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tests

Intel Xeon E5-1680 v3 testing with a ASUS X99-A (3902 BIOS) and eVGA NVIDIA NVE7 1GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

Intel Xeon E5-1680 v3 - eVGA NVIDIA NVE7 1GB - ASUS

Processor: Intel Xeon E5-1680 v3 @ 3.80GHz (8 Cores / 16 Threads), Motherboard: ASUS X99-A (3902 BIOS), Chipset: Intel Xeon E7 v3/Xeon, Memory: 16GB, Disk: PNY CS900 240GB, Graphics: eVGA NVIDIA NVE7 1GB, Audio: Realtek ALC1150, Monitor: G237HL, Network: Intel I218-V

OS: Ubuntu 20.04, Kernel: 5.4.0-47-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 4.3 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,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: 0x43  
Security Notes: itlb_multihit: KVM: Vulnerable + I1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI +  
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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbs: Not affected + tsx_async_abort: Not affected
```

Intel Xeon E5-1680 v3 - eVGA**NVIDIA NVE7 1GB - ASUS**

NCNN - CPU - squeezenet_int8 (ms)	19.27
Standard Deviation	0.7%
NCNN - CPU - mobilenet_v3 (ms)	5.47
Standard Deviation	0.2%
NCNN - CPU - squeezenet (ms)	4.58
Standard Deviation	0.5%
NCNN - CPU - mnasnet (ms)	5.49
Standard Deviation	1.6%
NCNN - CPU - blazeface (ms)	2.08
Standard Deviation	4%
NCNN - CPU - googlenet_int8 (ms)	53.21
Standard Deviation	0.3%
NCNN - CPU - vgg16_int8 (ms)	135.97
Standard Deviation	0.3%
NCNN - CPU - resnet18_int8 (ms)	25.15
Standard Deviation	0.1%
NCNN - CPU - alexnet (ms)	12.25
Standard Deviation	0.1%
NCNN - CPU - resnet50_int8 (ms)	90.82
Standard Deviation	0%
NCNN - CPU - mobilenetv2_yolov3 (ms)	20.61
Standard Deviation	1.5%
Kripke (Throughput FoM)	2476331
Standard Deviation	8.3%

NCNN 20200916

Target: CPU - Model: squeezenet_int8



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

NCNN 20200916

Target: CPU - Model: mobilenet_v3



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

NCNN 20200916

Target: CPU - Model: squeezenet



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

NCNN 20200916

Target: CPU - Model: mnasnet



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

NCNN 20200916

Target: CPU - Model: blazeface



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

NCNN 20200916

Target: CPU - Model: googlenet_int8



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

NCNN 20200916

Target: CPU - Model: vgg16_int8



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

NCNN 20200916

Target: CPU - Model: resnet18_int8



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

NCNN 20200916

Target: CPU - Model: alexnet



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

NCNN 20200916

Target: CPU - Model: resnet50_int8



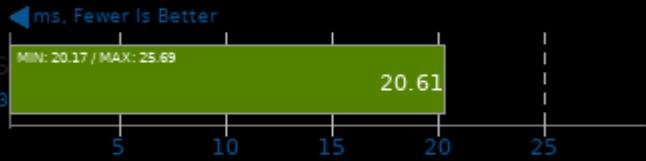
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

NCNN 20200916

Target: CPU - Model: mobilenetv2_yolov3

Intel Xeon E5-1680 v3 - eVGA NVIDIA NVE7 1GB - ASUS

SE +/- 0.18, N = 3

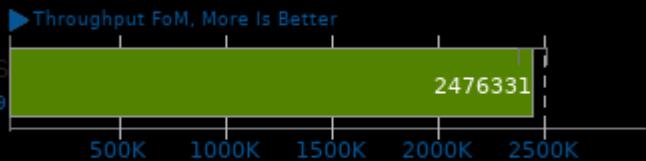


1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

Kripke 1.2.4

Intel Xeon E5-1680 v3 - eVGA NVIDIA NVE7 1GB - ASUS

SE +/- 68622.20, N = 9



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

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