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new tests icelake

Intel Core i7-1065G7 testing with a Dell 06CDVY (1.0.9 BIOS) and Intel Iris Plus G7 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

Intel Killer Wi-Fi 6 AX1650i 160MHz

Processor: Intel Core i7-1065G7 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: Dell 06CDVY (1.0.9 BIOS), Chipset: Intel Device 34ef, Memory: 16GB, Disk: KBG40ZPZ512G NVMe TOSHIBA 512GB, Graphics: Intel Iris Plus G7 3GB (1100MHz), Audio: Realtek ALC289, Network: Intel Killer Wi-Fi 6 AX1650i 160MHz

OS: Ubuntu 20.04, Kernel: 5.4.0-33-generic (x86_64), Desktop: GNOME Shell 3.36.2, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 4.6 Mesa 20.0.4, Vulkan: 1.2.131, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1200

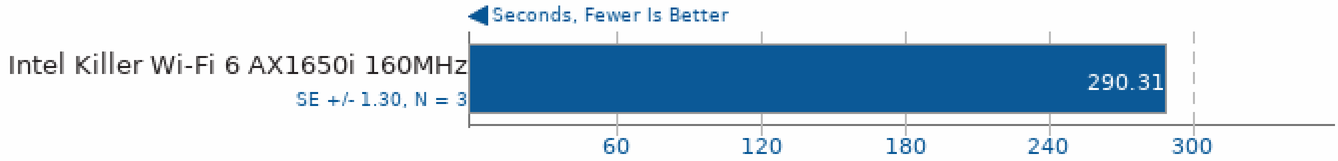
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --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: 0x78
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + 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 Enhanced IBRS IBPB: conditional RSB filling + tsx_async_abort: Not affected

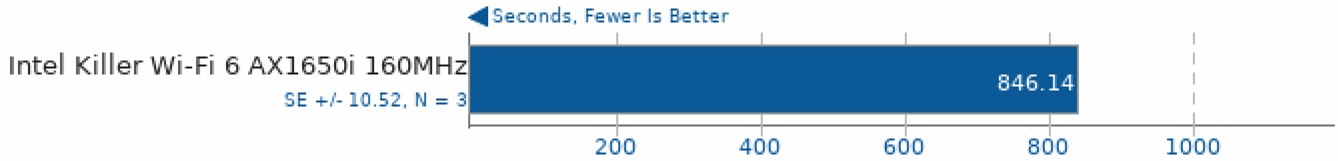
	Intel Killer Wi-Fi 6 AX1650i 160MHz
WireGuard + Linux Networking Stack Stress Test (sec)	290.312
Standard Deviation	0.8%
Rodinia - OpenMP LavaMD (sec)	846.140
Standard Deviation	2.2%
Rodinia - OpenMP Myocyte (sec)	3.519
Standard Deviation	1.2%
Rodinia - OpenMP HotSpot3D (sec)	112.181
Standard Deviation	1.2%
Rodinia - OpenMP Leukocyte (sec)	329.250
Standard Deviation	0.5%
Rodinia - OpenMP CFD Solver (sec)	54.380
Standard Deviation	1.3%
Rodinia - O.S (sec)	28.133
Standard Deviation	2.8%
oneDNN - IP Batch 1D - f32 - CPU (ms)	14.9091
Standard Deviation	8%
oneDNN - IP Batch All - f32 - CPU (ms)	176.548
Standard Deviation	0.3%
oneDNN - IP Batch 1D - u8s8f32 - CPU (ms)	3.22710
Standard Deviation	6.7%
oneDNN - IP Batch All - u8s8f32 - CPU (ms)	42.6970
Standard Deviation	0.1%
oneDNN - IP Batch 1D - bf16bf16bf16 - CPU (ms)	33.0418
Standard Deviation	7.8%
oneDNN - IP Batch All - bf16bf16bf16 - CPU (ms)	448.836
Standard Deviation	0.2%
oneDNN - C.B.S.A - f32 - CPU (ms)	15.5321
Standard Deviation	3.3%
oneDNN - D.B.d - f32 - CPU (ms)	15.5462
Standard Deviation	2.6%
oneDNN - D.B.d - f32 - CPU (ms)	13.5460
Standard Deviation	4.9%
oneDNN - C.B.S.A - u8s8f32 - CPU (ms)	11.5618
Standard Deviation	1.9%
oneDNN - D.B.d - u8s8f32 - CPU (ms)	3.92116
Standard Deviation	2.4%
oneDNN - D.B.d - u8s8f32 - CPU (ms)	3.51752
Standard Deviation	5.6%
oneDNN - R.N.N.T - f32 - CPU (ms)	867.418
Standard Deviation	0%
oneDNN - R.N.N.I - f32 - CPU (ms)	230.671
Standard Deviation	1.4%

