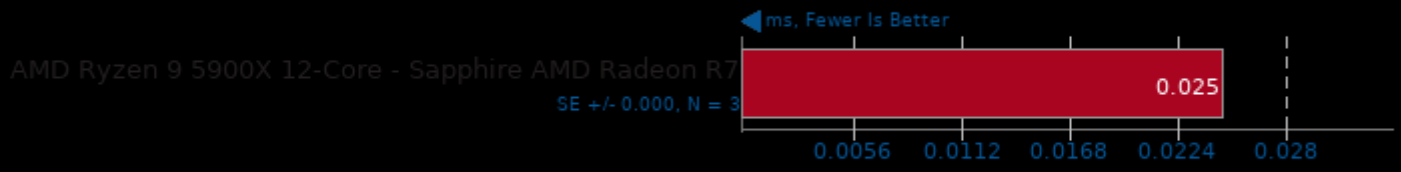
Scaling Factor: 1 - Clients: 1 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

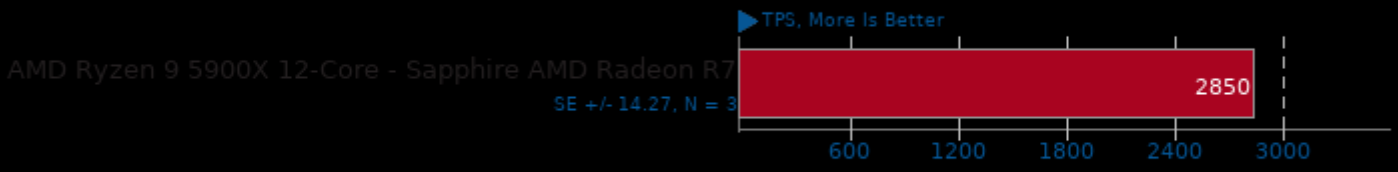
Scaling Factor: 1 - Clients: 1 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

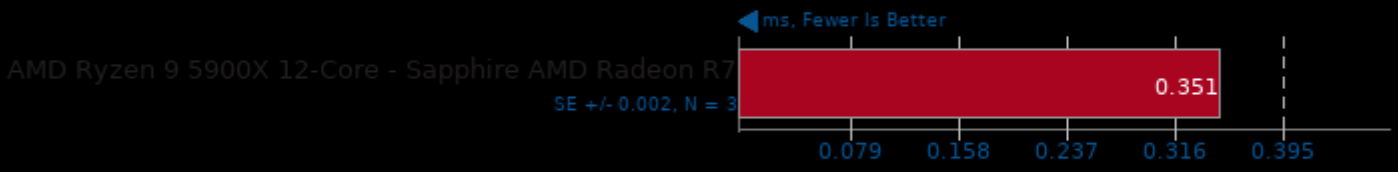
Scaling Factor: 1 - Clients: 1 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

Scaling Factor: 1 - Clients: 1 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

