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Athlon Red Hat Enterprise Linux AMD

AMD Athlon 3000G testing with a ASUS PRIME B350M-E (5220 BIOS) and ASUS AMD Picasso 2GB on CentOS Linux 8 via the Phoronix Test Suite.

Test Systems:

AMD Athlon 3000G

Processor: AMD Athlon 3000G @ 3.50GHz (2 Cores / 4 Threads), Motherboard: ASUS PRIME B350M-E (5220 BIOS), Chipset: AMD Raven/Raven2, Memory: 6144MB, Disk: Samsung SSD 970 EVO 250GB, Graphics: ASUS AMD Picasso 2GB (1100MHz), Audio: AMD Raven/Raven2/Fenghuang, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: CentOS Linux 8, Kernel: 4.18.0-151.el8.x86_64 (x86_64), Desktop: GNOME Shell 3.32.2, Display Server: X Server + Wayland, OpenGL: 4.5 Mesa 19.1.4 (LLVM 8.0.1), Compiler: GCC 8.3.1 20190507, File-System: xfs, Screen Resolution: 1920x1080

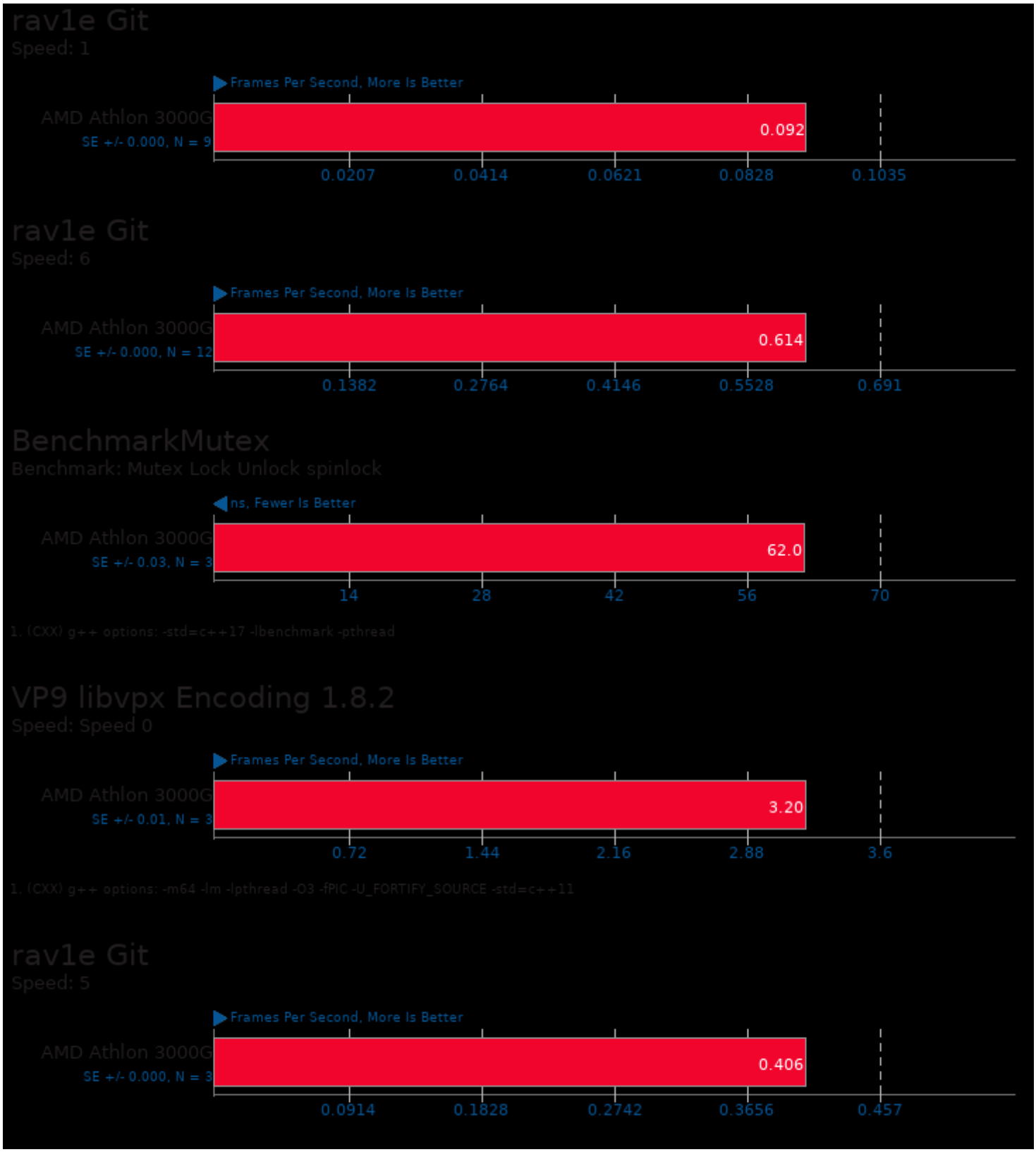
Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-multilib

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--enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x8108109
Security Notes: SELinux + 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: disabled RSB filling