oneDNN - C.B.S.A - bf16bf16bf16 - CPU (ms)	63.7207
Standard Deviation	10.3%
oneDNN - D.B.d - bf16bf16bf16 - CPU (ms)	72.7579
Standard Deviation	2%
oneDNN - D.B.d - bf16bf16bf16 - CPU (ms)	50.3586
Standard Deviation	5%
oneDNN - M.M.B.S.T - f32 - CPU (ms)	5.16681
Standard Deviation	5.2%
oneDNN - M.M.B.S.T - u8s8f32 - CPU (ms)	2.61865
Standard Deviation	7.3%
oneDNN - M.M.B.S.T - bf16bf16bf16 - CPU (ms)	15.7084
Standard Deviation	0.3%
Timed Linux Kernel Compilation - Time To Compile (sec)	284.797
Standard Deviation	0.1%
Darmstadt Automotive Parallel Heterogeneous Suite - OpenMP - NDT Mapping (Test Cases/min)	854.67
Standard Deviation	0.9%
Darmstadt Automotive Parallel Heterogeneous Suite - OpenMP - Points2Image (Test Cases/min)	24626
Standard Deviation	0.9%
Darmstadt Automotive Parallel Heterogeneous Suite - OpenMP - Euclidean Cluster (Test Cases/min)	743.25
Standard Deviation	2.9%

