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# test_c

AMD Ryzen 9 3900X 12-Core testing with a ASRock X470 Taichi Ultimate (P4.20 BIOS) and AMD Radeon VII 16GB on VoidLinux rolling via the Phoronix Test Suite.

## Test Systems:

### AMD Radeon VII - AMD Ryzen 9 3900X 12-Core

Processor: AMD Ryzen 9 3900X 12-Core @ 3.80GHz (12 Cores / 24 Threads), Motherboard: ASRock X470 Taichi Ultimate (P4.20 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Samsung SSD 970 EVO 1TB + 2000GB Seagate ST2000DM008-2FR1 + 240GB KINGSTON SA400S3, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: AMD Vega 20 HDMI Audio, Monitor: XF270HU, Network: Intel I211 + Aquantia AQC107 NBase-T/IEEE + Intel Dual Band-AC 3168NGW

OS: VoidLinux rolling, Kernel: 5.9.8_1 (x86_64), OpenGL: 4.6 Mesa 20.2.2 (LLVM 11.0.0), Compiler: GCC 9.3.0, File-System: xfs, Screen Resolution: 2560x1440

Kernel Notes: amdgpu.ppfeaturemask=0xffffffff amdgpu.tmz=1
Environment Notes: MAKEFLAGS=-j4

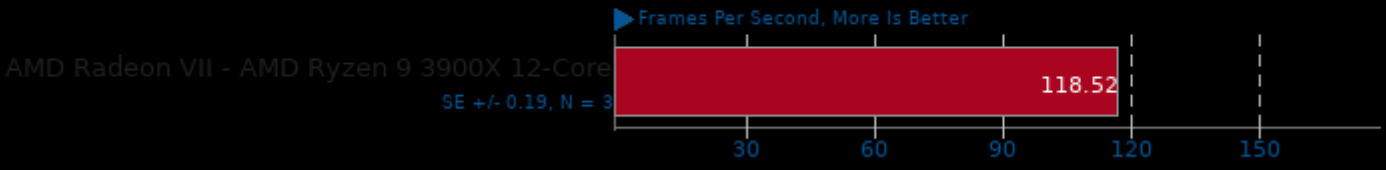
# test_c

Compiler Notes: --build=x86_64-unknown-linux-gnu --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-multilib --disable-nls --disable-target-libiberty --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-default-pie --enable-default-ssp --enable-fast-character --enable-languages=c,c++,objc,obj-c++,fortran,lto,go,ada --enable-lto --enable-plugins --enable-serial-configure --enable-shared --enable-threads=posix --enable-vtable-verify --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil - 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

| | AMD Radeon VII - AMD Ryzen 9 3900X 12-Core |
|---|---|
| **SuperTuxKart - 2560 x 1440 - Fullscreen - Ultimate - 8 - Candela City (FPS)** | 118.521540 |
| **Standard Deviation** | 0.3% |
| **Unigine Heaven - 2560 x 1440 - Fullscreen - OpenGL (FPS)** | 101.211 |
| **Standard Deviation** | 0.3% |
| **Unigine Superposition - 2560 x 1440 - Fullscreen - Ultra - OpenGL (FPS)** | 21 |
| **Unigine Valley - 2560 x 1440 - Fullscreen - OpenGL (FPS)** | 110.714 |
| **Standard Deviation** | 0.1% |
| **Xonotic - 2560 x 1440 - Ultimate (FPS)** | 461.8953906 |
| **Standard Deviation** | 2.9% |
| **MPV - B.B.B.S.4 - Software Only (FPS)** | 1627 |
| **Standard Deviation** | 0.4% |
| **Cryptsetup - PBKDF2-sha512 (Iterations/sec)** | 1315972 |
| **Standard Deviation** | 1.9% |
| **Cryptsetup - PBKDF2-whirlpool (Iterations/sec)** | 562502 |
| **Standard Deviation** | 2.1% |
| **PostgreSQL pgbench - 1 - 250 - Read Write (TPS)** | 795 |
| **Standard Deviation** | 2% |
| **PostgreSQL pgbench - 1 - 250 - Read Write - Average Latency (ms)** | 314.742 |
| **Standard Deviation** | 2% |
| **Redis - GET (Reqs/sec)** | 2078763 |
| **Standard Deviation** | 2.7% |
| **Git - T.T.C.C.G.C (sec)** | 47.184 |
| **Standard Deviation** | 1.6% |

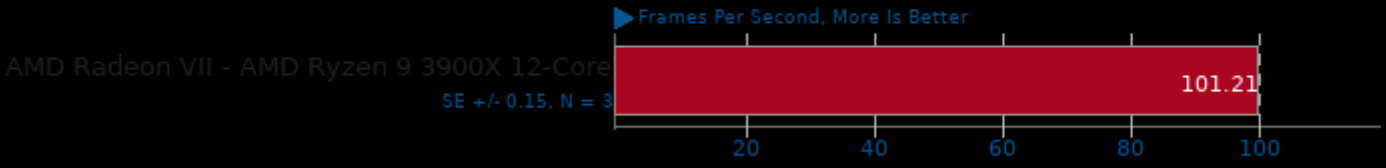
## SuperTuxKart 1.1

Resolution: 2560 x 1440 - Mode: Fullscreen - Graphics Effects: Ultimate - Karts: 8 - Scene: Candela City



