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Ryzen 7 2700

AMD Ryzen 7 2700 Eight-Core testing with a Gigabyte AB350N-Gaming WIFI-CF (F20 BIOS) and llvmpipe 16GB on Ubuntu 18.04 via the Phoronix Test Suite.

Test Systems:

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Processor: AMD Ryzen 7 2700 Eight-Core @ 3.20GHz (8 Cores / 16 Threads), Motherboard: Gigabyte AB350N-Gaming WIFI-CF (F20 BIOS), Chipset: AMD 17h, Memory: 16384MB, Disk: 525GB 2115 + 120GB ADATA SU700, Graphics: llvmpipe 16GB, Audio: AMD Caicos HDMI Audio, Network: Realtek RTL8111/8168/8411 + Intel 3165

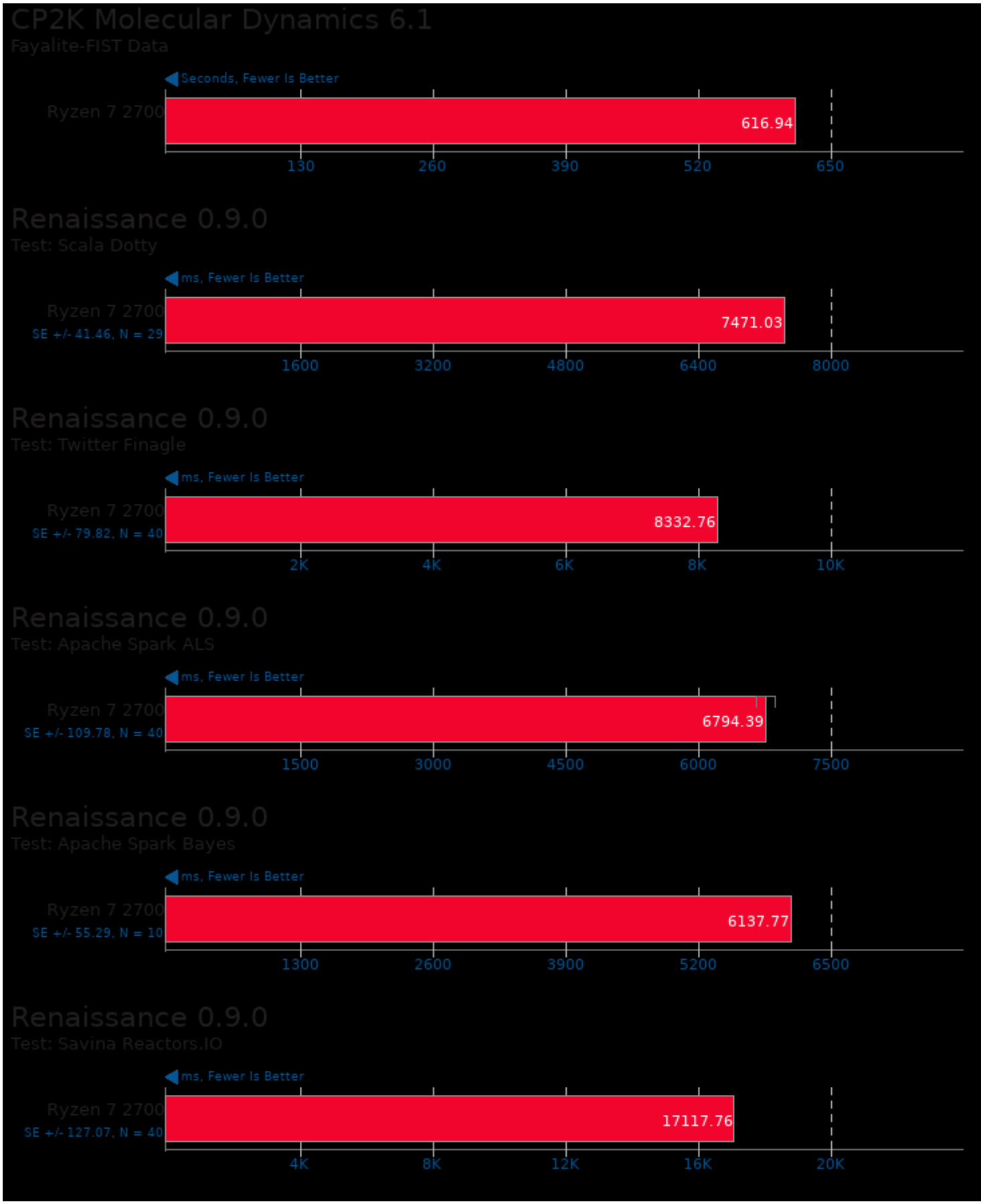
OS: Ubuntu 18.04, Kernel: 4.19.0-999-generic (x86_64) 20181006, Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.19.6, Display Driver: modesetting 1.19.6, OpenGL: 3.3 Mesa 18.0.5 (LLVM 6.0 128 bits), Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 1024x768

