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System76 Oryx Pro Gen6 System Suite

Intel Core i7-10875H testing with a System76 Oryx Pro (2020-10-19_d5deed5 BIOS) and Intel UHD on Pop 20.04 via the Phoronix Test Suite.

Test Systems:

System76 Oryx Pro Gen6 System Suite

Processor: Intel Core i7-10875H @ 5.10GHz (8 Cores / 16 Threads), Motherboard: System76 Oryx Pro (2020-10-19_d5deed5 BIOS), Chipset: Intel Comet Lake PCH, Memory: 32GB, Disk: 500GB Western Digital WDS500G2B0C-00PXH0 + Samsung SSD 970 EVO Plus 500GB, Graphics: Intel UHD (1200MHz), Audio: Realtek ALC1220, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX201

OS: Pop 20.04, Kernel: 5.8.0-7630-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 4.6 Mesa 20.0.8, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch

--enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xe0
Python Notes: Python 3.8.5
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 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

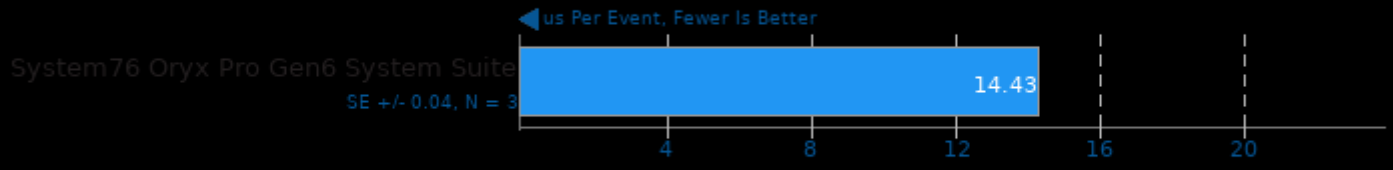
	System76 Oryx Pro Gen6 System Suite
OSBench - Create Files (us/Event)	14.434181
Standard Deviation	0.4%
OSBench - Create Threads (us/Event)	11.550585
Standard Deviation	2.2%
OSBench - Launch Programs (us/Event)	33.119678
Standard Deviation	5.1%
OSBench - Create Processes (us/Event)	20.922820
Standard Deviation	0.4%
OSBench - Memory Allocations (Ns/Event)	81.563314
Standard Deviation	0.2%
Rodinia - OpenMP LavaMD (sec)	347.894
Standard Deviation	1.3%
Rodinia - OpenMP HotSpot3D (sec)	119.946
Standard Deviation	1.6%
Rodinia - OpenMP Leukocyte (sec)	172.080
Standard Deviation	1.2%
Rodinia - OpenMP CFD Solver (sec)	27.139
Standard Deviation	1.2%
Rodinia - O.S (sec)	18.184
Standard Deviation	0.1%
x264 - H.2.V.E (FPS)	76.89
Standard Deviation	1.6%
x265 - Bosphorus 1080p (FPS)	47.02
Standard Deviation	2.2%
7-Zip Compression - C.S.T (MIPS)	42115
Standard Deviation	1.3%
Timed Linux Kernel Compilation - Time To Compile (sec)	120.105
Standard Deviation	0.3%
POV-Ray - Trace Time (sec)	71.001
Standard Deviation	1.4%
LAME MP3 Encoding - WAV To MP3 (sec)	9.888
Standard Deviation	0.1%
Radiance Benchmark - Serial (sec)	821.609
Radiance Benchmark - SMP Parallel (sec)	255.924
OpenSSL - R.4.b.P (Signs/sec)	2032
Standard Deviation	2.9%
Darktable - Boat - CPU-only (sec)	13.487
Standard Deviation	0.2%
Darktable - Masskrug - CPU-only (sec)	7.231
Standard Deviation	0.2%

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Darktable - Server Rack - CPU-only (sec)	0.18
Standard Deviation	0%
Darktable - Server Room - CPU-only (sec)	4.554
Standard Deviation	0.1%
Selenium - Octane - Firefox (Geometric Mean)	16591
Standard Deviation	0.3%
Selenium - Basemark - Firefox (Overall Score)	457.22
Standard Deviation	3.6%
Selenium - MotionMark - Firefox (Score)	72.92
Standard Deviation	26.4%
Selenium - Speedometer - Firefox (Runs/min)	85.27
Standard Deviation	0.2%
Git - T.T.C.C.G.C (sec)	57.783
Standard Deviation	0.8%