WireGuard + Linux Networking Stack Stress Test

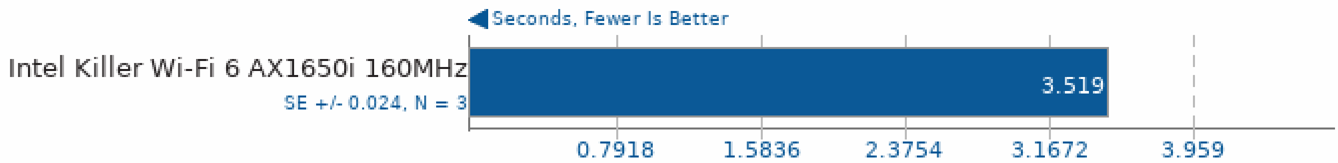


Rodinia 3.1
Test: OpenMP LavaMD



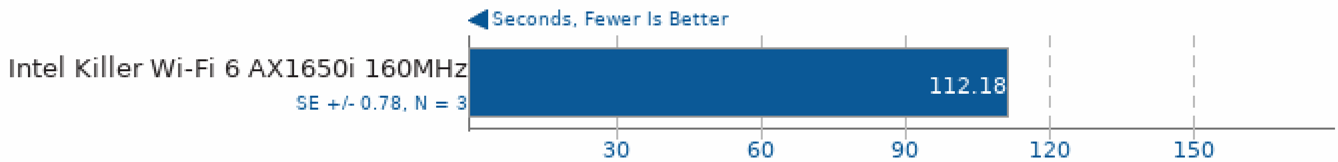
1. (CXX) g++ options: -O2 -lOpenCL

Rodinia 3.1
Test: OpenMP Myocyte



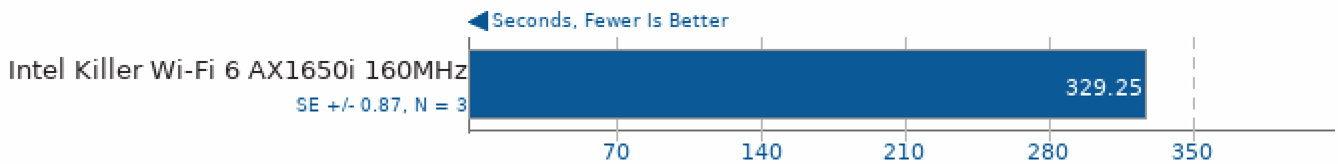
1. (CXX) g++ options: -O2 -lOpenCL

Rodinia 3.1
Test: OpenMP HotSpot3D



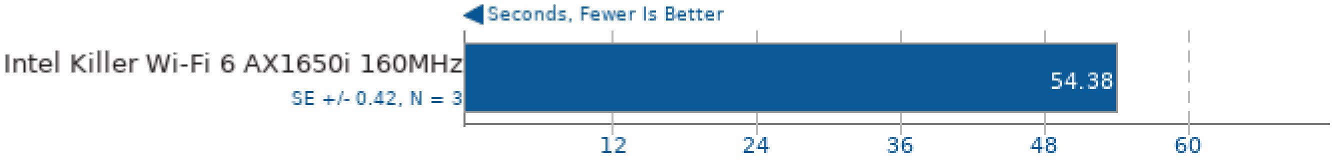
1. (CXX) g++ options: -O2 -lOpenCL

Rodinia 3.1
Test: OpenMP Leukocyte



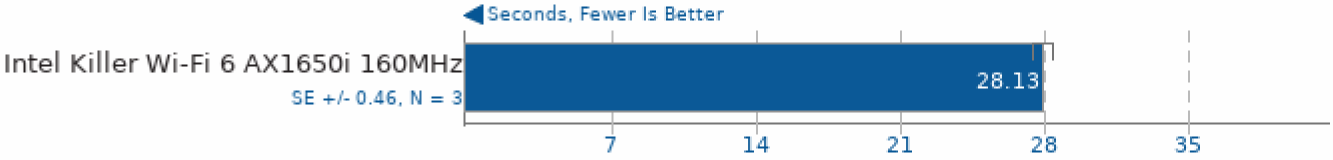
1. (CXX) g++ options: -O2 -lOpenCL

Rodinia 3.1
Test: OpenMP CFD Solver



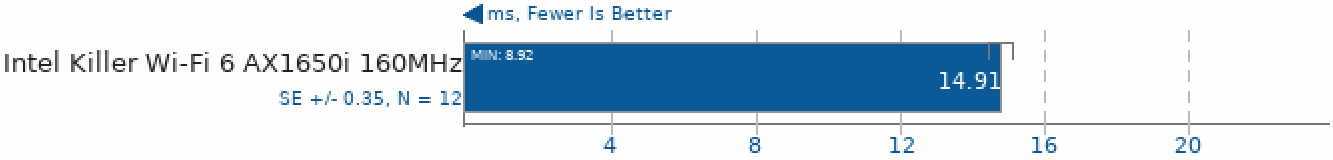
1. (CXX) g++ options: -O2 -lOpenCL

Rodinia 3.1
Test: OpenMP Streamcluster



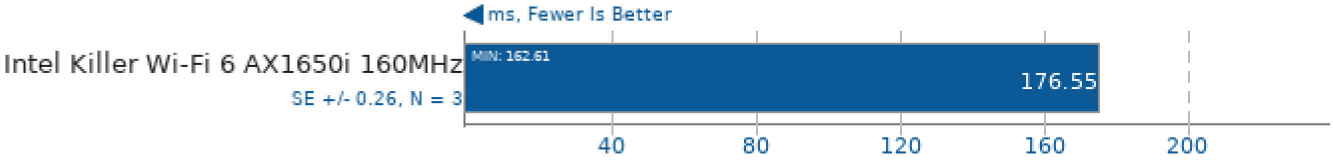
1. (CXX) g++ options: -O2 -lOpenCL

oneDNN 1.5
Harness: IP Batch 1D - Data Type: f32 - Engine: CPU



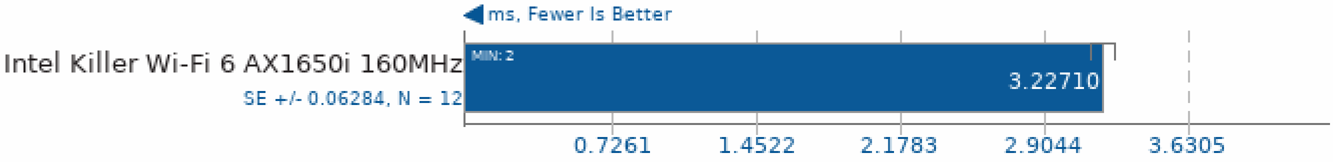
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5
Harness: IP Batch All - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

