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glorfindel-workstation

AMD Ryzen 9 5950X 16-Core testing with a ASUS PRIME X570-PRO (4021 BIOS) and ASUS AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 8GB on Arch rolling via the Phoronix Test Suite.

Test Systems:

glorfindel-workstation-1

Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: ASUS PRIME X570-PRO (4021 BIOS), Chipset: AMD Starship/Matisse, Memory: 64GB, Disk: 1000GB Western Digital WDS100T3X0C-00SJG0 + 1000GB Sabrent Rocket Q4 + 6 x 8002GB HGST HUS728T8TAL + 2 x 0GB MassStorageClass, Graphics: ASUS AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 8GB (2100/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: 2 x DELL P2720D, Network: Intel I211

OS: Arch rolling, Kernel: 5.14.12-arch1-1 (x86_64), Desktop: Openbox 3.6.1, Display Server: X Server 1.20.10, OpenGL: 4.6 Mesa 21.2.3 (LLVM 12.0.1), Compiler: GCC 11.1.0, File-System: ext4, Screen Resolution: 5120x1440

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --disable-libssp --disable-libstdc++-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release

--enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty
 --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man
 --with-isl --with-linker-hash-style=gnu

Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201016

Python Notes: Python 3.9.7

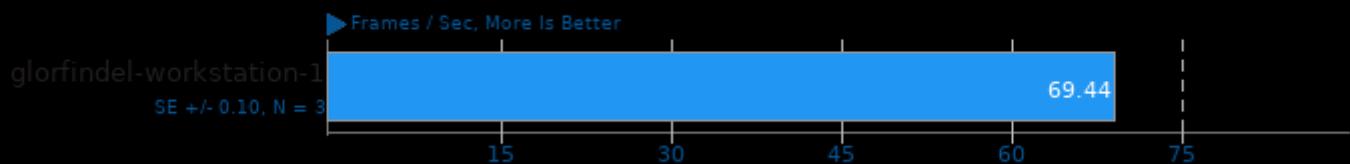
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retrpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbs: Not affected + tsx_async_abort: Not affected

glorfindel-workstation-1

ParaView - Many Spheres - 1920 x 1080 (Frames / Sec)	69.44
Standard Deviation	0.2%
ParaView - Many Spheres - 1920 x 1080 (MiPolys / Sec)	6962
Standard Deviation	0.2%
ParaView - Wavelet Volume - 1920 x 1080 (Frames / Sec)	472.15
Standard Deviation	2.5%
ParaView - Wavelet Volume - 1920 x 1080 (MiVoxels / Sec)	7554
Standard Deviation	2.5%
ParaView - Wavelet Contour - 1920 x 1080 (Frames / Sec)	359.20
Standard Deviation	0.4%
ParaView - Wavelet Contour - 1920 x 1080 (MiPolys / Sec)	3743
Standard Deviation	0.4%
Parboil - OpenMP CUTCP (sec)	1.050919
Standard Deviation	1%
Rodinia - OpenMP LavaMD (sec)	114.869
Standard Deviation	2.2%
Rodinia - OpenMP CFD Solver (sec)	11.435
Standard Deviation	0.6%
x265 - Bosphorus 4K (FPS)	25.13
Standard Deviation	0.7%
x265 - Bosphorus 1080p (FPS)	85.02
Standard Deviation	0.4%
Himeno Benchmark - P.P.S (MFLOPS)	4944
Standard Deviation	4.4%
Swet - Average (Operations/sec)	1035980695
Standard Deviation	2.2%
Sysbench - Memory (MiB/sec)	13996
Standard Deviation	0.3%
Sysbench - CPU (Events/sec)	90000
Standard Deviation	0.2%
Blender - BMW27 - CPU-Only (sec)	82.42
Standard Deviation	0.3%
Blender - Classroom - CPU-Only (sec)	236.43
Standard Deviation	0.1%
Blender - Barbershop - CPU-Only (sec)	310.71
Standard Deviation	0.1%
Git - T.T.C.C.G.C (sec)	40.399
Standard Deviation	0.8%
BRL-CAD - V.P.M (VGR Performance Metric)	255232