OSBench

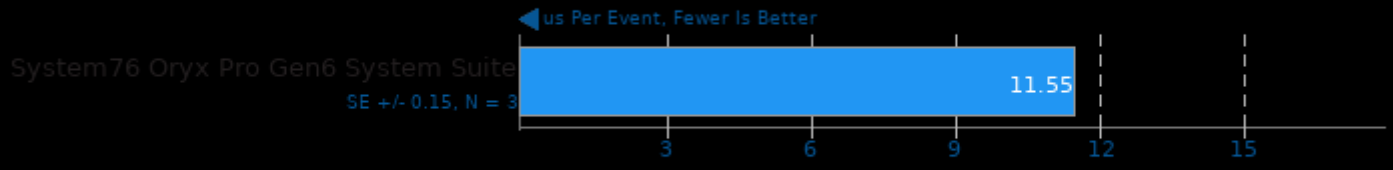
Test: Create Files



1. (CC) gcc options: -lm

OSBench

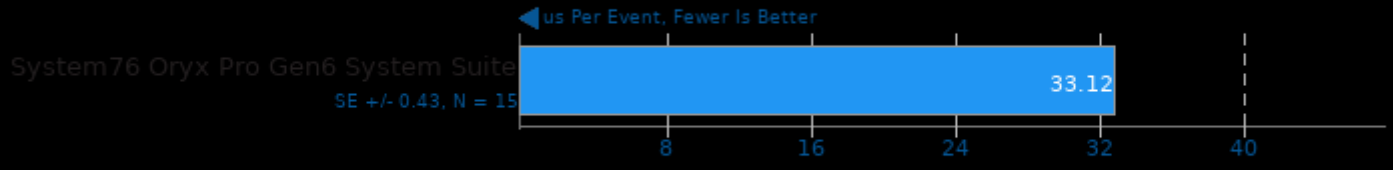
Test: Create Threads



1. (CC) gcc options: -lm

OSBench

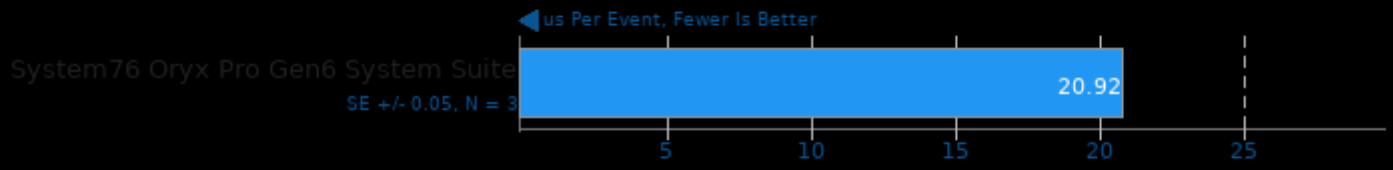
Test: Launch Programs



1. (CC) gcc options: -lm

OSBench

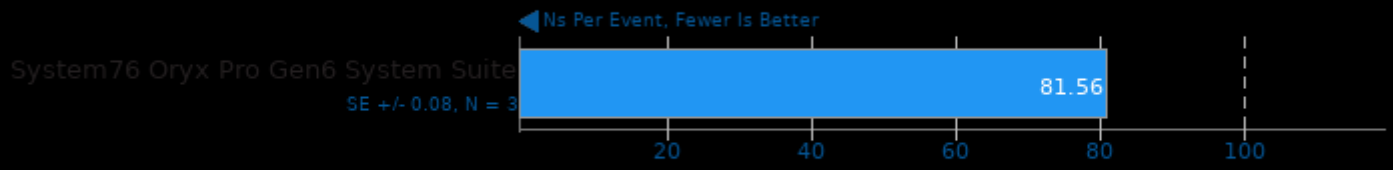
Test: Create Processes



1. (CC) gcc options: -lm

OSBench

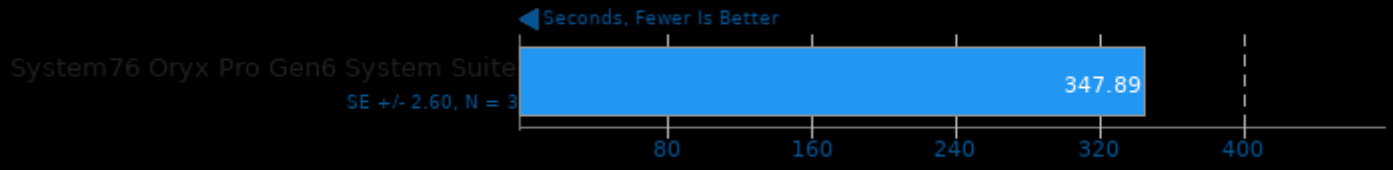
Test: Memory Allocations



1. (CC) gcc options: -lm

Rodinia 3.1

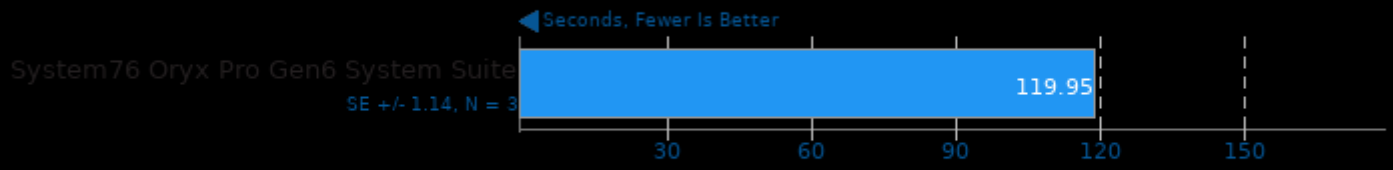
Test: OpenMP LavaMD



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

