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arrakis-workstation

Intel Xeon W-1370P testing with a Supermicro X12SCA-5F v1.00 and Intel RKL GT1 3GB on Arch Linux via the Phoronix Test Suite.

Test Systems:

arrakis-workstation-1

Processor: Intel Xeon W-1370P @ 5.10GHz (8 Cores / 16 Threads), Motherboard: Supermicro X12SCA-5F v1.00, Chipset: Intel Tiger Lake-H, Memory: 64GB, Disk: 500GB SHGP31-500GM-2 + 2 x 2000GB PCIe SSD + 6 x 12000GB HGST HUH721212AL, Graphics: Intel RKL GT1 3GB (1300MHz), Audio: Realtek ALC888-VD, Monitor: DELL U2412M, Network: Intel + Intel I225-LM

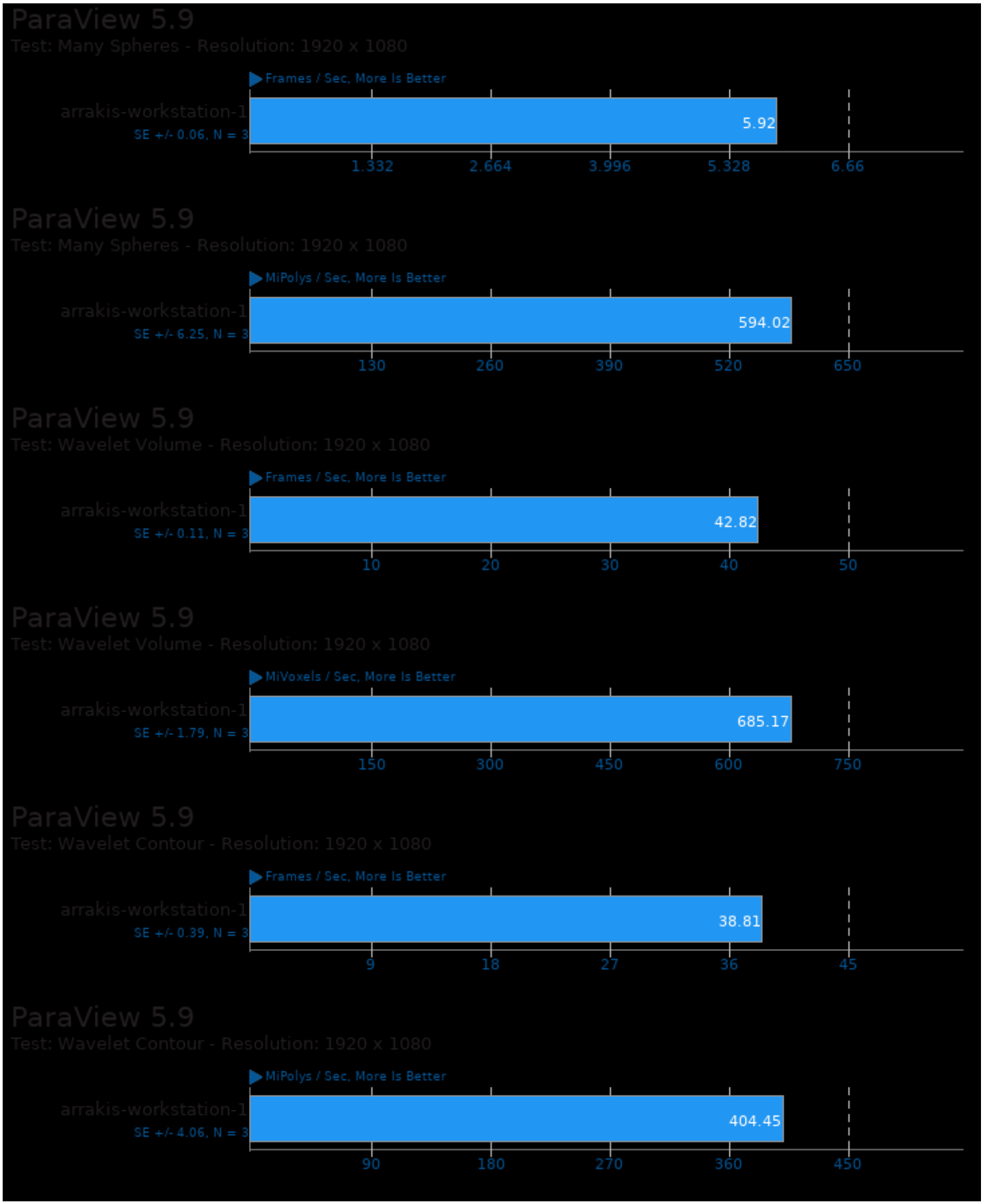
OS: Arch Linux, Kernel: 5.14.12-arch1-1 (x86_64), Desktop: Openbox 3.6.1, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.2.3, Compiler: GCC 11.1.0, File-System: btrfs, Screen Resolution: 1920x1200