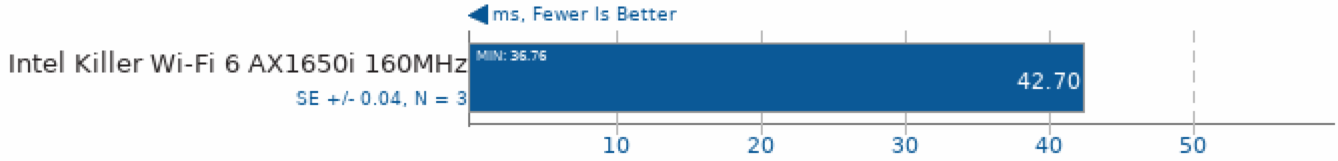
oneDNN 1.5
Harness: IP Batch 1D - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

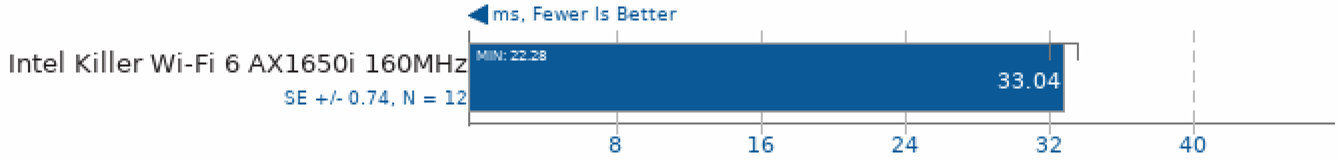
Harness: IP Batch All - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

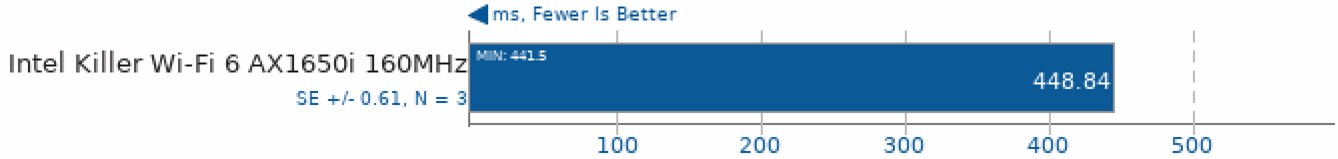
Harness: IP Batch 1D - Data Type: bf16bf16bf16 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

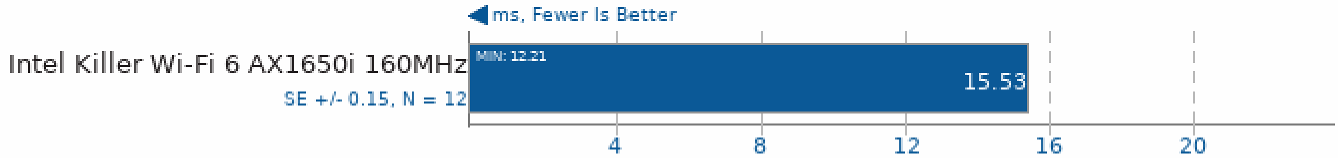
Harness: IP Batch All - Data Type: bf16bf16bf16 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

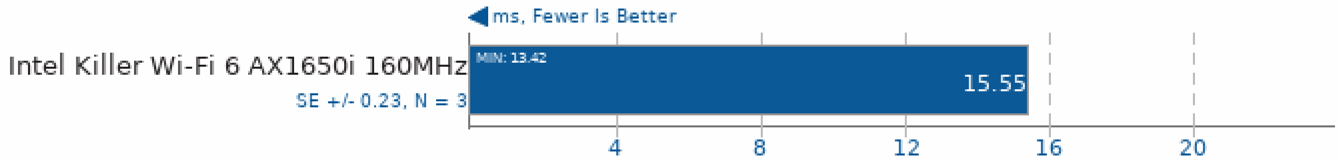
Harness: Convolution Batch Shapes Auto - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

