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Test Systems:

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Processor: AMD Ryzen 5 3600 6-Core @ 4.35GHz (6 Cores / 12 Threads), Motherboard: MSI B450M PRO-M2 MAX (MS-7B84) v2.0 (A.70 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB CT1000P1SSD8 + 256GB SAMSUNG SSD 830 + 2000GB Seagate ST2000DM006-2DM1, Graphics: eVGA NVIDIA GeForce GTX 1660 SUPER 6GB (645/810MHz), Audio: NVIDIA TU116 HD Audio, Monitor: BenQ GL2250, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.4.0-48-generic (x86_64), Desktop: KDE Plasma 5.18.5, Display Server: X Server 1.20.8, Display Driver: NVIDIA 450.66, OpenGL: 4.6.0, Vulkan: 1.2.133, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

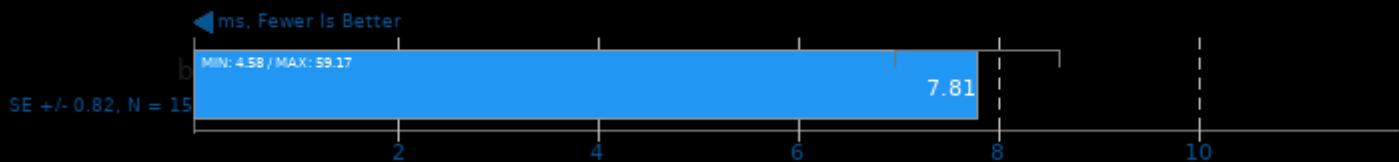
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none,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: acpi-cpufreq ondemand - CPU Microcode: 0x8701021
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: conditional RSB filling + srbs: Not affected + tsx_async_abort: Not affected
```

NCNN - Vulkan GPU - squeezenet (ms)	7.81
Standard Deviation	40.5%
NCNN - Vulkan GPU - mobilenet (ms)	8.27
Standard Deviation	36.3%
NCNN - Vulkan GPU-v2-v2 - mobilenet-v2 (ms)	2.64
Standard Deviation	41.9%
NCNN - Vulkan GPU-v3-v3 - mobilenet-v3 (ms)	2.74
Standard Deviation	37.8%
NCNN - Vulkan GPU - shufflenet-v2 (ms)	2.23
Standard Deviation	42.2%
NCNN - Vulkan GPU - mnasnet (ms)	2.62
Standard Deviation	40.2%
NCNN - Vulkan GPU - efficientnet-b0 (ms)	4.16
Standard Deviation	32.4%
NCNN - Vulkan GPU - blazeface (ms)	1.16