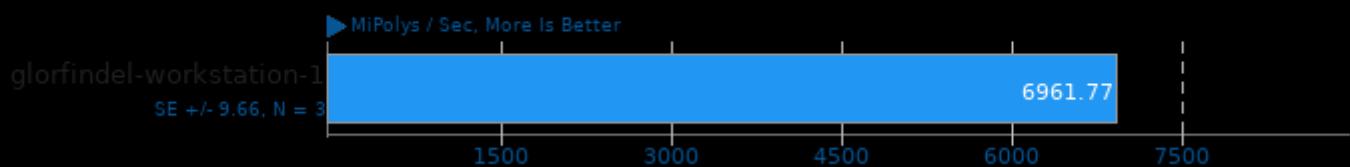
ParaView 5.9

Test: Many Spheres - Resolution: 1920 x 1080



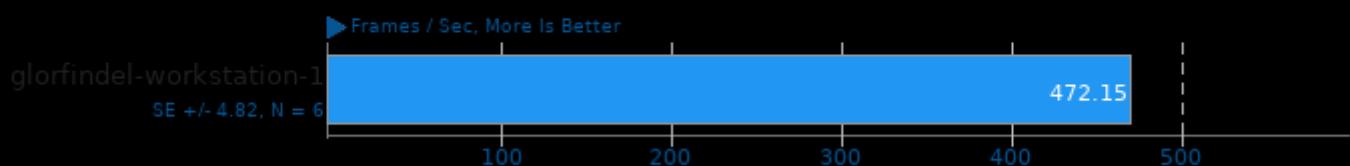
ParaView 5.9

Test: Many Spheres - Resolution: 1920 x 1080



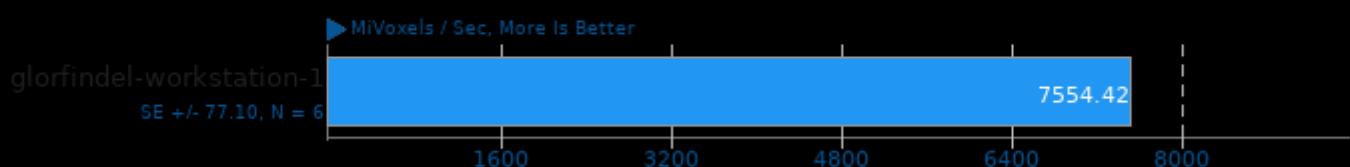
ParaView 5.9

Test: Wavelet Volume - Resolution: 1920 x 1080



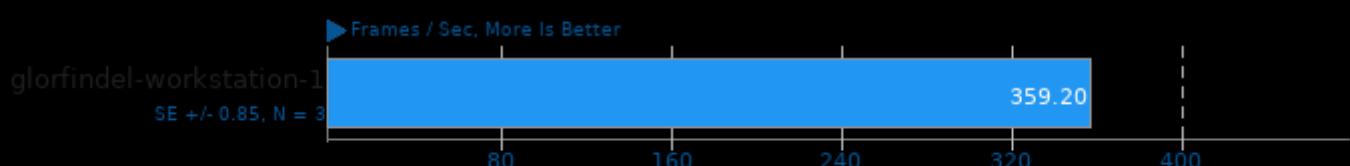
ParaView 5.9

Test: Wavelet Volume - Resolution: 1920 x 1080



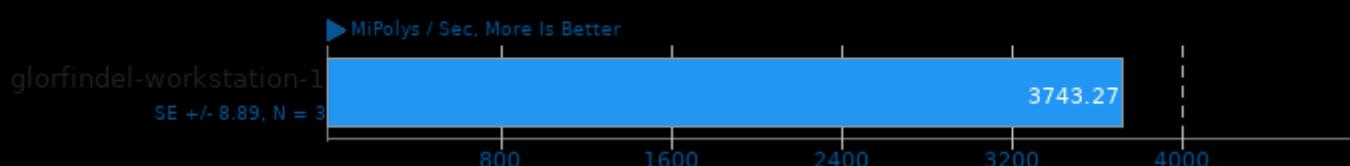
ParaView 5.9

Test: Wavelet Contour - Resolution: 1920 x 1080



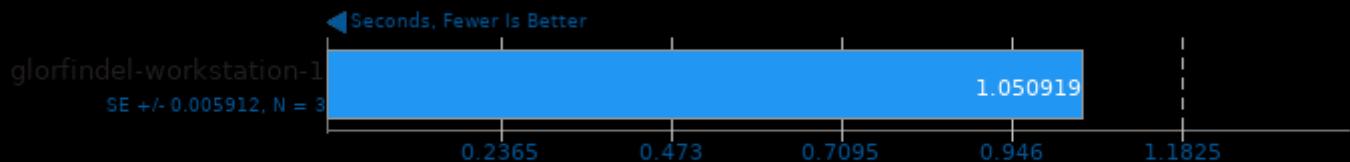
ParaView 5.9

Test: Wavelet Contour - Resolution: 1920 x 1080



