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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*").

```
Test batch size: 1000
Loading fashion-mnist data...Done
Loading model...Done
Conv-CPU==
Op Time: 5379.71 ms
Conv-CPU==
Op Time: 15412.6 ms

Test Accuracy: 0.886


real    0m30.149s
user    0m29.953s
sys     0m0.152s
```

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	*5379.71 ms*	*15412.6 ms*	*30.149 s*	*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.

```
 %   cumulative   self              self     total
time   seconds   seconds    calls   s/call   s/call  name
78.44     20.88    20.88        2    10.44    10.44  conv_forward_cpu(float*, float const*, float const*, int, int, int, int, int, int)
```