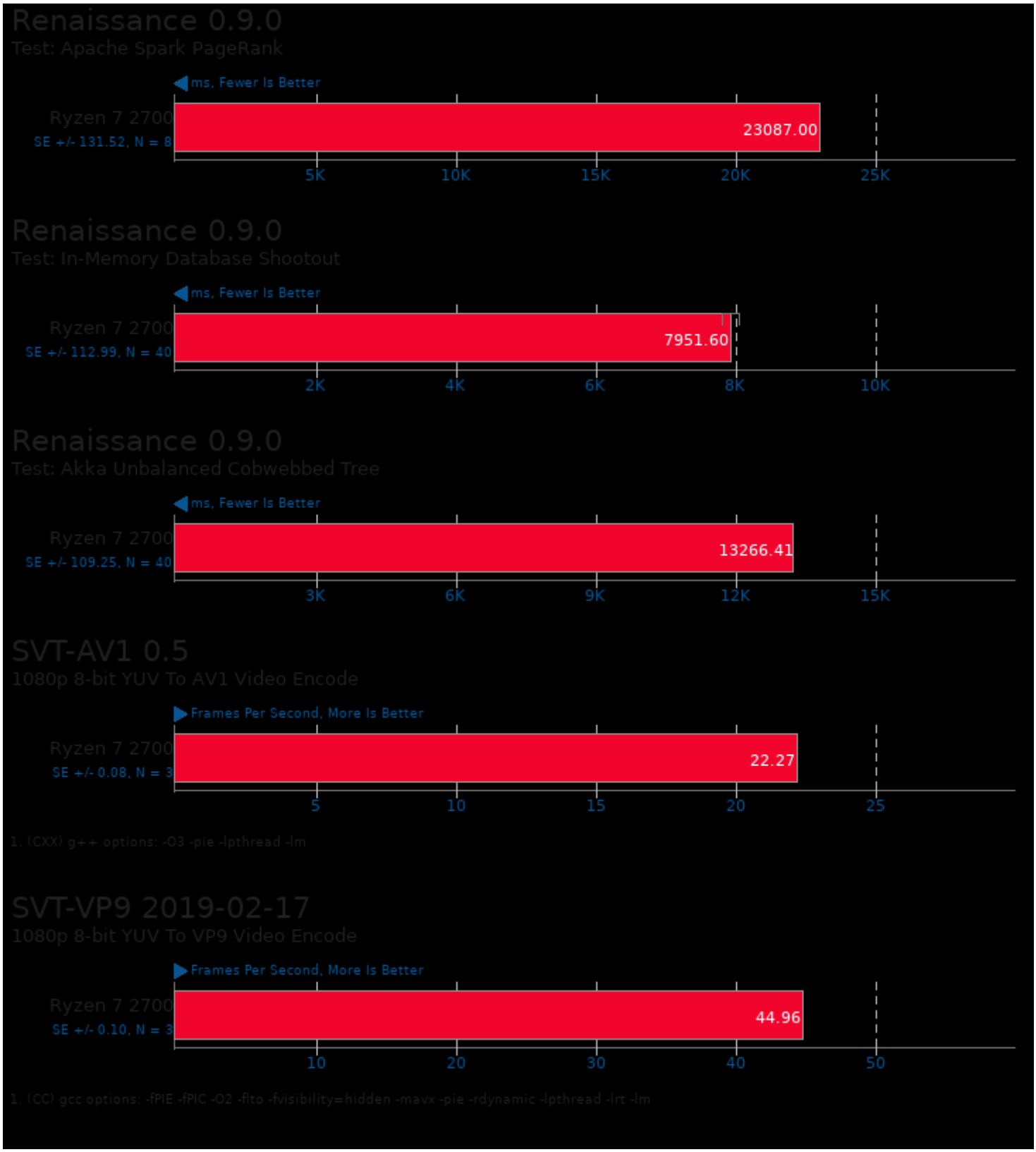
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix

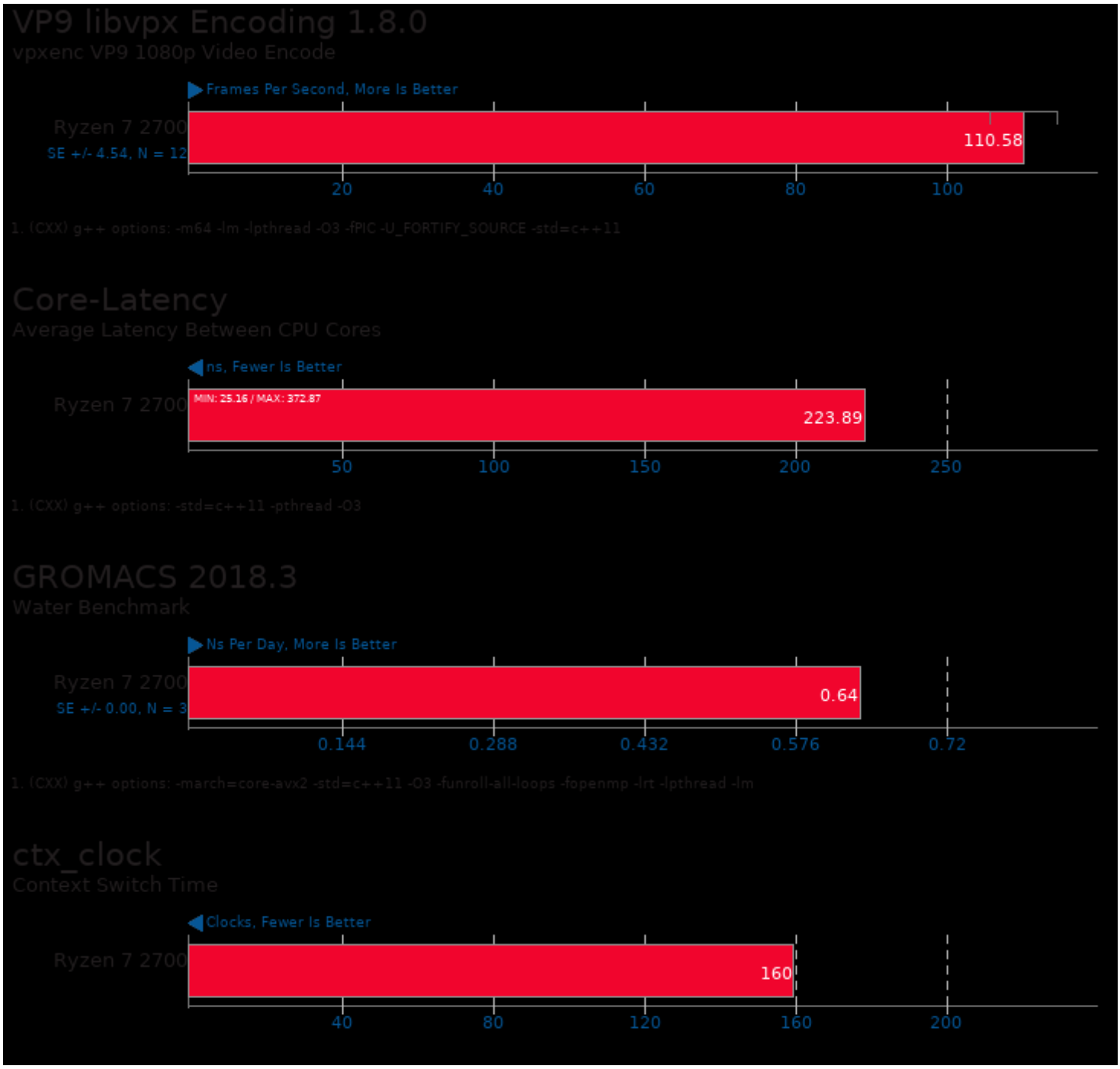
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--host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-as=/usr/bin/x86_64-linux-gnu-as --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-ld=/usr/bin/x86_64-linux-gnu-ld --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
Java Notes: OpenJDK Runtime Environment (build 11.0.3+7-Ubuntu-1ubuntu218.04.1)
Security Notes: l1tf: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline