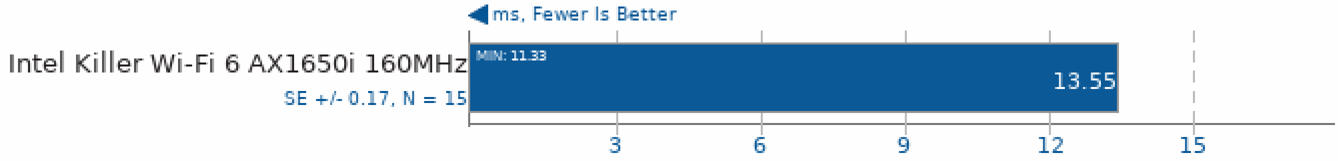
Harness: Deconvolution Batch deconv_1d - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

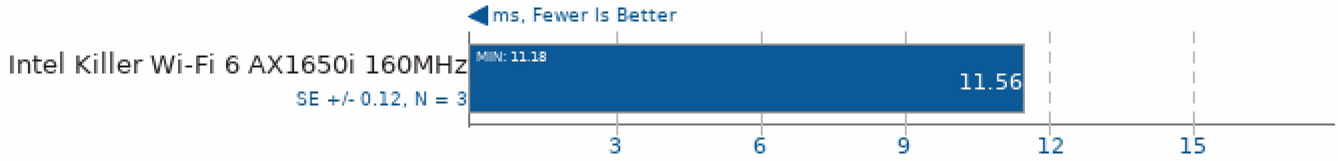
Harness: Deconvolution Batch deconv_3d - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

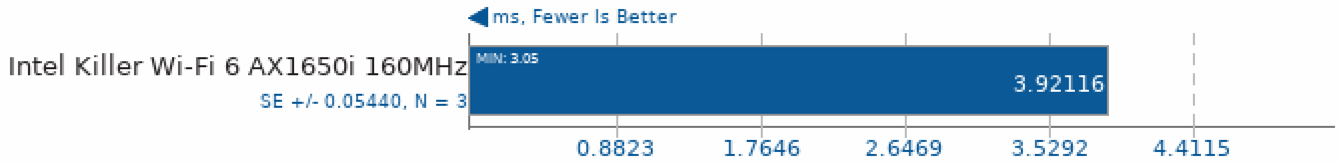
Harness: Convolution Batch Shapes Auto - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

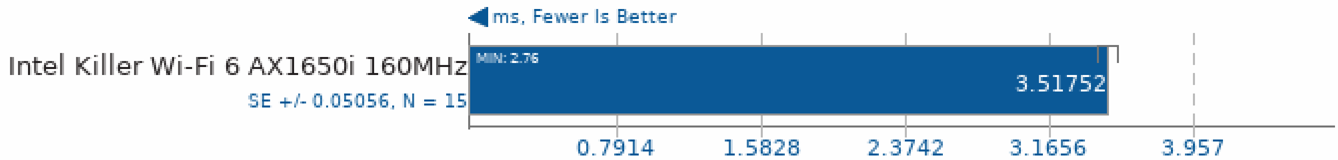
Harness: Deconvolution Batch deconv_1d - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

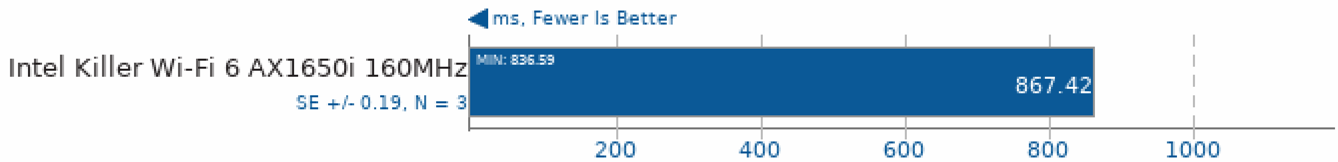
Harness: Deconvolution Batch deconv_3d - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

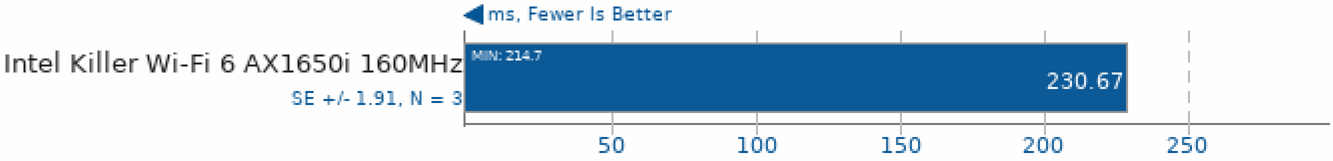
Harness: Recurrent Neural Network Training - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