Rodinia 3.1

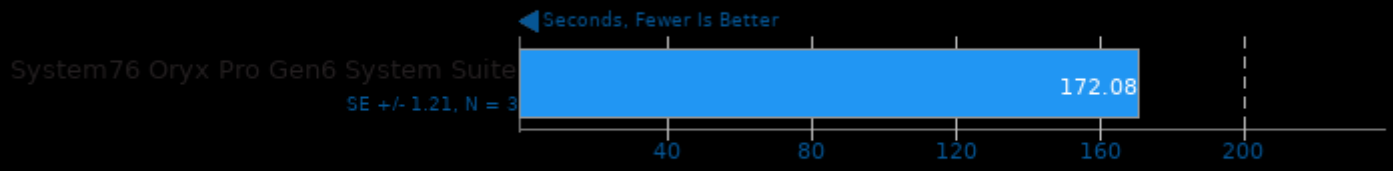
Test: OpenMP HotSpot3D



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

Rodinia 3.1

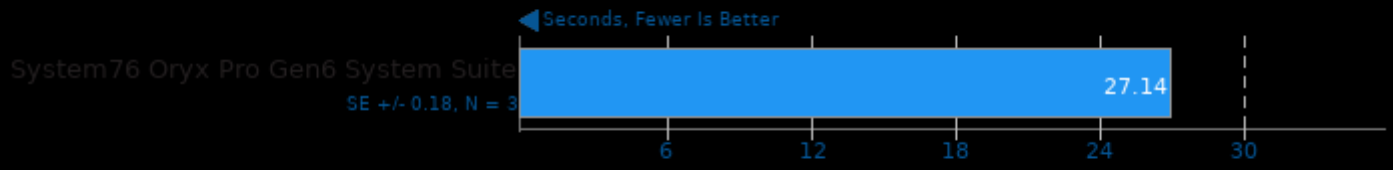
Test: OpenMP Leukocyte



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

Rodinia 3.1

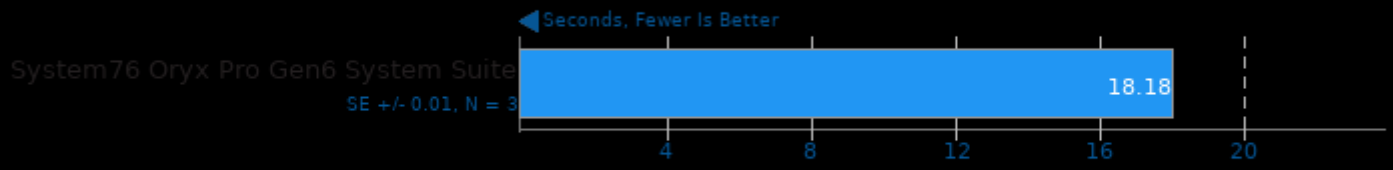
Test: OpenMP CFD Solver



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

Rodinia 3.1

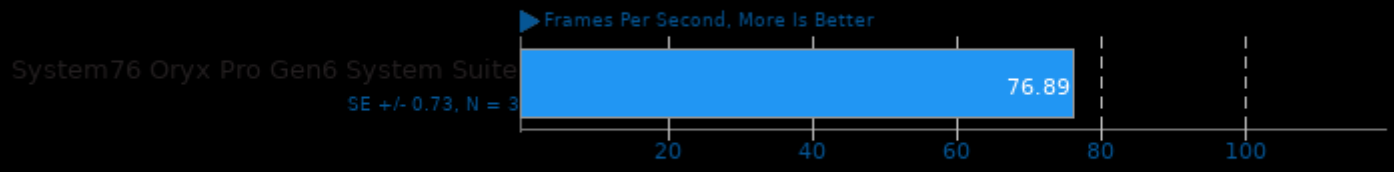
Test: OpenMP Streamcluster



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

x264 2019-12-17

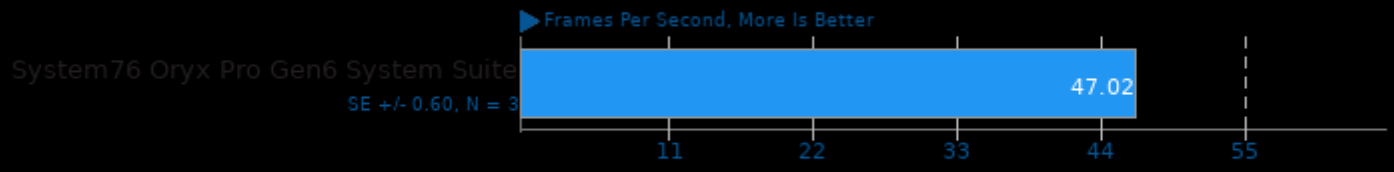
H.264 Video Encoding



