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# vk

AMD Ryzen 5 3400G testing with a ASUS Pro WS X570-ACE (2206 BIOS) and AMD SIENNA_CICHLID 16GB on Gentoo 2.7 via the Phoronix Test Suite.

## Test Systems:

### AMD Ryzen 5 3400G - AMD SIENNA_CICHLID 16GB - ASUS

Processor: AMD Ryzen 5 3400G @ 3.70GHz (4 Cores / 8 Threads), Motherboard: ASUS Pro WS X570-ACE (2206 BIOS), Chipset: AMD Raven/Raven2, Memory: 64GB, Disk: Samsung SSD 970 EVO Plus 500GB + 2 x 2000GB Samsung SSD 860, Graphics: AMD SIENNA_CICHLID 16GB (2475/1000MHz), Audio: Realtek ALC1220, Monitor: S27A950D, Network: Intel I211 + Realtek RTL8111/8168/8411

OS: Gentoo 2.7, Kernel: 5.10.7-gentoo (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.8, Display Driver: amdgpu 19.1.0, OpenGL: 4.6 Mesa 21.0.0-rc1 (LLVM 11.0.0), OpenCL: OpenCL 2.0 AMD-APP.dbg (3212.0), Vulkan: 1.2.145, Compiler: Clang 11.0.0 + LLVM 11.0.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/9.3.0 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/9.3.0 --disable-esp --disable-fixed-point --disable-isl-version-check --disable-libada --disable-libssp --disable-systemtap --disable-werror --enable-__cxa_atexit --enable-checking=release

--enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-languages=c,c++,fortran --enable-libgomp --enable-libstdcxx-time --enable-lto --enable-multilib --enable-nls --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --enable-vtable-verify --host=x86_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86_64-pc-linux-gnu/9.3.0/include --mandir=/usr/share/gcc-data/x86_64-pc-linux-gnu/9.3.0/man --with-isl --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86_64-pc-linux-gnu/9.3.0/python
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8108109
Graphics Notes: GLAMOR
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 + srbds: Not affected + tsx_async_abort: Not affected

| | AMD Ryzen 5 3400G - AMD SIENNA_CICHLID 16GB - ASUS |
|---|---|
| **RealSR-NCNN - 4x - No (sec)** | 6.825 |
| **Standard Deviation** | 2% |
| **RealSR-NCNN - 4x - Yes (sec)** | 34.432 |
| **Standard Deviation** | 0.6% |
| **Waifu2x-NCNN Vulkan - 2x - 3 - Yes (sec)** | 3.856 |
| **Standard Deviation** | 0.8% |
| **VkFFT (Benchmark Score)** | 44725 |
| **Standard Deviation** | 2.1% |
| **Libplacebo - deband_heavy (FPS)** | 617.33 |
| **Standard Deviation** | 0.1% |
| **Libplacebo - polar_nocompute (FPS)** | 1510 |
| **Standard Deviation** | 0.1% |
| **Libplacebo - hdr_peakdetect (FPS)** | 6563 |
| **Standard Deviation** | 0.3% |
| **Libplacebo - av1_grain_lap (FPS)** | 482.23 |
| **Standard Deviation** | 4.2% |
| **Betsy GPU Compressor - ETC1 - Highest (sec)** | 4.739 |
| **Standard Deviation** | 31.1% |
| **Betsy GPU Compressor - ETC2 RGB - Highest (sec)** | 5.095 |
| **Standard Deviation** | 26.7% |
| **VkResample - 2x - Double (ms)** | 75.000 |
| **Standard Deviation** | 0% |
| **VkResample - 2x - Single (ms)** | 18.428 |
| **Standard Deviation** | 0% |
| **NCNN - Vulkan GPU - mobilenet (ms)** | 48.53 |
| **Standard Deviation** | 0.8% |
| **NCNN - Vulkan GPU-v2-v2 - mobilenet-v2 (ms)** | 12.89 |
| **Standard Deviation** | 3.6% |
| **NCNN - Vulkan GPU-v3-v3 - mobilenet-v3 (ms)** | 10.75 |
| **Standard Deviation** | 4.1% |
| **NCNN - Vulkan GPU - shufflenet-v2 (ms)** | 12.43 |
| **Standard Deviation** | 1.3% |
| **NCNN - Vulkan GPU - mnasnet (ms)** | 11.88 |
| **Standard Deviation** | 1.1% |
| **NCNN - Vulkan GPU - efficientnet-b0 (ms)** | 18.35 |
| **Standard Deviation** | 2.9% |
| **NCNN - Vulkan GPU - blazeface (ms)** | 3.25 |
| **Standard Deviation** | 5.5% |
| **NCNN - Vulkan GPU - googlenet (ms)** | 35.59 |
| **Standard Deviation** | 5.1% |