	Ryzen 7 2700
CP2K Molecular Dynamics - Fayalite-FIST Data (sec)	616.94
Renaissance - Scala Dotty (ms)	7471
Standard Deviation	3%
Renaissance - Twitter Finagle (ms)	8333
Standard Deviation	6.1%
Renaissance - Apache Spark ALS (ms)	6794
Standard Deviation	10.2%
Renaissance - Apache Spark Bayes (ms)	6138
Standard Deviation	2.8%
Renaissance - Savina Reactors.IO (ms)	17118
Standard Deviation	4.7%
Renaissance - A.S.P (ms)	23087
Standard Deviation	1.6%
Renaissance - I.M.D.S (ms)	7952
Standard Deviation	9%
Renaissance - A.U.C.T (ms)	13266
Standard Deviation	5.2%
SVT-AV1 - 1.8.b.Y.T.A.V.E (FPS)	22.27
Standard Deviation	0.7%
SVT-VP9 - 1.8.b.Y.T.V.V.E (FPS)	44.96
Standard Deviation	0.4%
VP9 libvpx Encoding - v.V.1.V.E (FPS)	110.58
Standard Deviation	14.2%
Core-Latency - A.L.B.C.C (ns)	223.89
GROMACS - Water Benchmark (Ns/Day)	0.64
Standard Deviation	0.2%
ctx_clock - C.S.T (Clocks)	160


CP2K Molecular Dynamics 6.1
Fayalite-FIST Data
Seconds, Fewer Is Better
Ryzen 7 2700
616.94
130
260
390
520
650
Renaissance 0.9.0
Test: Scala Dotty
ms, Fewer Is Better
Ryzen 7 2700
SE +/- 41.46, N = 29
7471.03
1600
3200
4800
6400
8000
Renaissance 0.9.0
Test: Twitter Finagle
ms, Fewer Is Better
Ryzen 7 2700
SE +/- 79.82, N = 40
8332.76
2K
4K
6K
8K
10K
Renaissance 0.9.0
Test: Apache Spark ALS
ms, Fewer Is Better
Ryzen 7 2700
SE +/- 109.78, N = 40
6794.39
1500
3000
4500
6000
7500
Renaissance 0.9.0
Test: Apache Spark Bayes
ms, Fewer Is Better
Ryzen 7 2700
SE +/- 55.29, N = 10
6137.77
1300
2600
3900
5200
6500
Renaissance 0.9.0
Test: Savina Reactors.IO
ms, Fewer Is Better
Ryzen 7 2700
SE +/- 127.07, N = 40
17117.76
4K
8K
12K
16K
20K


Renaissance 0.9.0
Test: Apache Spark PageRank
ms, Fewer Is Better
Ryzen 7 2700
SE +/- 131.52, N = 8
23087.00
5K
10K
15K
20K
25K
Renaissance 0.9.0
Test: In-Memory Database Shootout
ms, Fewer Is Better
Ryzen 7 2700
SE +/- 112.99, N = 40
7951.60
2K
4K
6K
8K
10K
Renaissance 0.9.0
Test: Akka Unbalanced Cobwebbed Tree
ms, Fewer Is Better
Ryzen 7 2700
SE +/- 109.25, N = 40
13266.41
3K
6K
9K
12K
15K
SVT-AV1 0.5
1080p 8-bit YUV To AV1 Video Encode
Frames Per Second, More Is Better
Ryzen 7 2700
SE +/- 0.08, N = 3
22.27
5
10
15
20
25
1. (CXX) g++ options: -O3 -pie -lpthread -lm
SVT-VP9 2019-02-17
1080p 8-bit YUV To VP9 Video Encode
Frames Per Second, More Is Better
Ryzen 7 2700
SE +/- 0.10, N = 3
44.96
10
20
30
40
50
1. (CC) gcc options: -fPIE -fPIC -O2 -flto -fvisibility=hidden -mavx -pie -rdynamic -lpthread -lrt -lm



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 05:15.