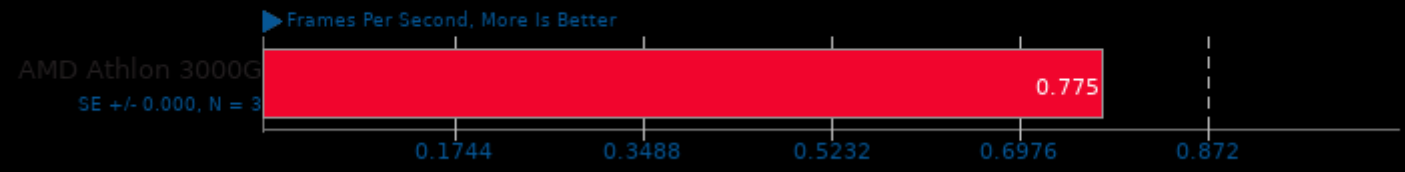
	AMD Athlon 3000G
rav1e - 1 (FPS)	0.092
Standard Deviation	0.5%
rav1e - 6 (FPS)	0.614
Standard Deviation	0.1%
BenchmarkMutex - M.L.U.s (ns)	62.0
Standard Deviation	0.1%
VP9 libvpx Encoding - Speed 0 (FPS)	3.20
Standard Deviation	0.4%
rav1e - 5 (FPS)	0.406
Standard Deviation	0.1%
rav1e - 9 (FPS)	0.775
Standard Deviation	0.1%
BenchmarkMutex - M.L.U.s (ns)	59.6
Standard Deviation	0.1%
BenchmarkMutex - M.L.U.p (ns)	15.1
Standard Deviation	0.4%
VP9 libvpx Encoding - Speed 5 (FPS)	11.98
Standard Deviation	0.7%
BenchmarkMutex - M.L.U.t (ns)	44.6
Standard Deviation	0.1%
BenchmarkMutex - M.L.U.s.m (ns)	26.5
Standard Deviation	0%
BenchmarkMutex - S.M.L.S (ns)	21.3
Standard Deviation	0.3%
BenchmarkMutex - M.L.U.s.m (ns)	20.8
Standard Deviation	0.7%
Node.js Express HTTP Load Test (Reqs/sec)	4786
Standard Deviation	1.2%
BenchmarkMutex - S.R.A.A (ns)	16.7
Standard Deviation	0.7%

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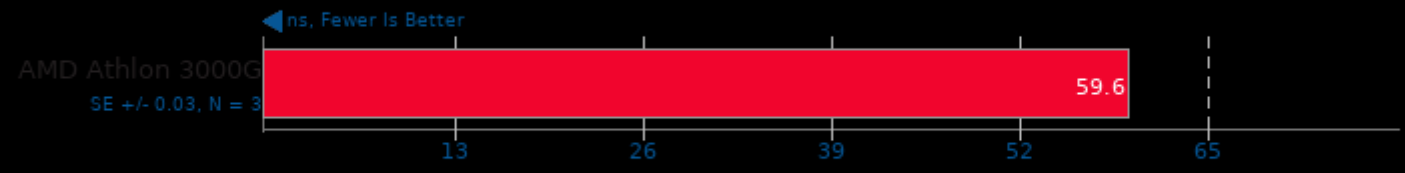
rav1e Git

Speed: 9



BenchmarkMutex

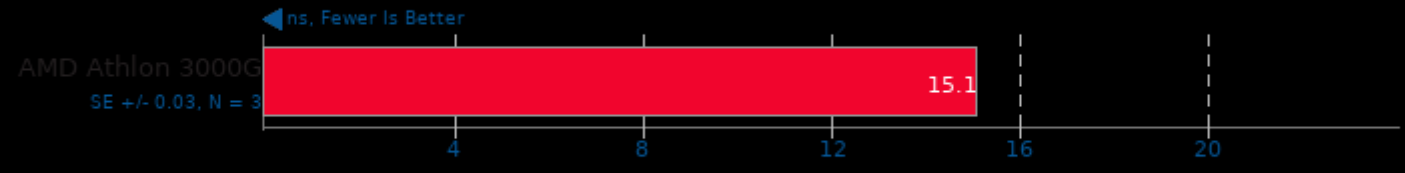
Benchmark: Mutex Lock Unlock spinlock_amd



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

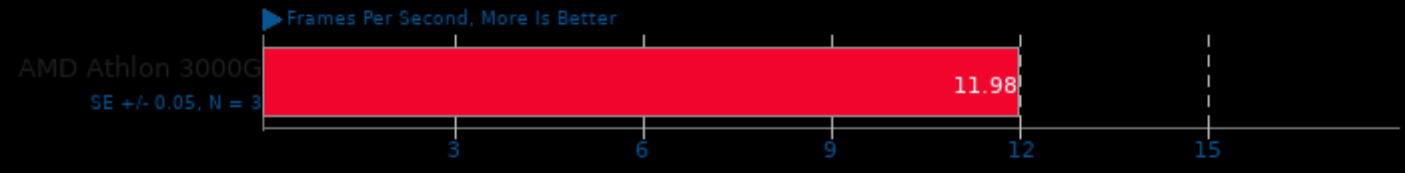
Benchmark: Mutex Lock Unlock pthread_mutex



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

VP9 libvpx Encoding 1.8.2

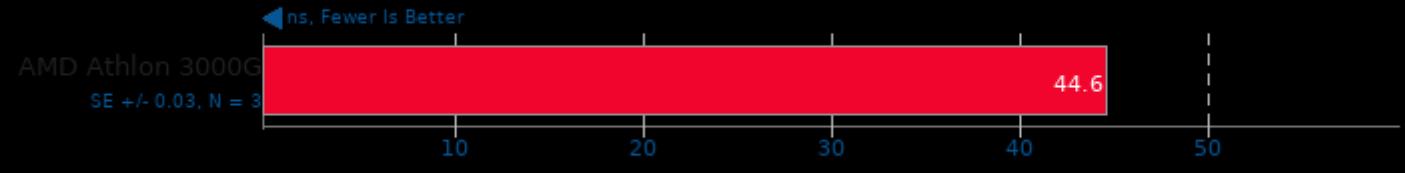
Speed: Speed 5



1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=c++11

BenchmarkMutex

Benchmark: Mutex Lock Unlock ticket_spinlock



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024

15:01.