Parboil 2.5

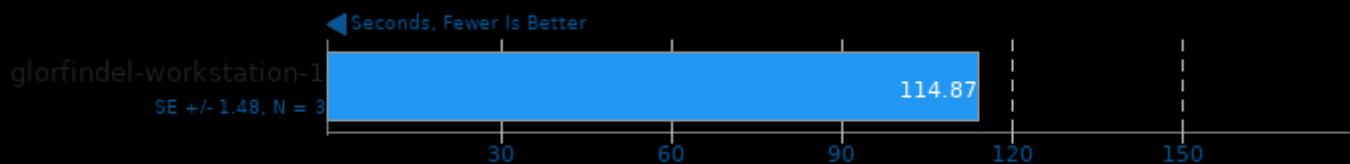
Test: OpenMP CUTCP



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

Rodinia 3.1

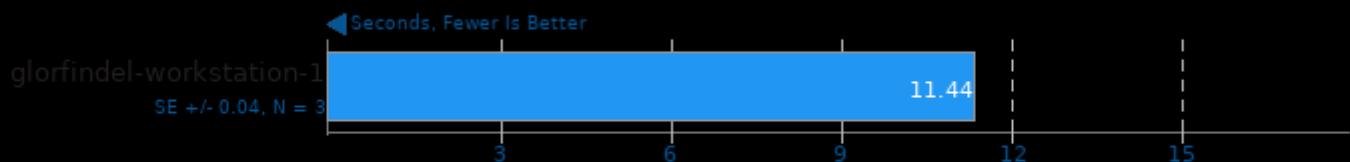
Test: OpenMP LavaMD



1. (CXX) g++ options: -O2 -fOpenCL

Rodinia 3.1

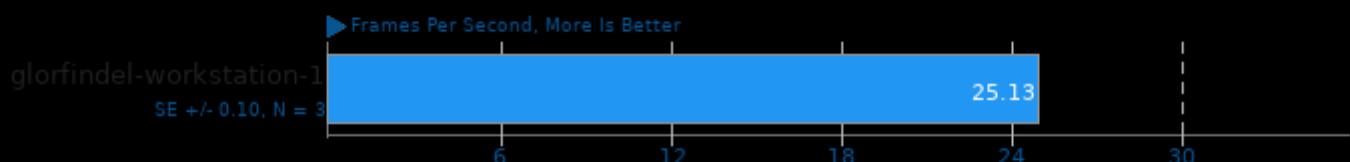
Test: OpenMP CFD Solver



1. (CXX) g++ options: -O2 -fOpenCL

x265 3.4

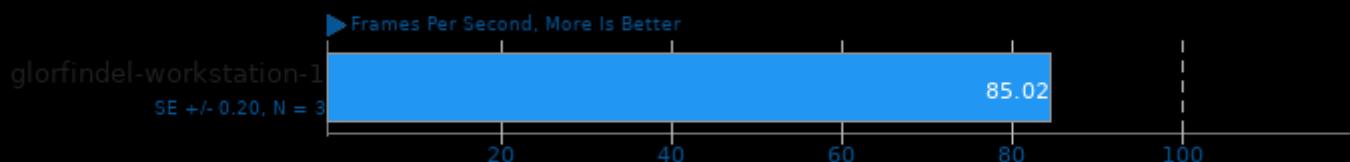
Video Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl -lnuma

x265 3.4

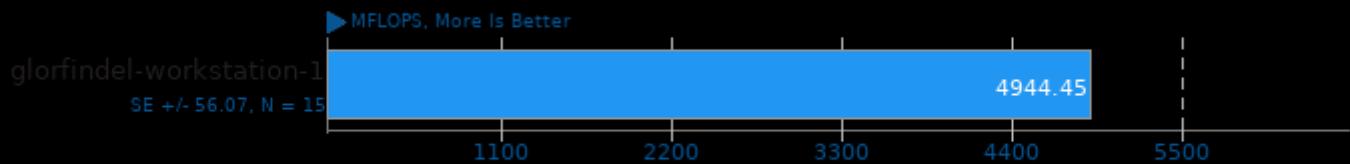
Video Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl -lnuma