Standard Deviation	53%
NCNN - Vulkan GPU - googlenet (ms)	5.46
Standard Deviation	31.5%
NCNN - Vulkan GPU - vgg16 (ms)	15.74
Standard Deviation	13.8%
NCNN - Vulkan GPU - resnet18 (ms)	3.41
Standard Deviation	33.4%
NCNN - Vulkan GPU - alexnet (ms)	4.37
Standard Deviation	34.3%
NCNN - Vulkan GPU - resnet50 (ms)	8.62
Standard Deviation	28.9%
NCNN - Vulkan GPU - yolov4-tiny (ms)	13.98
Standard Deviation	32.2%

NCNN 20200916

Target: Vulkan GPU - Model: squeezenet

**NCNN 20200916**

Target: Vulkan GPU - Model: mobilenet

**NCNN 20200916**

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

**NCNN 20200916**

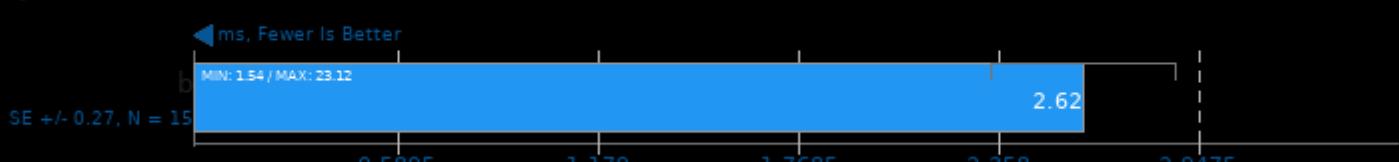
Target: Vulkan GPU-v3-v3 - Model: mobilenet-v3

**NCNN 20200916**

Target: Vulkan GPU - Model: shufflenet-v2

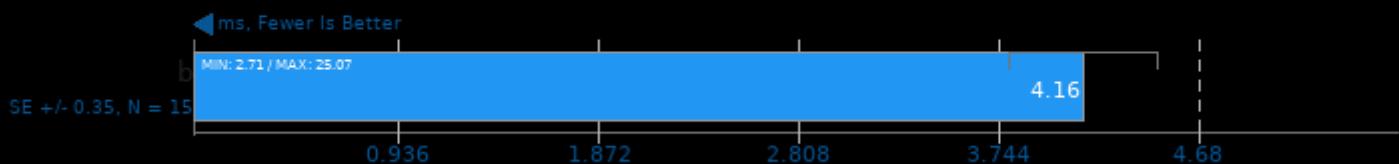
**NCNN 20200916**

Target: Vulkan GPU - Model: mnasnet



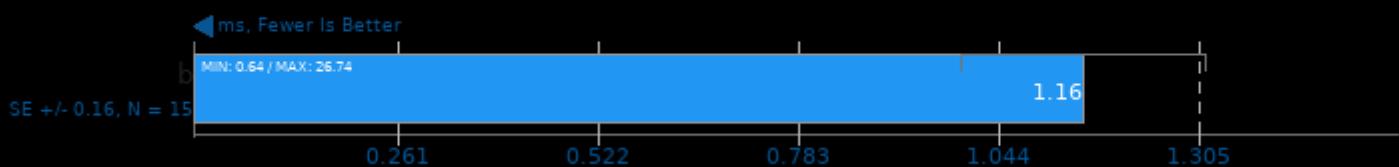
NCNN 20200916

Target: Vulkan GPU - Model: efficientnet-b0



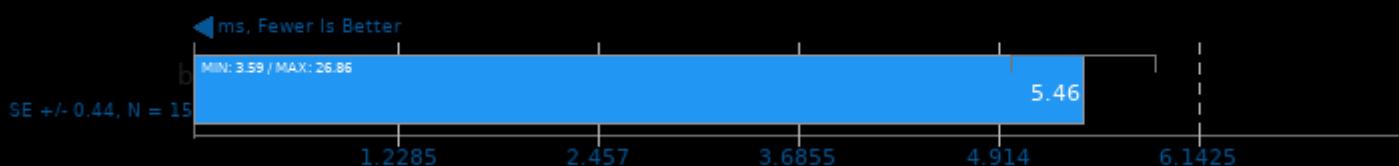
NCNN 20200916

Target: Vulkan GPU - Model: blazeface



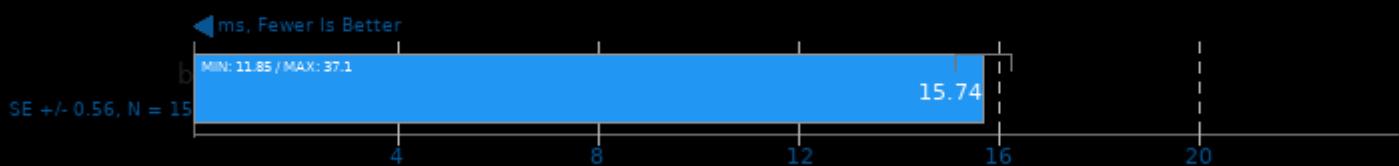
NCNN 20200916

Target: Vulkan GPU - Model: googlenet



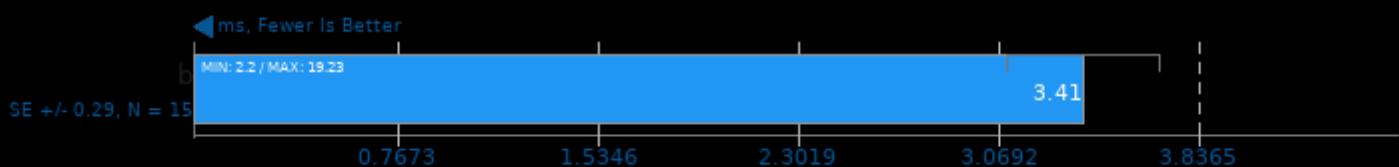
NCNN 20200916

Target: Vulkan GPU - Model: vgg16



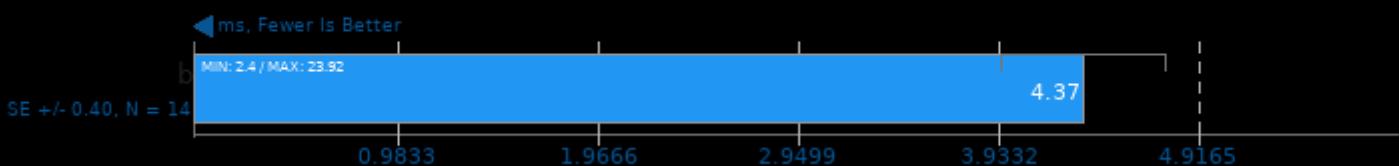
NCNN 20200916

Target: Vulkan GPU - Model: resnet18



NCNN 20200916

Target: Vulkan GPU - Model: alexnet



NCNN 20200916

Target: Vulkan GPU - Model: resnet50

**NCNN 20200916**

Target: Vulkan GPU - Model: yolov4-tiny



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