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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*").

```
*Running bash -c "time ./m1 1000"  \\ Output will appear after run is complete.
Test batch size: 1000
Loading fashion-mnist data...Done
Loading model...Done
Conv-CPU==
Op Time: 6338.71 ms
Conv-CPU==
Op Time: 18851.6 ms

Test Accuracy: 0.886

real    1m14.763s
user    1m14.515s
sys      0m0.156s
```

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	6338.71ms	18851.6ms	1m14.763s	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.

```
Each sample counts as 0.01 seconds.
%   cumulative   self           self         total
time  seconds    seconds   number of    number of
      80.93      25.16      25.16         2         12.58      12.58 conv_forward_cpu(float*, float const*, float const*, int, int, int, int, int, int)
```