15-400 Milestone 7

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1 Major Changes

There are no major changes.

2 What You Have Accomplished Since Your Last Meeting

Since the last meeting, I have been able to trace down the issue that I was dealing with. The parameter server was potentially not looking at unrolled nets that comprised a single layer. In addition, there was data being shared by caffe blobs in the recurrent neural network implementation. This is something that does not work with the GeePs parameter server model. To fix this I have got rid of data sharing and have instead copied the data between the relevant blobs on the forward and backward passes on both the CPU and GPU.

We have determined a course of action that would not require changing the solver code because it is rather complicated and may break. We are currently implementing this and should be done shortly.

3 Meeting Your Milestone

Although I have not quite met my milestone, it is encouraging that we have determined what the issue is and figured out a potential solution that does not involve changing the parameter server code.

4 Surprises

There were not really any major surprises besides the one described above.

5 Looking Ahead

Ideally, we should be able to have resolved the issue that we have been dealing within the next day. This will allow us to see whether we observe the same

trend that we saw with CNNs with RNNs. At this point, I can begin working on the poster and report as well.

6 Revisions to Your Future Milestones

There are no revision to future milestones.

7 Resources Needed

I have all the resources that I need to complete my project.