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Intel Core i9-8950HK testing with a MSI MS-17A3 (E17A3IMS.113 BIOS) and MSI NVIDIA GeForce GTX 1080 8GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

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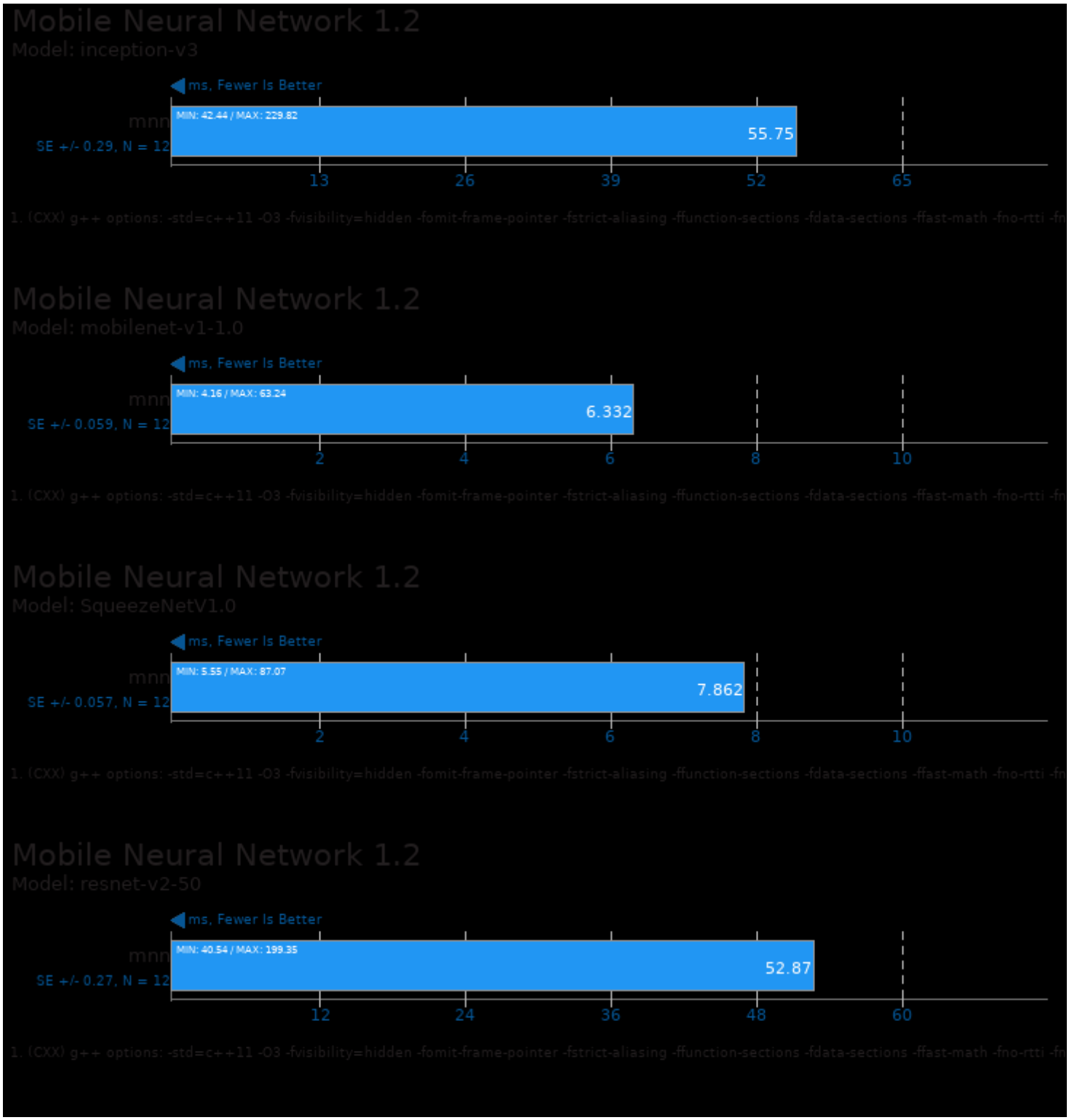
mnn

