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ECE 408/CS483 Milestone 1 Report

1. Show output of rai running Mini-DNN on the CPU (CPU convolution implemented) for batch size of 1k images. This can either be a screen capture or a text copy of the running output. Please do not show the build output. (The running output should be everything including and after the line "*Loading fashion-mnist data...Done*").

Loading fashion-mnist data...Done
Loading model...Done
Conv-CPU==
Op Time: 9880.67 ms
Conv-CPU==
Op Time: 34423 ms

Test Accuracy: 0.886

real   1m33.212s
user   1m32.882s
sys   0m0.160s

2. List Op Times (CPU convolution implemented), whole program execution time, and accuracy for batch size of 1k images.

Batch Size	Op Time 1	Op Time 2	Total Execution Time	Accuracy
1000	*9880.67 ms*	*34423 ms*	*1m33.212s*	*0.886*

3. Show percentage of total execution time of your program spent in your forward pass function with 'gprof'. This can either be a screen capture or a text copy of gprof output. You should only include the line that includes your CPU forward pass function *'conv_forward_cpu',* so please do not give more than this line.

Flat profile:

Each sample counts as 0.01 seconds.
* % cumulative self   self   total*
* time   seconds seconds   calls s/call s/call name*
* 87.95   44.15   44.15   2   22.08   22.08 conv_forward_cpu(float*, float const*, float const*, int, int, int, int, int, int)*