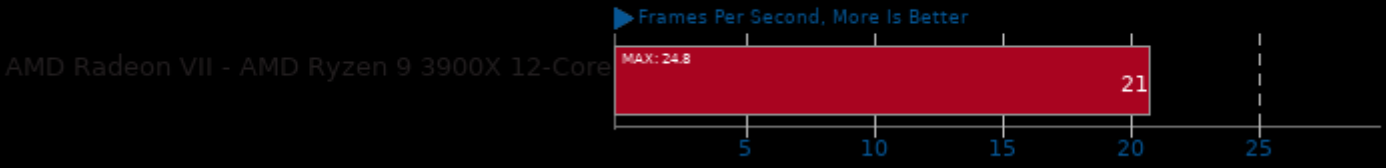

## Unigine Heaven 4.0

Resolution: 2560 x 1440 - Mode: Fullscreen - Renderer: OpenGL



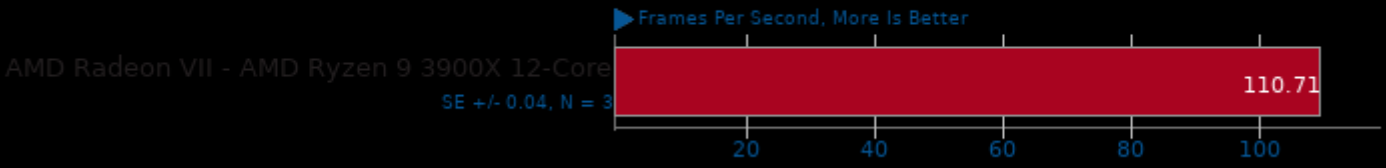

## Unigine Superposition 1.0

Resolution: 2560 x 1440 - Mode: Fullscreen - Quality: Ultra - Renderer: OpenGL



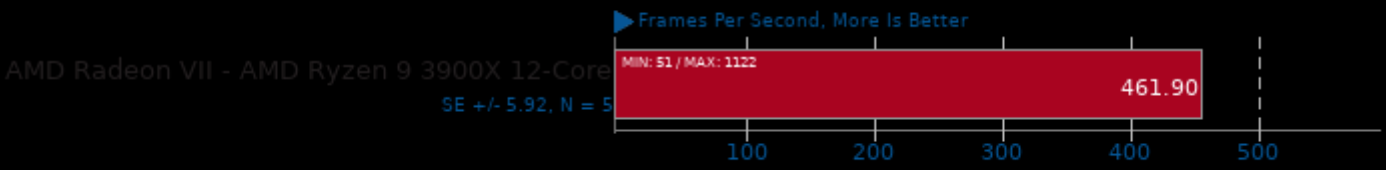

## Unigine Valley 1.0

Resolution: 2560 x 1440 - Mode: Fullscreen - Renderer: OpenGL



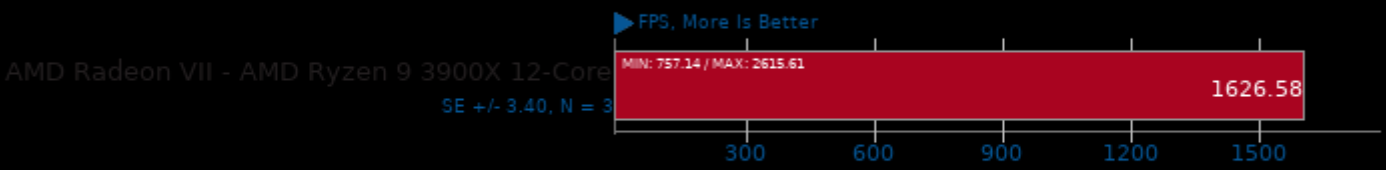

## Xonotic 0.8.2

Resolution: 2560 x 1440 - Effects Quality: Ultimate




## MPV

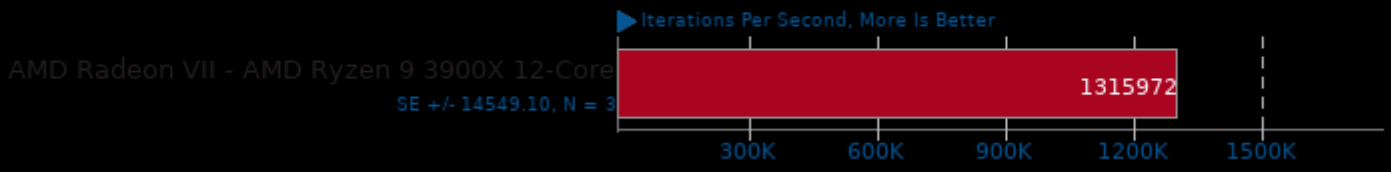
Video Input: Big Buck Bunny Sunflower 4K - Decode: Software Only