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|---|---|
| **NCNN - Vulkan GPU - vgg16 (ms)** | 119.64 |
| **Standard Deviation** | 0.1% |
| **NCNN - Vulkan GPU - resnet18 (ms)** | 30.35 |
| **Standard Deviation** | 2.7% |
| **NCNN - Vulkan GPU - alexnet (ms)** | 25.17 |
| **Standard Deviation** | 0.2% |
| **NCNN - Vulkan GPU - resnet50 (ms)** | 80.18 |
| **Standard Deviation** | 0% |
| **NCNN - Vulkan GPU - yolov4-tiny (ms)** | 57.23 |
| **Standard Deviation** | 7.4% |
| **NCNN - Vulkan GPU - squeezenet_ssd (ms)** | 44.75 |
| **Standard Deviation** | 3.4% |
| **NCNN - Vulkan GPU - regnety_400m (ms)** | 22.57 |
| **Standard Deviation** | 2.9% |

## RealSR-NCNN 20200818

Scale: 4x - TAA: No




## RealSR-NCNN 20200818

Scale: 4x - TAA: Yes




## Waifu2x-NCNN Vulkan 20200818

Scale: 2x - Denoise: 3 - TAA: Yes




## VkFFT 1.1.1




1. (CXX) g++ options: -O3 -pthread

## Libplacebo 2.72.2

Test: deband_heavy




1. (CXX) g++ options: -lm -lglslang -lHLSL -lOGLCompiler -lOSDependent -lSPIRV -lSPVRemapper -lSPIRV-Tools -lSPIRV-Tools-opt -lpthread -pthread -pipe -

## Libplacebo 2.72.2

Test: polar_nocompute




1. (CXX) g++ options: -lm -lglslang -lHLSL -lOGLCompiler -lOSDependent -lSPIRV -lSPVRemapper -lSPIRV-Tools -lSPIRV-Tools-opt -lpthread -pthread -pipe -

## Libplacebo 2.72.2

Test: hdr_peakdetect




1. (CXX) g++ options: -lm -lglslang -lHLSL -lOGLCompiler -lOSDependent -lSPIRV -lSPVRemapper -lSPIRV-Tools -lSPIRV-Tools-opt -lpthread -pthread -pipe -

## Libplacebo 2.72.2

Test: av1_grain_lap




1. (CXX) g++ options: -lm -lglslang -lHLSL -lOGLCompiler -lOSDependent -lSPIRV -lSPVRemapper -lSPIRV-Tools -lSPIRV-Tools-opt -lpthread -pthread -pipe -

## Betsy GPU Compressor 1.1 Beta

Codec: ETC1 - Quality: Highest




1. (CXX) g++ options: -O3 -O2 -lpthread -ldl

## Betsy GPU Compressor 1.1 Beta

Codec: ETC2 RGB - Quality: Highest




1. (CXX) g++ options: -O3 -O2 -lpthread -ldl

## VkResample 1.0

Upscale: 2x - Precision: Double




1. (CXX) g++ options: -O3 -pthread

## VkResample 1.0

Upscale: 2x - Precision: Single




1. (CXX) g++ options: -O3 -pthread

## NCNN 20201218

Target: Vulkan GPU - Model: mobilenet




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU-v2-v2 - Model: mobilenet-v2




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU-v3-v3 - Model: mobilenet-v3