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectorize

x265 3.4

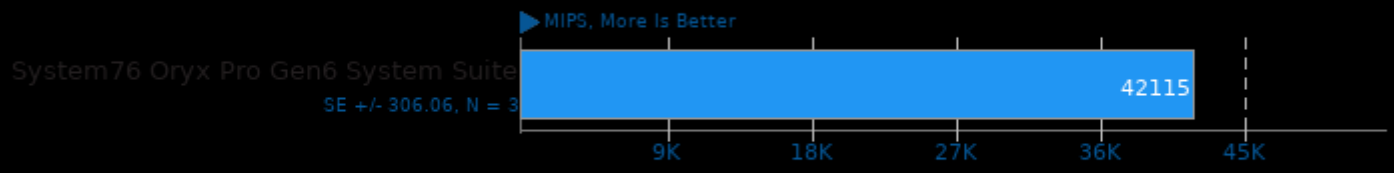
Video Input: Bosphorus 1080p



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

7-Zip Compression 16.02

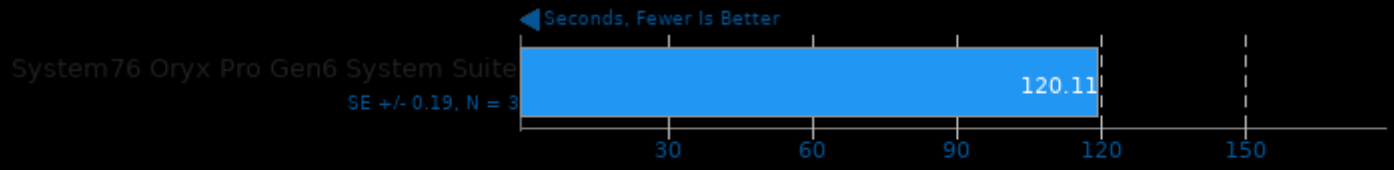
Compress Speed Test



1. (CXX) g++ options: -pipe -lpthread

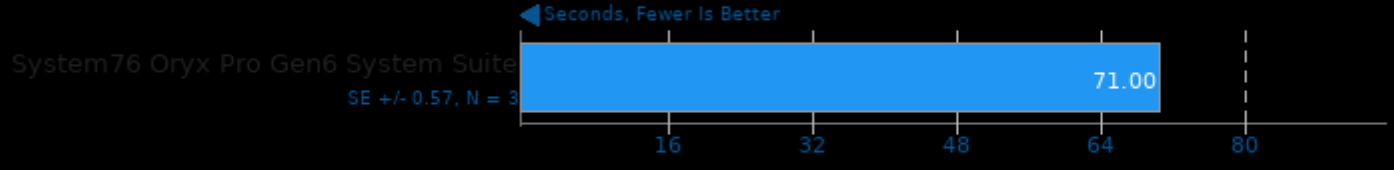
Timed Linux Kernel Compilation 5.4

Time To Compile



POV-Ray 3.7.0.7

Trace Time

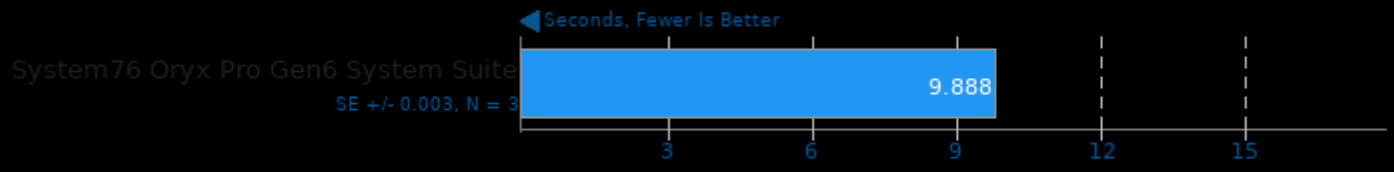


1. (CXX) g++ options: -pipe -O3 -ffast-math -march=native -pthread -lXpm -lSM -lICE -lX11 -ltiff -ljpeg -lpng -lz -lrt -lm -lboost_thread -lboost_system