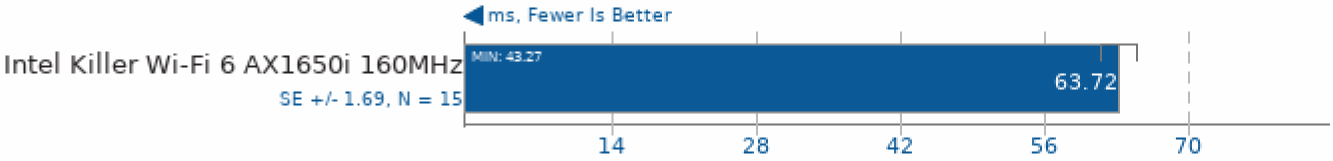
Harness: Recurrent Neural Network Inference - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

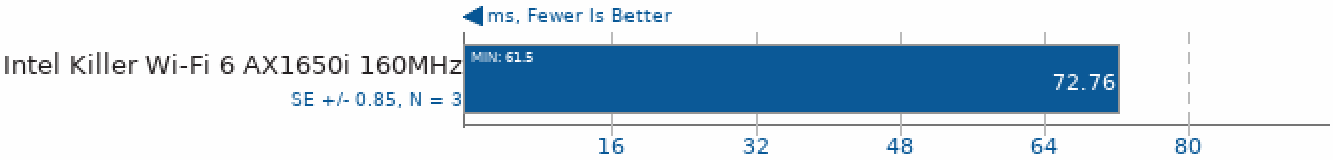
Harness: Convolution Batch Shapes Auto - Data Type: bf16bf16bf16 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

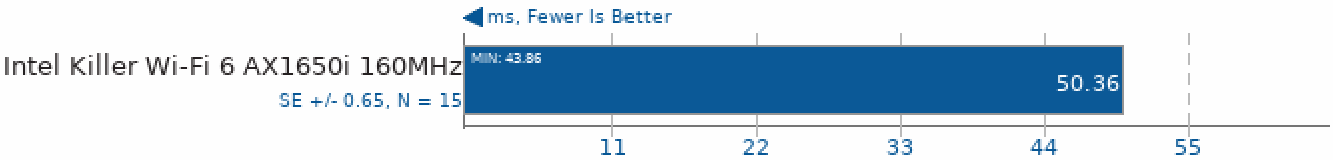
Harness: Deconvolution Batch deconv_1d - Data Type: bf16bf16bf16 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

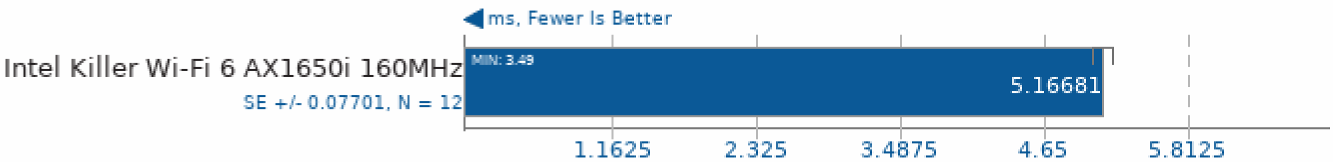
Harness: Deconvolution Batch deconv_3d - Data Type: bf16bf16bf16 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

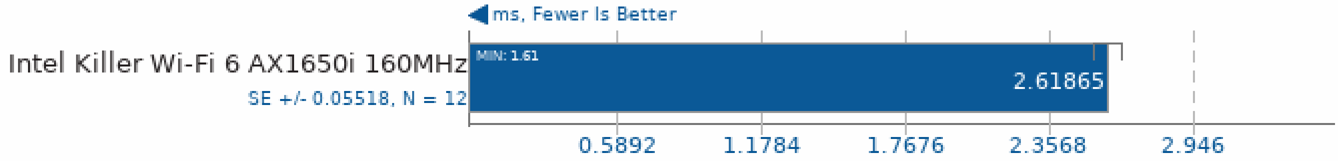
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

