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Section: AL2

## 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: 8291.14 ms

Conv-CPU==

Op Time: 23900.5 ms

Test Accuracy: 0.886

\*The build folder has been uploaded to http://s3.amazonaws.com/files.rai-project.com/userdata/build-6160f7d31d41c80969f01956.tar.gz. The data will be present for only a short duration of time.

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	8291.14ms	23900.5ms	32191.64	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 Ts/call Ts/call name
77.66 32.25 32.25 conv_forward_cpu(float*, float const*, float const*, int, int, int, int, int)
```