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-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-libiberty

arrakis-workstation

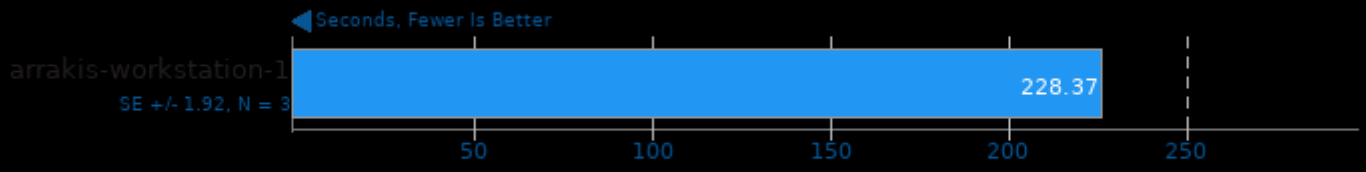
--enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x40
Python Notes: 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	arrakis-workstation-1
ParaView - Many Spheres - 1920 x 1080 (Frames / Sec)	5.92
Standard Deviation	1.8%
ParaView - Many Spheres - 1920 x 1080 (MiPolys / Sec)	594.017
Standard Deviation	1.8%
ParaView - Wavelet Volume - 1920 x 1080 (Frames / Sec)	42.82
Standard Deviation	0.4%
ParaView - Wavelet Volume - 1920 x 1080 (MiVoxels / Sec)	685.166
Standard Deviation	0.5%
ParaView - Wavelet Contour - 1920 x 1080 (Frames / Sec)	38.81
Standard Deviation	1.7%
ParaView - Wavelet Contour - 1920 x 1080 (MiPolys / Sec)	404.448
Standard Deviation	1.7%
Rodinia - OpenMP LavaMD (sec)	228.374
Standard Deviation	1.5%
Rodinia - OpenMP CFD Solver (sec)	20.928
Standard Deviation	0.6%
x265 - Bosphorus 4K (FPS)	13.62
Standard Deviation	2.5%
x265 - Bosphorus 1080p (FPS)	62.81
Standard Deviation	0.6%
Himeno Benchmark - P.P.S (MFLOPS)	5525
Standard Deviation	0%
Swet - Average (Operations/sec)	974255088
Standard Deviation	0.5%
Sysbench - Memory (MiB/sec)	24748
Standard Deviation	0.7%
Sysbench - CPU (Events/sec)	33286
Standard Deviation	0%
Blender - BMW27 - CPU-Only (sec)	146.00
Standard Deviation	0.9%
Blender - Classroom - CPU-Only (sec)	440.18
Standard Deviation	0.2%
Git - T.T.C.C.G.C (sec)	42.288
Standard Deviation	0.2%
BRL-CAD - V.P.M (VGR Performance Metric)	141978


ParaView 5.9
Test: Many Spheres - Resolution: 1920 x 1080
Frames / Sec, More Is Better
arrakis-workstation-1
SE +/- 0.06, N = 3
5.92
1.332
2.664
3.996
5.328
6.66
ParaView 5.9
Test: Many Spheres - Resolution: 1920 x 1080
MiPolys / Sec, More Is Better
arrakis-workstation-1
SE +/- 6.25, N = 3
594.02
130
260
390
520
650
ParaView 5.9
Test: Wavelet Volume - Resolution: 1920 x 1080
Frames / Sec, More Is Better
arrakis-workstation-1
SE +/- 0.11, N = 3
42.82
10
20
30
40
50
ParaView 5.9
Test: Wavelet Volume - Resolution: 1920 x 1080
MiVoxels / Sec, More Is Better
arrakis-workstation-1
SE +/- 1.79, N = 3
685.17
150
300
450
600
750
ParaView 5.9
Test: Wavelet Contour - Resolution: 1920 x 1080
Frames / Sec, More Is Better
arrakis-workstation-1
SE +/- 0.39, N = 3
38.81
9
18
27
36
45
ParaView 5.9
Test: Wavelet Contour - Resolution: 1920 x 1080
MiPolys / Sec, More Is Better
arrakis-workstation-1
SE +/- 4.06, N = 3
404.45
90
180
270
360
450

