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Threadripper 2970WX

AMD Ryzen Threadripper 2970WX 24-Core testing with a Gigabyte X399 AORUS Gaming 7 (F12h BIOS) and Sapphire AMD Radeon RX 550 640SP / 560/560X 4GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

TR 2970WX

Processor: AMD Ryzen Threadripper 2970WX 24-Core @ 3.00GHz (24 Cores / 48 Threads), Motherboard: Gigabyte X399 AORUS Gaming 7 (F12h BIOS), Chipset: AMD 17h, Memory: 16GB, Disk: 120GB Force MP500, Graphics: Sapphire AMD Radeon RX 550 640SP / 560/560X 4GB (1300/1750MHz), Audio: Realtek ALC1220, Monitor: ASUS VP28U, Network: Qualcomm Atheros Killer E2500 + 2 x QLogic cLOM8214 1/10GbE + Intel 8265 / 8275

OS: Ubuntu 20.04, Kernel: 5.5.0-rc7-phx-k10temp6 (x86_64) 20200123, Desktop: GNOME Shell 3.34.1, Display Server: X Server 1.20.5, Display Driver: modesetting 1.20.5, OpenGL: 4.5 Mesa 19.2.4 (LLVM 9.0.0), Compiler: GCC 9.2.1 20191130, File-System: ext4, Screen Resolution: 3840x2160

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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-link-mutex

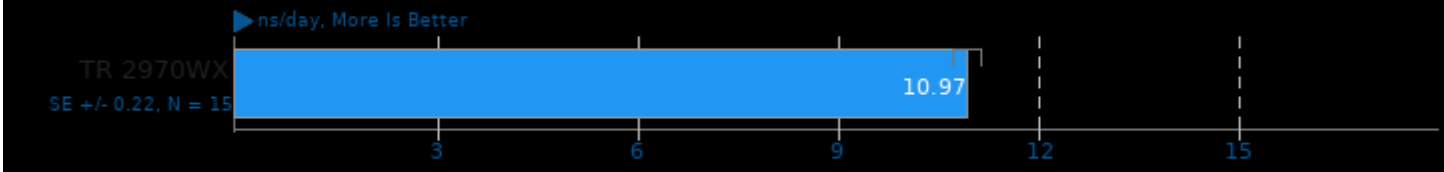
Threadripper 2970WX

--enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none,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-build-config=bootstrap-lto-lean --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: acpi-cpufreq ondemand - CPU Microcode: 0x800820d
Python Notes: Python 2.7.17 + Python 3.7.6
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 retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected

	TR 2970WX
LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein	10.968
Standard Deviation	7.9%
SVT-AV1 - Enc Mode 0 - 1080p (FPS)	0.102
Standard Deviation	0.4%
SVT-AV1 - Enc Mode 4 - 1080p (FPS)	4.957
Standard Deviation	1.2%
SVT-AV1 - Enc Mode 8 - 1080p (FPS)	40.630
Standard Deviation	0.9%
VP9 libvpx Encoding - Speed 0 (FPS)	5.54
Standard Deviation	1.1%
VP9 libvpx Encoding - Speed 5 (FPS)	17.15
Standard Deviation	0.8%
rays1bench - Large Scene (mrays/s)	93.79
Standard Deviation	2.2%
Numpy Benchmark (Score)	323.33
Standard Deviation	0.3%
GEGL - Crop (sec)	8.032
Standard Deviation	1.2%
GEGL - Scale (sec)	5.866
Standard Deviation	0.4%
GEGL - Cartoon (sec)	104.168
Standard Deviation	1.7%
GEGL - Reflect (sec)	31.704
Standard Deviation	1.5%
GEGL - Antialias (sec)	43.745
Standard Deviation	2.5%
GEGL - Tile Glass (sec)	34.053
Standard Deviation	0.1%
GEGL - Wavelet Blur (sec)	69.841
Standard Deviation	1.7%
GEGL - Color Enhance (sec)	62.498
Standard Deviation	2%
GEGL - Rotate 90 Degrees (sec)	41.113
Standard Deviation	1.4%
Inkscape - SVG Files To PNG (sec)	31.431
Standard Deviation	0.3%
Mlpack Benchmark - scikit_svm (sec)	11.86
Standard Deviation	0.6%
Scikit-Learn (sec)	23.755
Standard Deviation	0.3%

