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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: 9900.22 ms
Conv-CPU==
Op Time: 34301 ms

Test Accuracy: 0.886


real    1m33.145s
user    1m32.967s
sys     0m0.176s
* The build folder has been uploaded to http://s3.amazonaws.com/files.rai-project.com/userdata/build-61638d378726e300e4d
39783.tar.gz. The data will be present for only a short duration of time.
adam@MSI:/mnt/e/Study/ece408_git$
```

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	*9900.22 ms*	*34301 ms*	*1m33.145s*	*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
88.56     44.21    44.21        2   22.11    22.11  conv_forward_cpu(float*, float const*, float const*, int, int, int, int, int, int)
```