Journal Report 11

11/18/19-11/21/19

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Period 4, White

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**Daily Logs**

**Monday, November 18:**

I researched potential causes of a “GNU version not supported error” and found that the CUDA version I installed likely does not allow me to run CUDA on a gcc version as high as the one on the Syslab computer.

**Tuesday, November 19:**

I confirmed yesterday’s theory. The Syslab computer has gcc version 7.4.0. The CUDA version currently installed is 8.0.61, which only allows for gcc versions 5 and below. I installed CUDA from the version 10.1 toolkit, so I’m not sure why I have version 8.0.61 instead. To correct the GNU version error, I tried changing the gcc versions CUDA accepts by editing the host\_config.h file and later by using a symbolic link, but I wasn’t able to do either of these since I’m not a sudo user.

**Thursday, November 21:**

The reason I have version 8.0.61 right now is because it was already installed on the computer before I tried to install version 10.1. You logged in as a sudo user and helped me try to install CUDA 10.1, which is the only version that accepts a gcc of 8 or below like the ones on the Syslab computers. As of now, we are running into an error that could either mean /tmp is out of space or that there is a problem with the CUDA file we’re reading.

**Timeline:**

|  |  |  |
| --- | --- | --- |
| Week | Goal | Met? |
| 11/6-11/7 | 1.Install darknet on a Syslab Linux computer and successfully run a premade YOLO test program  2.Move all the images and configuration files from my personal computer to the Syslab computer so I have all the necessary files for training YOLO | Yes |
| 11/11-11/14 | Install a GPU or find a substitute | Yes |
| 11/18-11/21 | Resolve “Unsupported GNU version” error | No |
| 11/25-11/26 | Reformat up GitHub page | No |
| 12/2 - 12/5 | Resolve “Unsupported GNU version” error | No |
| Winter goal | Get YOLO to identify handicap parking passes in photos with 80% accuracy | No |

**Reflection:**

This week, I worked on resolving errors with training YOLO to identify handicap parking passes. The 8.0.61 CUDA version I have installed right now does not work with the gcc of the Syslab computer, so I am working on updating the CUDA version. A fully-functioning CUDA is necessary to run YOLO with a GPU, so resolving this error will bring me closer to my winter goal of using YOLO to identify handicap parking passes at a specific accuracy level.