1: mpv 0.32.0

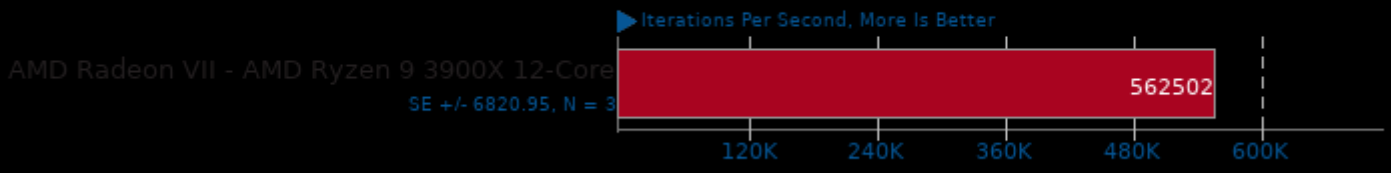
## Cryptsetup 2.3.4

PBKDF2-sha512



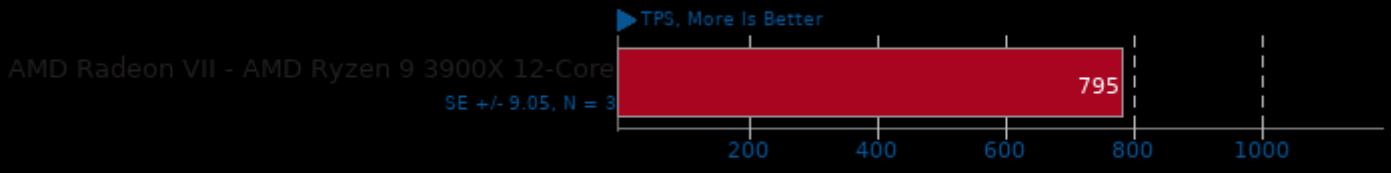

## Cryptsetup

PBKDF2-whirlpool




## PostgreSQL pgbench 13.0

Scaling Factor: 1 - Clients: 250 - Mode: Read Write




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

## PostgreSQL pgbench 13.0

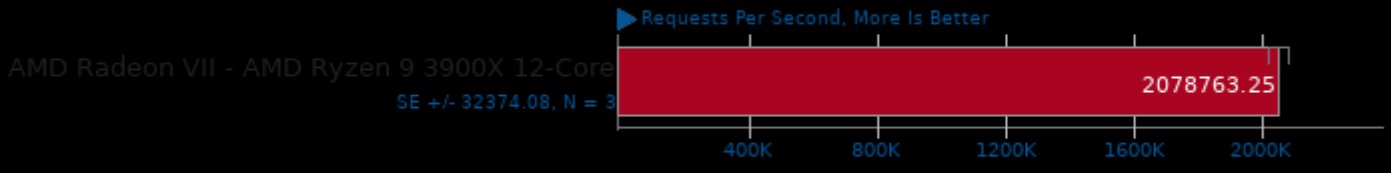
Scaling Factor: 1 - Clients: 250 - Mode: Read Write - Average Latency



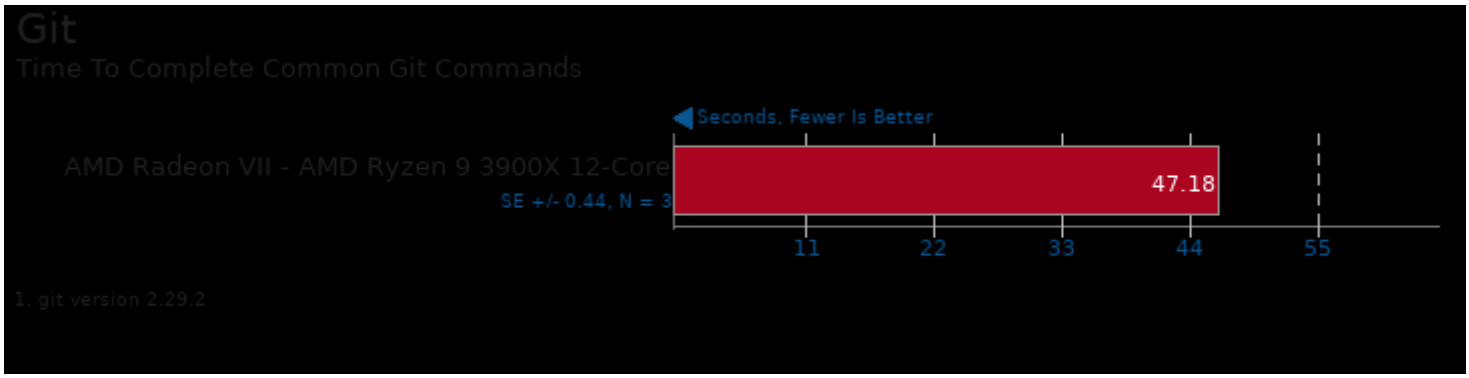

1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

## Redis 6.0.9

Test: GET




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




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