CppPerformanceBenchmarks 9

Test: Stepanov Abstraction



1. (CXX) g++ options: -std=c++11 -O3

SQLite Speedtest 3.30

Timed Time - Size 1,000



1. (CC) gcc options: -O2 -ldl -lz -lpthread

KTX-Software toktx 4.0

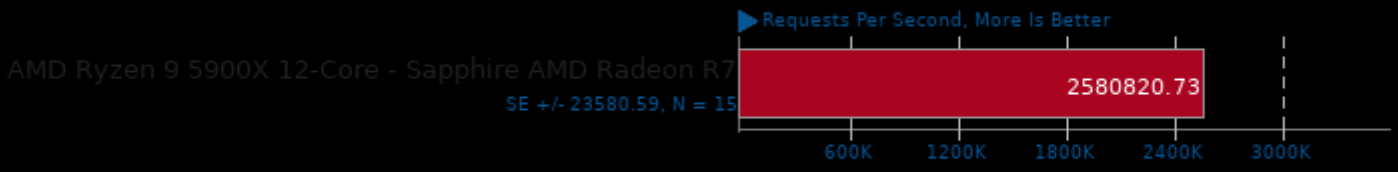
Settings: Zstd Compression 9



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Redis 6.0.9

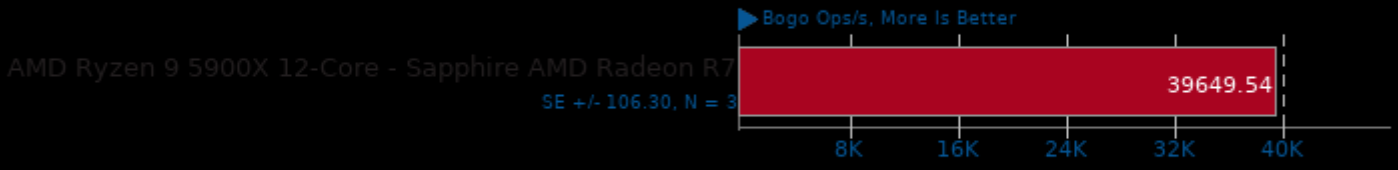
Test: SET



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Stress-NG 0.13.02

Test: CPU Stress



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -pthread -lc -latomic

ctx_clock

Context Switch Time



IndigoBench 4.4

Acceleration: CPU - Scene: Bedroom



IndigoBench 4.4

Acceleration: CPU - Scene: Supercar



Blender 2.92

Blend File: BMW27 - Compute: OpenCL

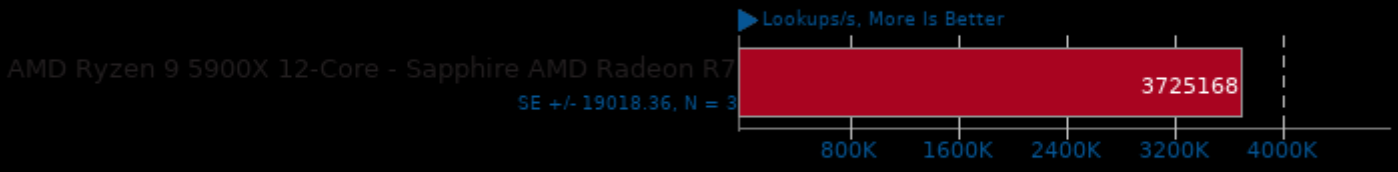


Blender 2.92

Blend File: BMW27 - Compute: CPU-Only



Xsbench 2017-07-06



1. (CC) gcc options: -std=gnu99 -fopenmp -O3 -lm

PyBench 2018-02-16

Total For Average Test Times



PyPerformance 1.0.0

Benchmark: 2to3

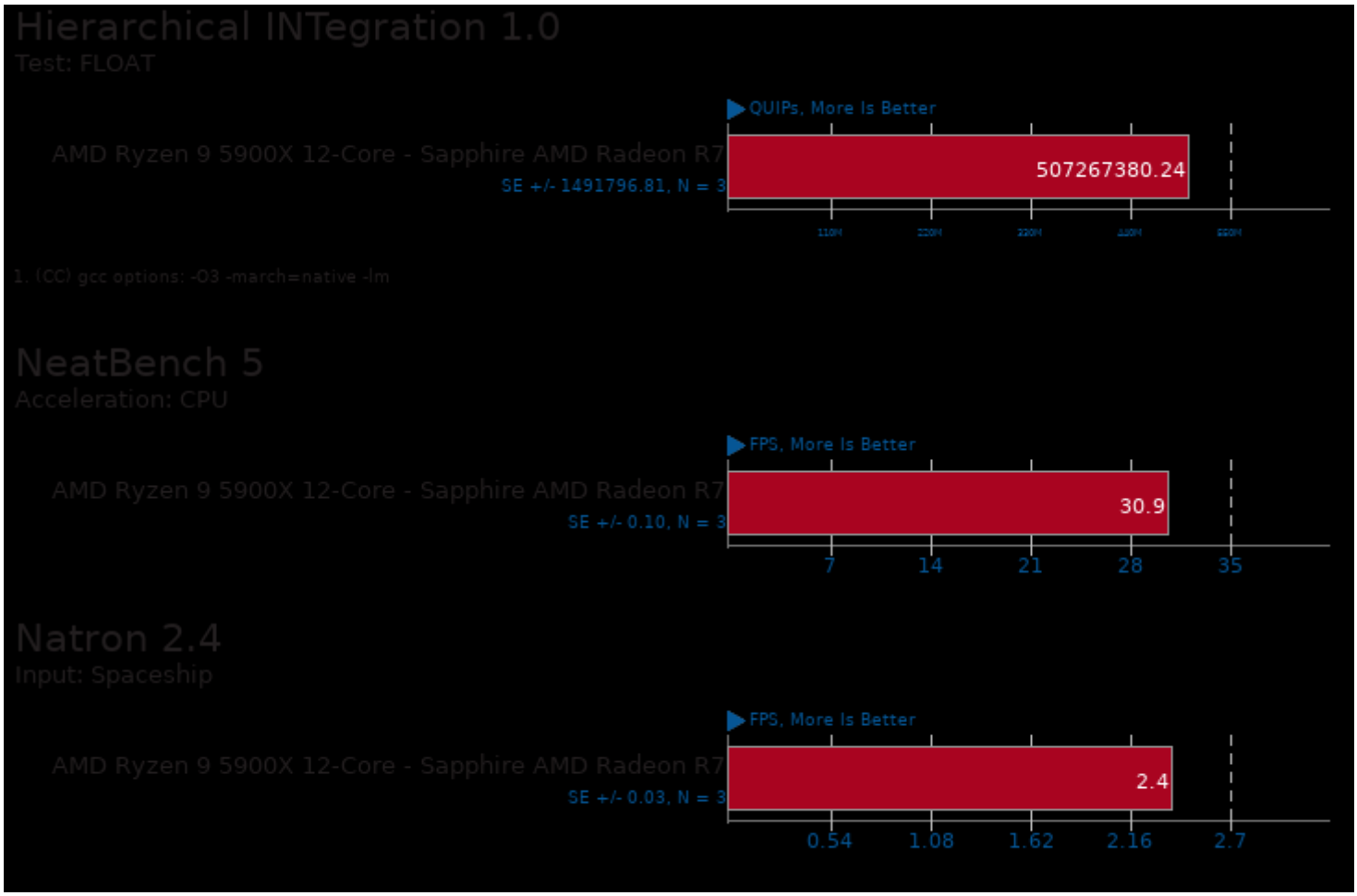


ECP-CANDLE 0.4

Benchmark: P1B2



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