Rodinia 3.1

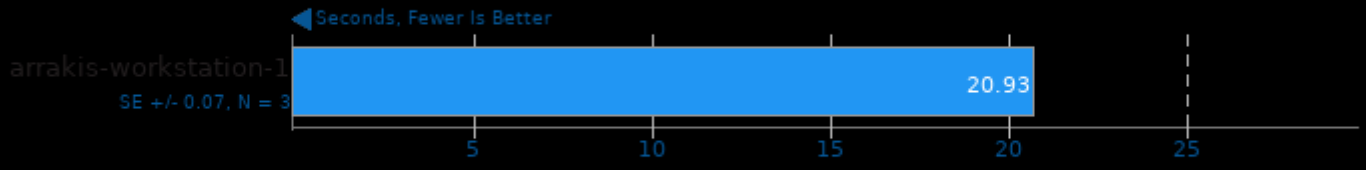
Test: OpenMP LavaMD



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

Rodinia 3.1

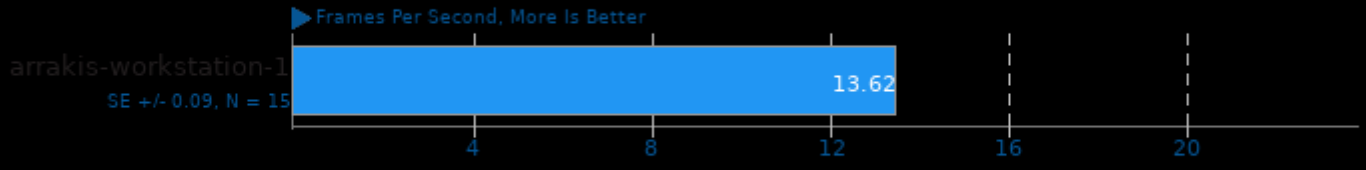
Test: OpenMP CFD Solver



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

x265 3.4

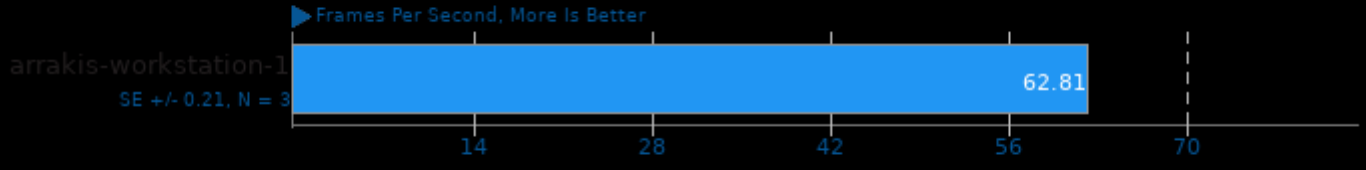
Video Input: Bosphorus 4K



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

x265 3.4

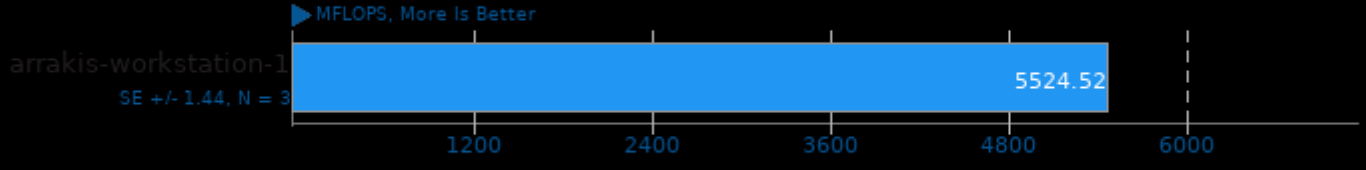