Himeno Benchmark 3.0

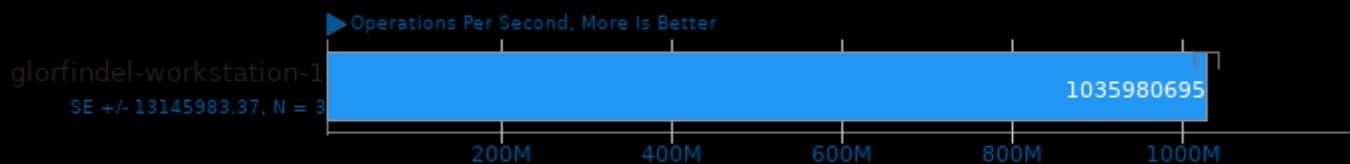
Poisson Pressure Solver



1. (CC) gcc options: -O3 -mavx2

Swet 1.5.16

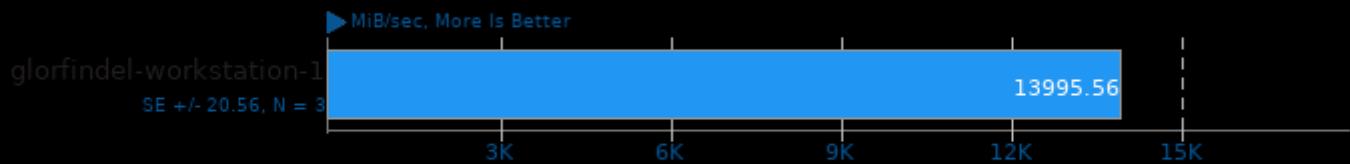
Average



1. (CC) gcc options: -lm -pthread -lcurses -lrt

Sysbench 1.0.20

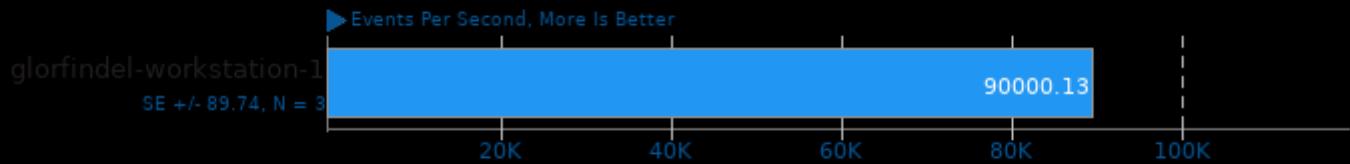
Test: Memory



1. (CC) gcc options: -pthread -O2 -funroll-loops -rdynamic -ldl -laio -lm

Sysbench 1.0.20

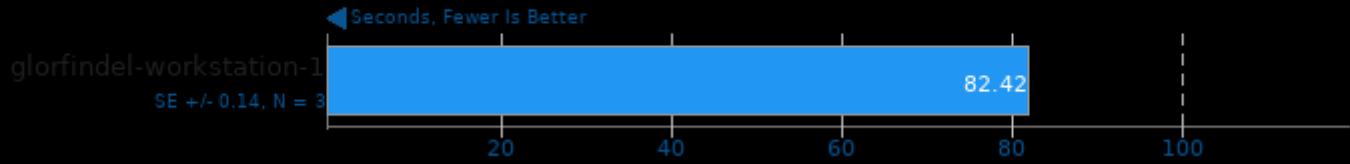
Test: CPU



1. (CC) gcc options: -pthread -O2 -funroll-loops -rdynamic -ldl -laio -lm