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU - Model: shufflenet-v2




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU - Model: mnasnet




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU - Model: efficientnet-b0




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU - Model: blazeface




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU - Model: googlenet




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU - Model: vgg16




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU - Model: resnet18




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU - Model: alexnet



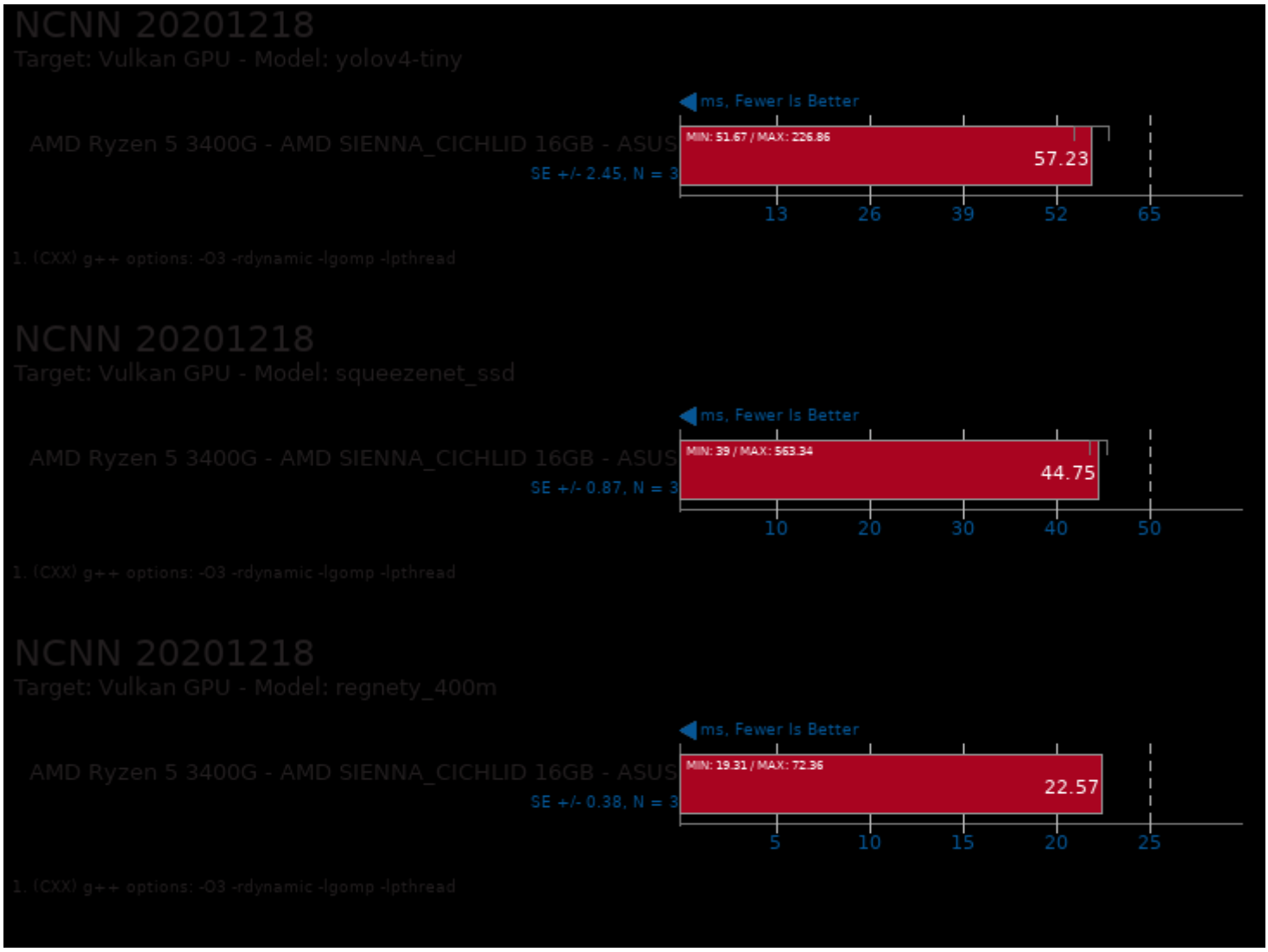

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20201218

Target: Vulkan GPU - Model: resnet50




1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread




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