Video Input: Bosphorus 1080p



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

Himeno Benchmark 3.0

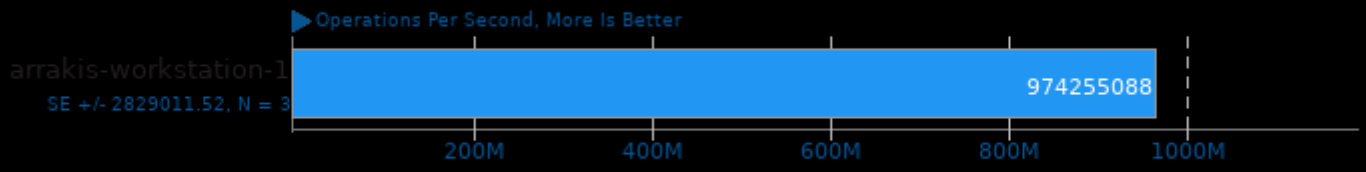
Poisson Pressure Solver



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

Swet 1.5.16

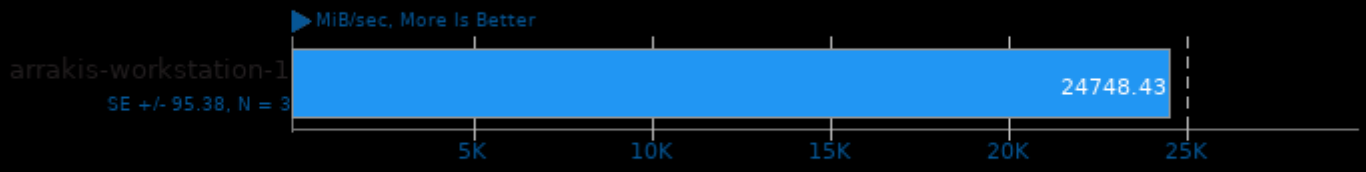
Average



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

Sysbench 1.0.20

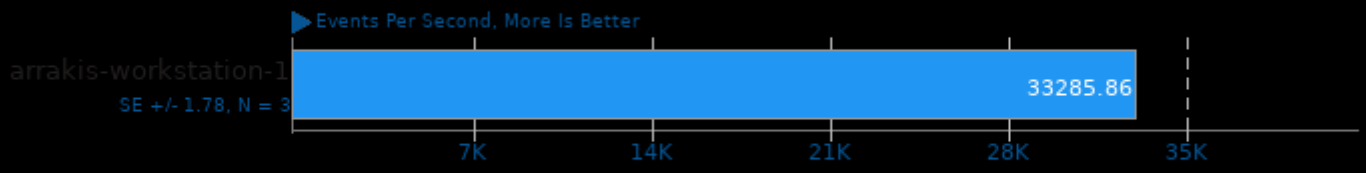
Test: Memory