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LAME MP3 Encoding 3.100

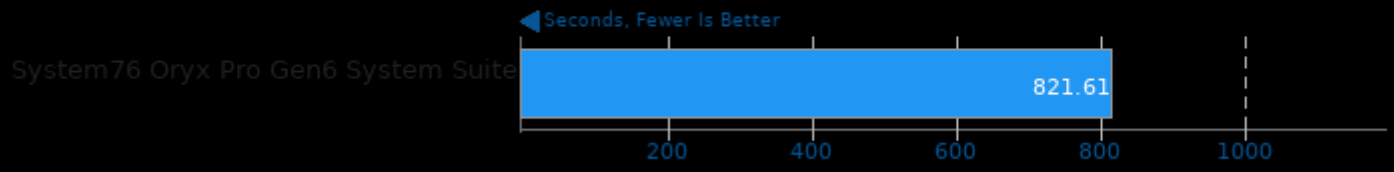
WAV To MP3



1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lm

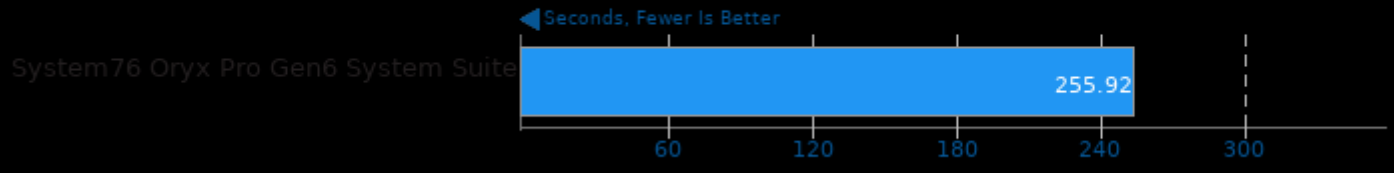
Radiance Benchmark 5.0

Test: Serial



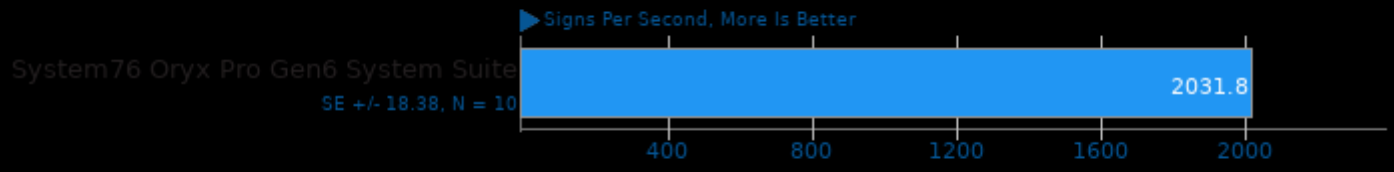
Radiance Benchmark 5.0

Test: SMP Parallel



OpenSSL 1.1.1