LAMMPS Molecular Dynamics Simulator 9Jan2020

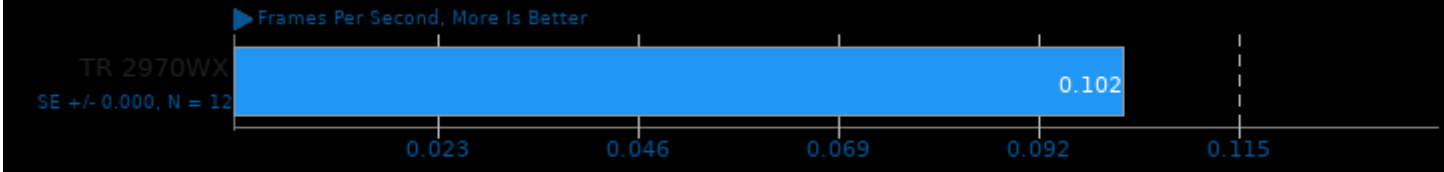
Model: Rhodopsin Protein



1. (CXX) g++ options: -O3 -rdynamic -lfftw3 -lm

SVT-AV1 0.8

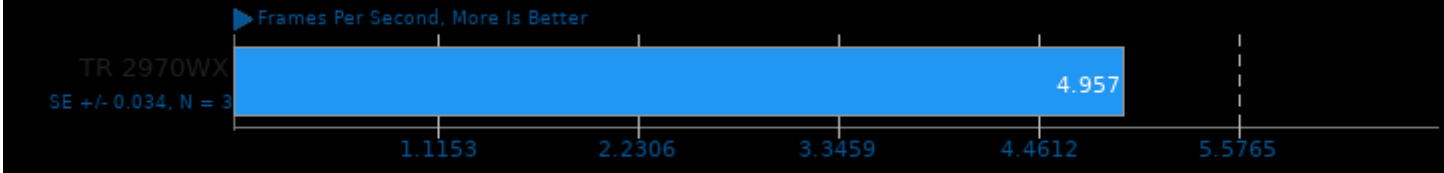
Encoder Mode: Enc Mode 0 - Input: 1080p



1. (CXX) g++ options: -fPIE -fPIC -pie

SVT-AV1 0.8

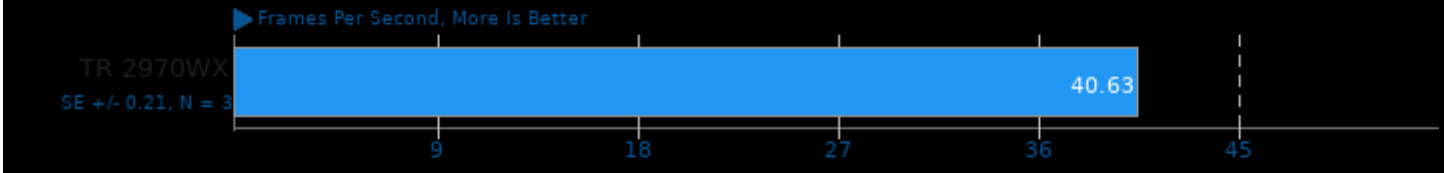