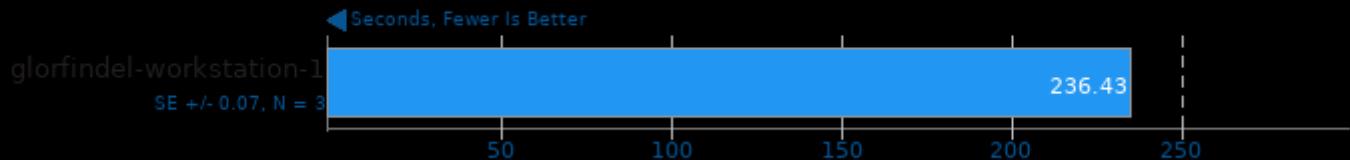
Blender 2.92

Blend File: BMW27 - Compute: CPU-Only



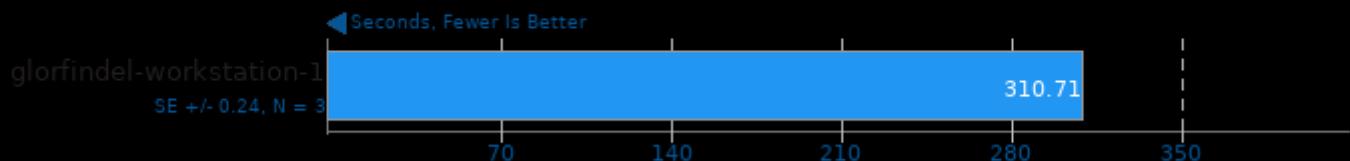
Blender 2.92

Blend File: Classroom - Compute: CPU-Only



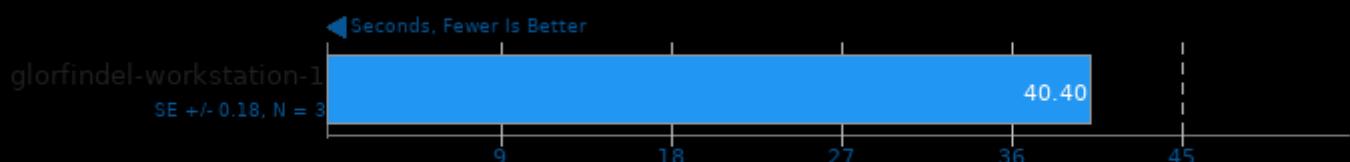
Blender 2.92

Blend File: Barbershop - Compute: CPU-Only



Git

Time To Complete Common Git Commands



1. git version 2.38.0

BRL-CAD 7.32.2

VGR Performance Metric



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