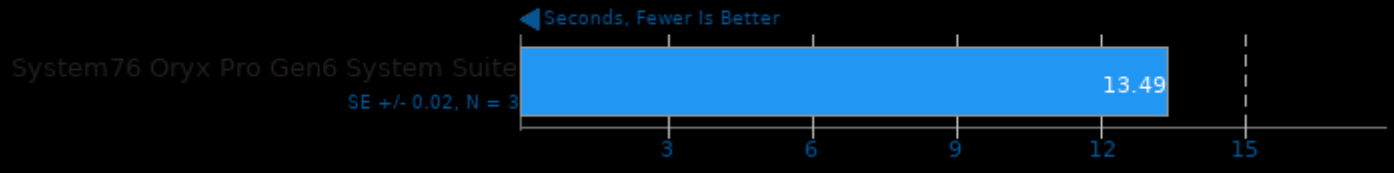
RSA 4096-bit Performance



1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl

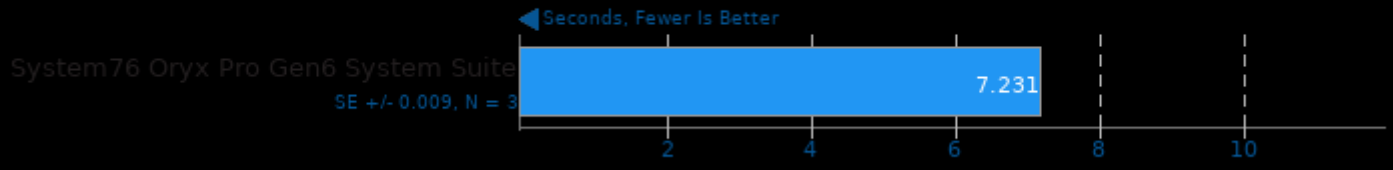
Darktable 3.0.1

Test: Boat - Acceleration: CPU-only



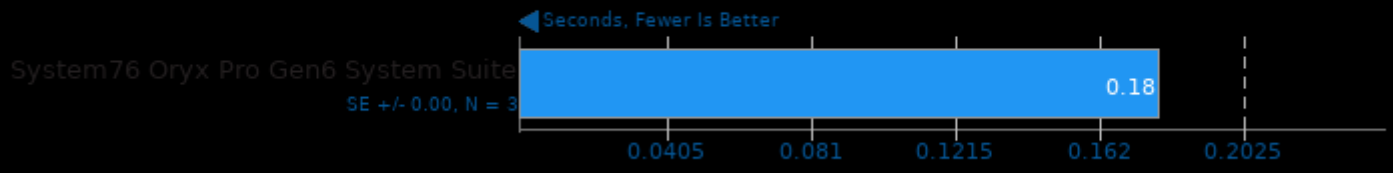
Darktable 3.0.1

Test: Masskrug - Acceleration: CPU-only



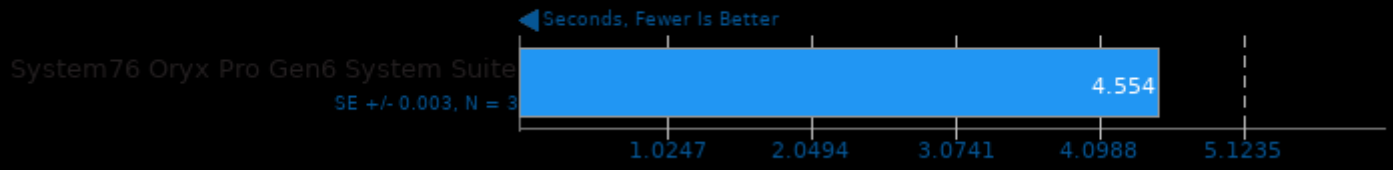
Darktable 3.0.1