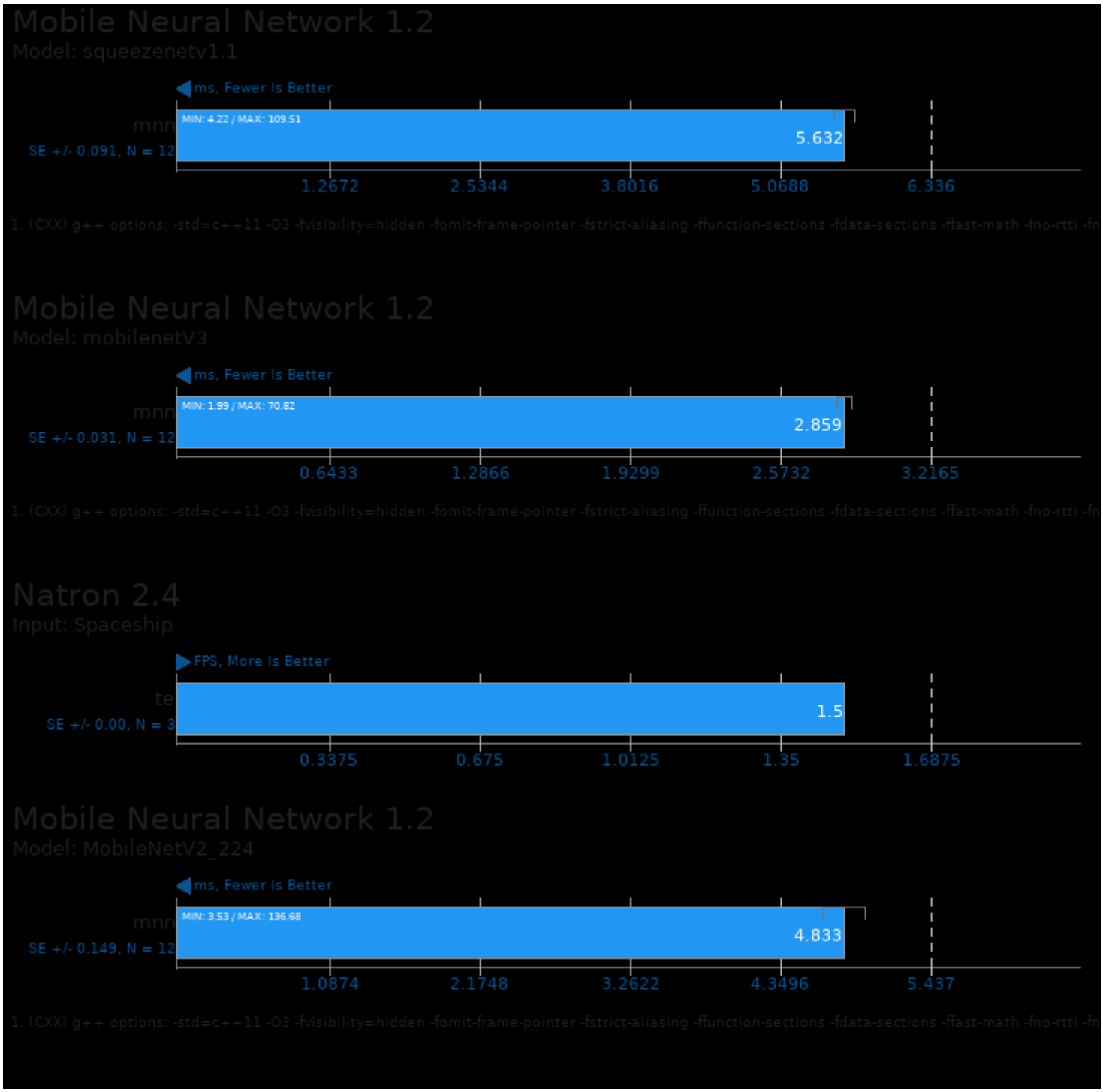
Processor: Intel Core i9-8950HK @ 4.80GHz (6 Cores / 12 Threads), Motherboard: MSI MS-17A3 (E17A3IMS.113 BIOS), Chipset: Intel Cannon Lake PCH, Memory: 64GB, Disk: 512GB SAMSUNG MZVLW512HMJP-00000 + 2000GB Sabrent Rocket 4.0 2TB + 1000GB HGST HTS721010A9, Graphics: MSI NVIDIA GeForce GTX 1080 8GB, Audio: Realtek ALC1220, Monitor: 2 x HP LP2480zx, Network: Aquantia AQC107 NBase-T/IEEE + Intel-AC 9260

OS: Ubuntu 20.04, Kernel: 5.8.0-63-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.9, Display Driver: NVIDIA 460.91.03, OpenGL: 4.6.0, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2400

Kernel Notes: nvme_core.default_ps_max_latency_us=0 kvm.ignore_msrs=1 - Transparent Huge Pages: madvise
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: 0xea - Thermald 1.9.1
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + 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 + srbds: Mitigation of Microcode + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

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Mobile Neural Network - inception-v3 (ms)		55.750
Standard Deviation		1.8%
Mobile Neural Network - mobilenet-v1-1.0 (ms)		6.332
Standard Deviation		3.2%
Mobile Neural Network - SqueezeNetV1.0 (ms)		7.862
Standard Deviation		2.5%
Mobile Neural Network - resnet-v2-50 (ms)		52.865
Standard Deviation		1.8%
Mobile Neural Network - squeezenetv1.1 (ms)		5.632
Standard Deviation		5.6%
Mobile Neural Network - mobilenetV3 (ms)		2.859
Standard Deviation		3.8%
Natron - Spaceship (FPS)	1.5	
Standard Deviation	0%	
Mobile Neural Network - MobileNetV2_224 (ms)		4.833
Standard Deviation		10.7%


Mobile Neural Network 1.2
Model: inception-v3
ms, Fewer Is Better
mnn
MIN: 42.44 / MAX: 229.82
55.75
SE +/- 0.29, N = 12
13
26
39
52
65
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fr
Mobile Neural Network 1.2
Model: mobilenet-v1-1.0
ms, Fewer Is Better
mnn
MIN: 4.16 / MAX: 63.24
6.332
SE +/- 0.059, N = 12
2
4
6
8
10
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fr
Mobile Neural Network 1.2
Model: SqueezeNetV1.0
ms, Fewer Is Better
mnn
MIN: 5.55 / MAX: 87.07
7.862
SE +/- 0.057, N = 12
2
4
6
8
10
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fr
Mobile Neural Network 1.2
Model: resnet-v2-50
ms, Fewer Is Better
mnn
MIN: 40.54 / MAX: 199.35
52.87
SE +/- 0.27, N = 12
12
24
36
48
60
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fr



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 20:34.