Encoder Mode: Enc Mode 4 - Input: 1080p



1. (CXX) g++ options: -fPIE -fPIC -pie

SVT-AV1 0.8

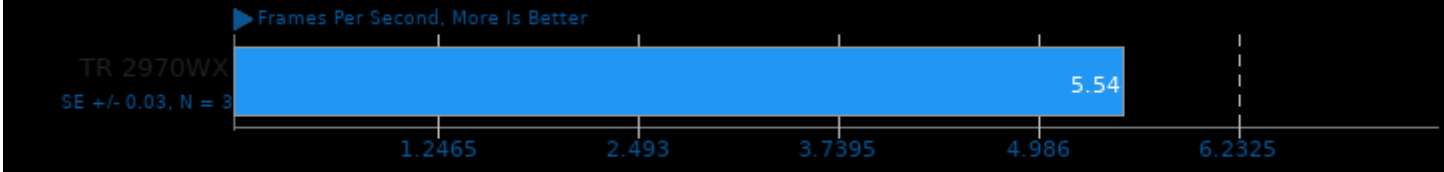
Encoder Mode: Enc Mode 8 - Input: 1080p



1. (CXX) g++ options: -fPIE -fPIC -pie

VP9 libvpx Encoding 1.8.2

Speed: Speed 0



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

VP9 libvpx Encoding 1.8.2

Speed: Speed 5



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