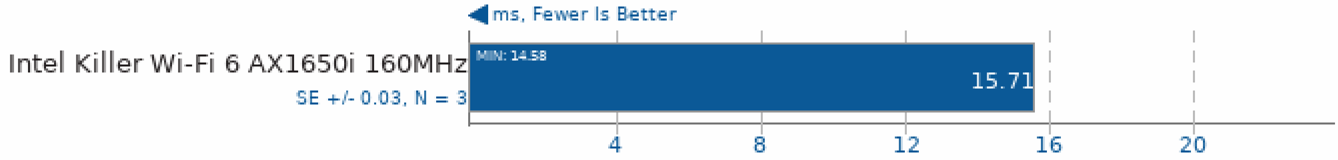
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 1.5

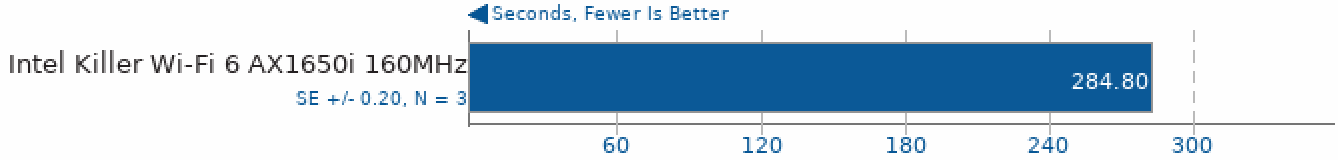
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: bf16bf16bf16 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

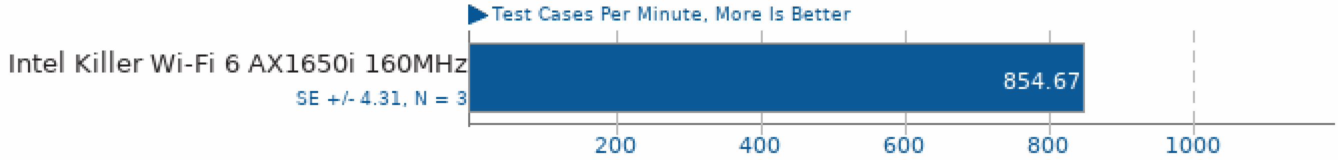
Timed Linux Kernel Compilation 5.4

Time To Compile



Darmstadt Automotive Parallel Heterogeneous Suite

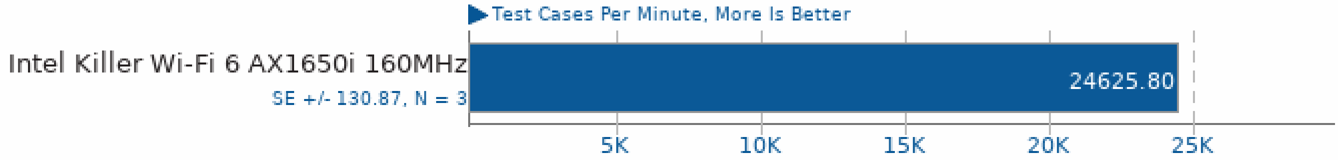
Backend: OpenMP - Kernel: NDT Mapping



1. (CXX) g++ options: -O3 -std=c++11 -fopenmp

Darmstadt Automotive Parallel Heterogeneous Suite

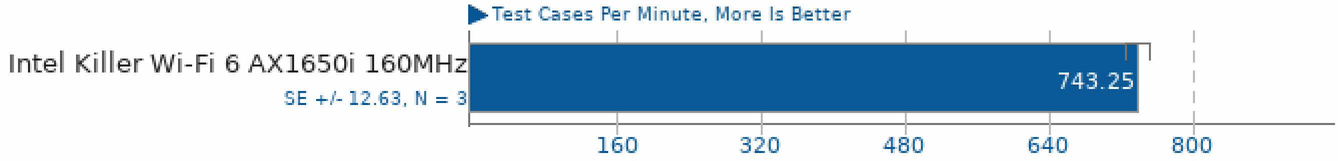
Backend: OpenMP - Kernel: Points2Image



1. (CXX) g++ options: -O3 -std=c++11 -fopenmp

Darmstadt Automotive Parallel Heterogeneous Suite

Backend: OpenMP - Kernel: Euclidean Cluster



1. (CXX) g++ options: -O3 -std=c++11 -fopenmp

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