Test: Server Rack - Acceleration: CPU-only



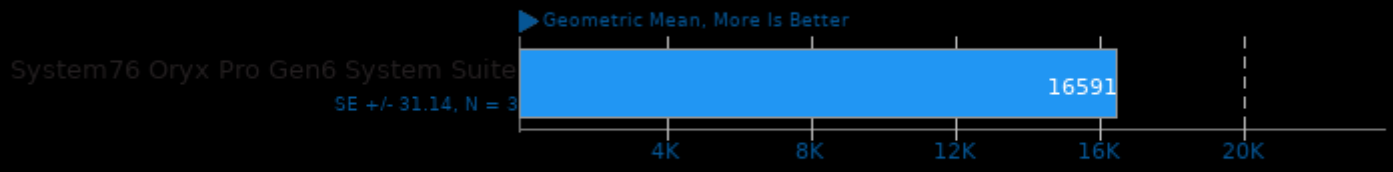
Darktable 3.0.1

Test: Server Room - Acceleration: CPU-only



Selenium

Benchmark: Octane - Browser: Firefox



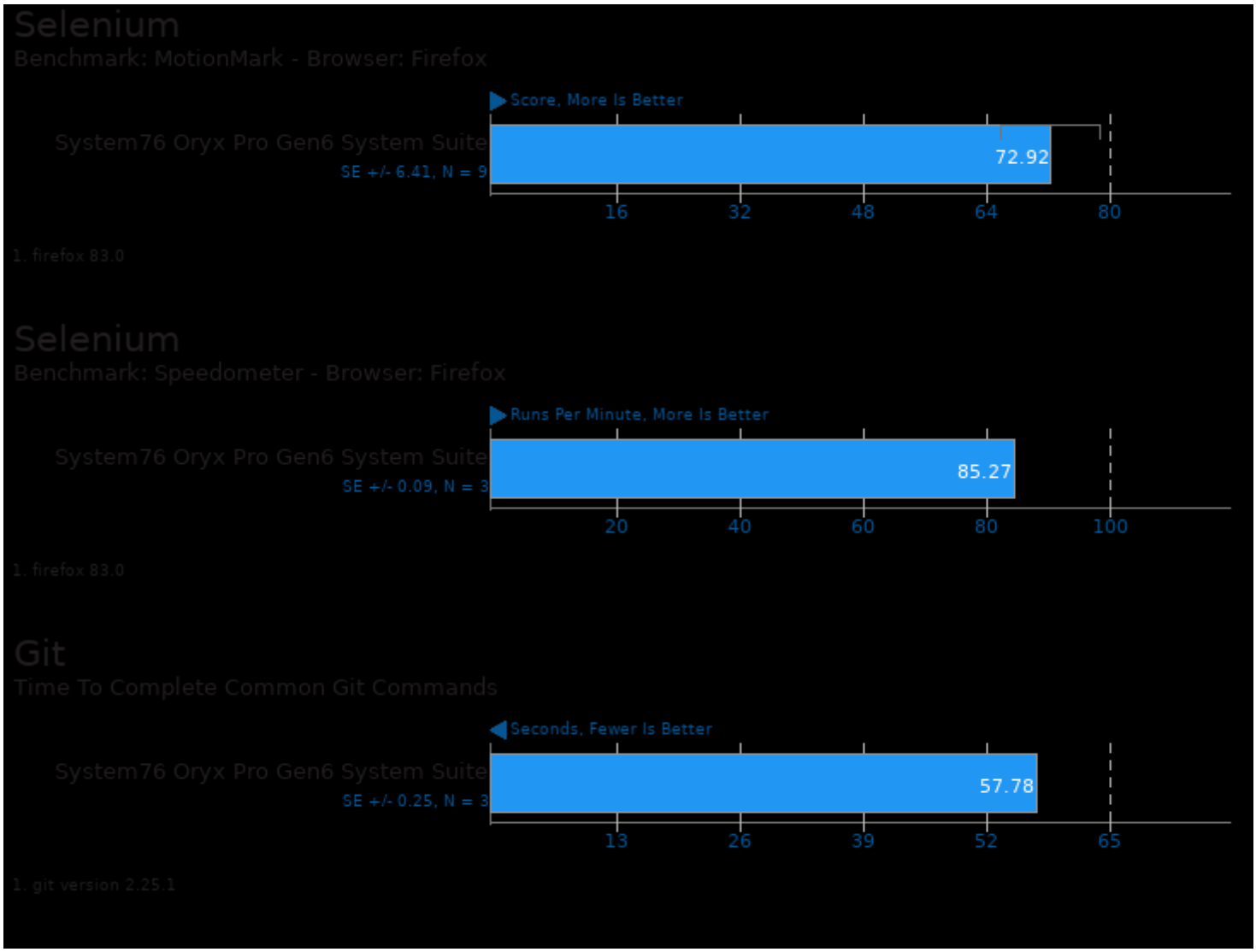
1. firefox 83.0

Selenium

Benchmark: Basemark - Browser: Firefox



1. firefox 83.0



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 00:54.