rays1bench 2020-01-09

Large Scene



Numpy Benchmark



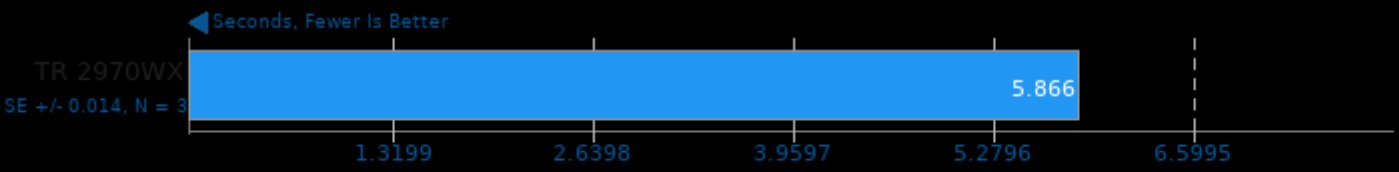
GEGL

Operation: Crop



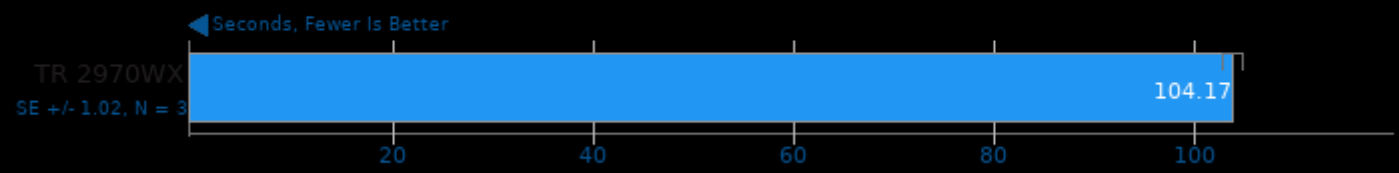
GEGL

Operation: Scale

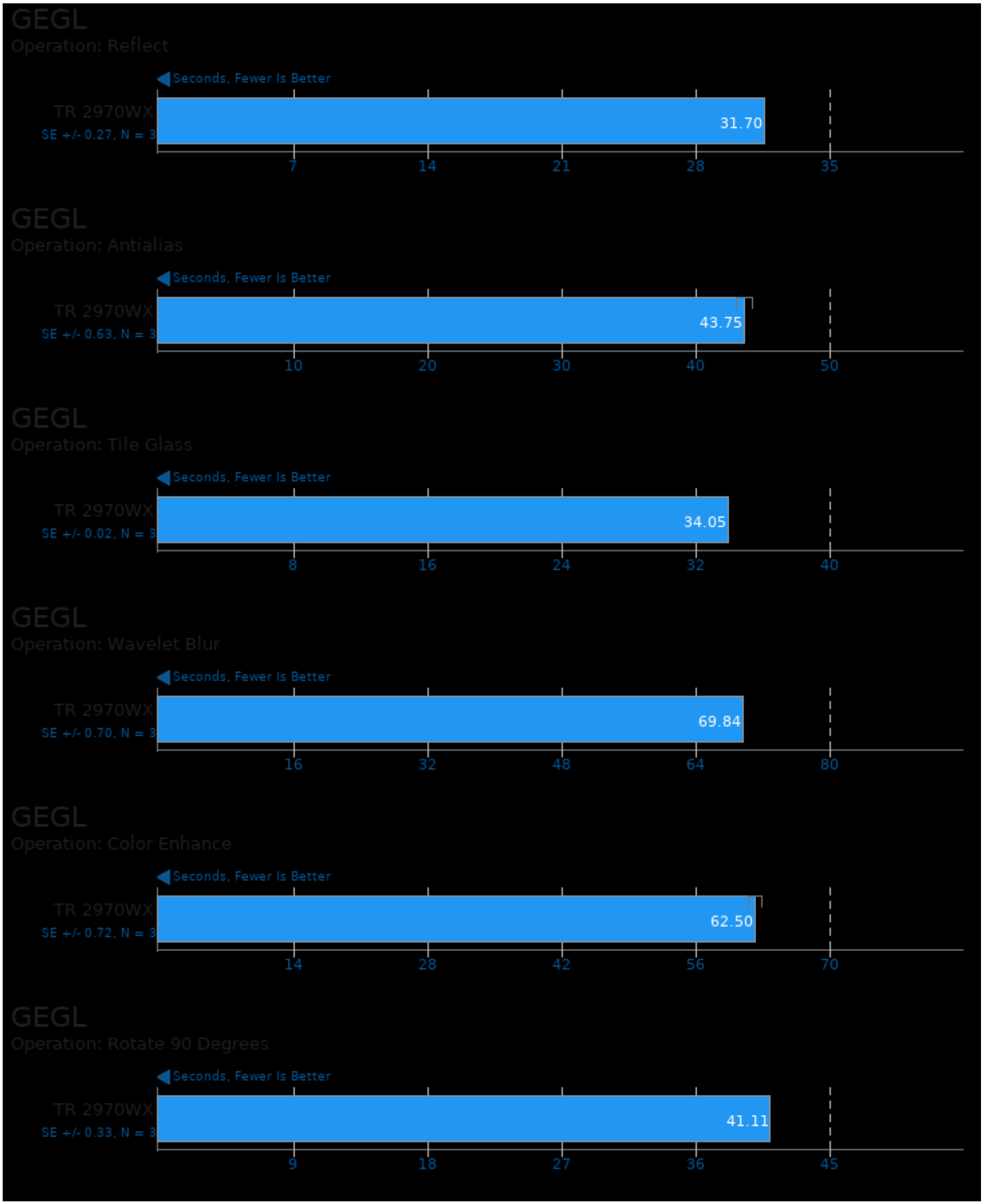


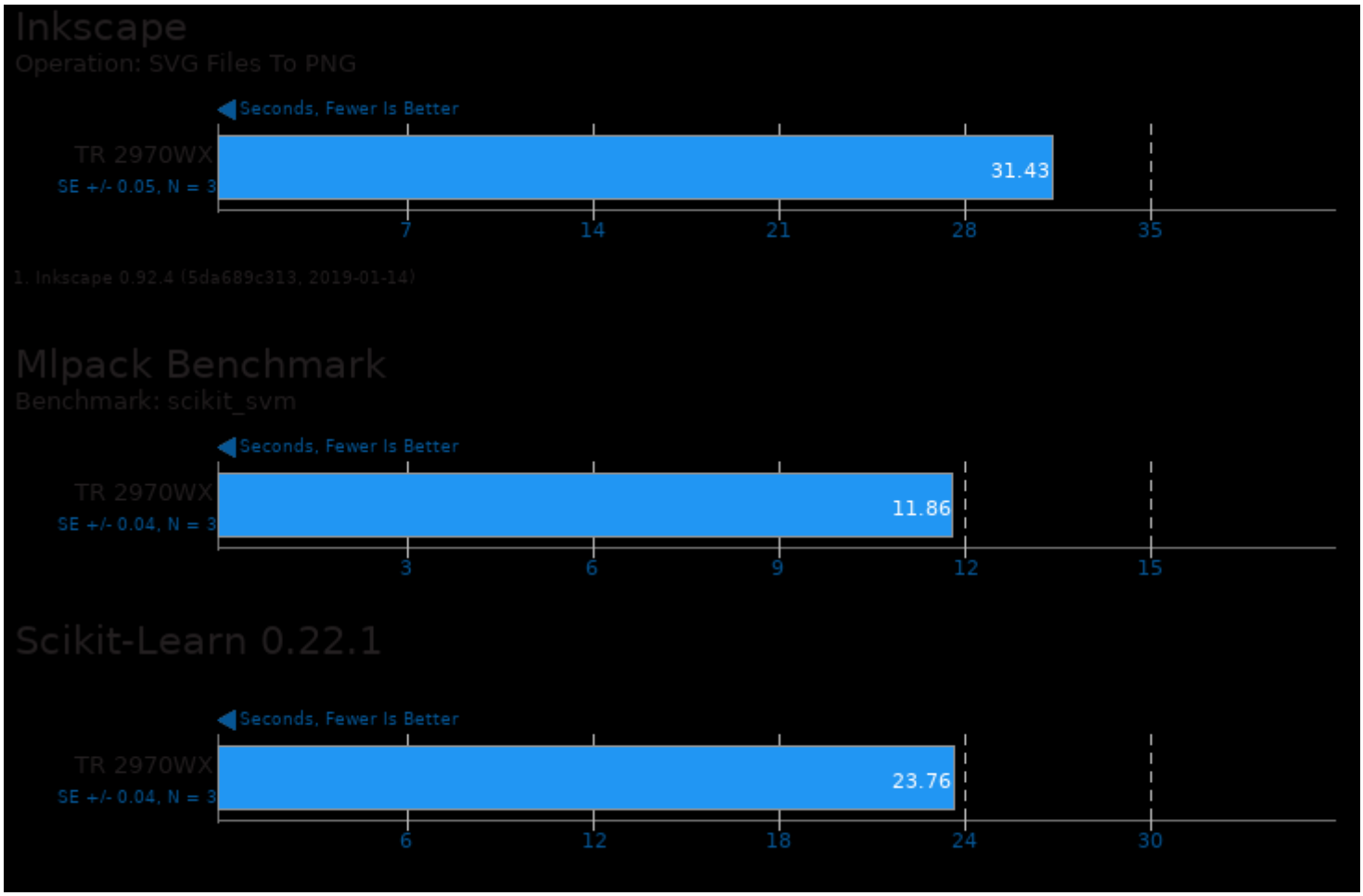
GEGL

Operation: Cartoon



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