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

Sysbench 1.0.20

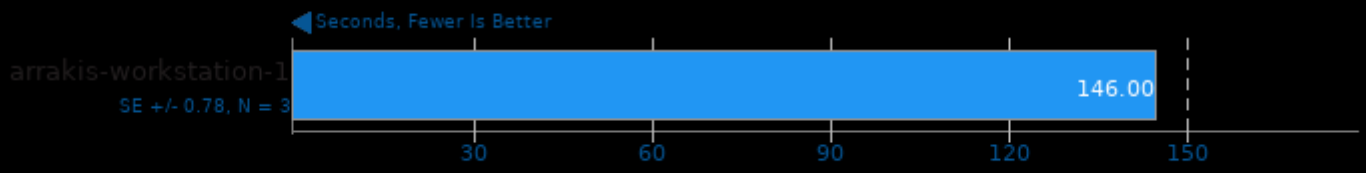
Test: CPU



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

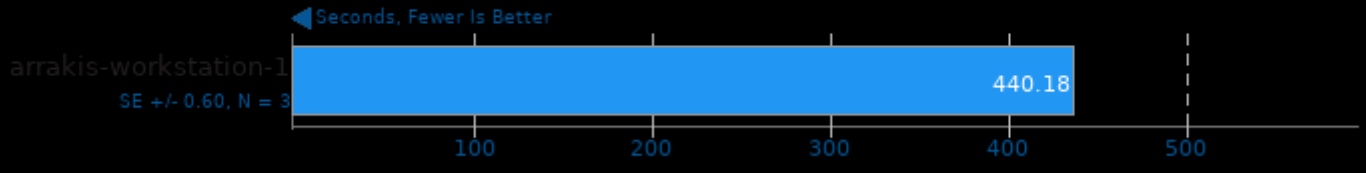
Blender 2.92

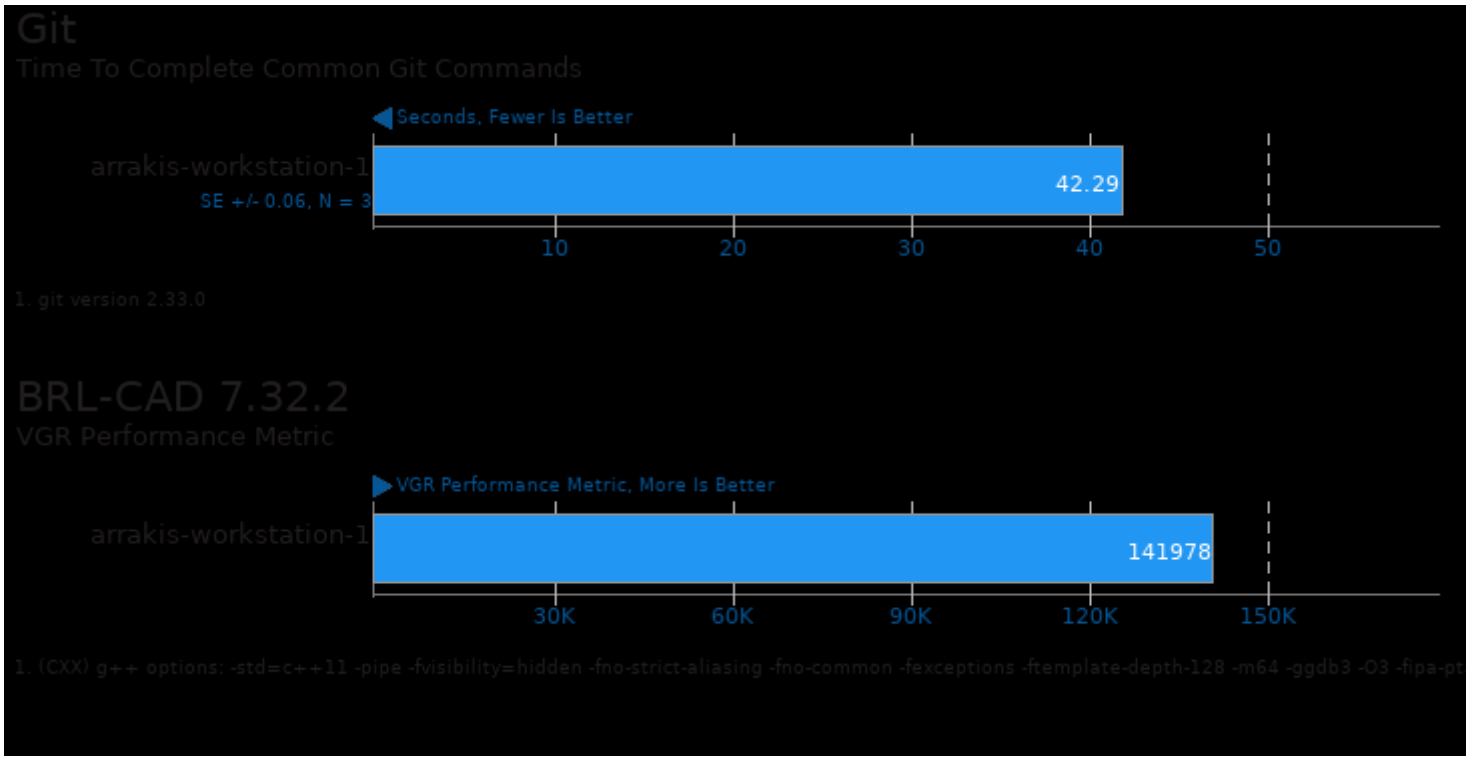
Blend File: BMW27 - Compute: CPU-Only



Blender 2.92

Blend File: Classroom - Compute: CPU-Only





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