



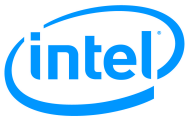
Intel® Edison Tutorial: Miniconda



Table of Contents

Introduction.....	3
Things Needed.....	3
Setup.....	4

Revision history		
Version	Date	Comment
1.0	10/28/2015	Initial release

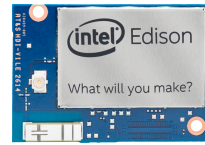


Introduction

Miniconda is a package manager for Python. We will use this to install SciPy, a notoriously difficult package to install without some kind of package management system.

Things Needed

1. 1x Intel® Edison
2. A PC or a Mac
3. 2x Micro USB cables
4. An internet connection
5. Storage Requirements
 1. Miniconda – 125MB
 2. SciPy and all dependencies – 500MB
 3. scikit-learn and all dependencies (except SciPy) – 40MB
 4. NeuPy and all dependancies (except SciPy) – 90MB



Setup

1. Download the code available in the same folder where you downloaded this PDF

<https://drive.google.com/drive/u/0/folders/0B4NGslzPqDhvbWMzMWhyVk15dHM>

2. Push the file labelled **install_conda** to your Intel Edison
3. Make the file executable by editing the permissions

```
$ chmod +x install_conda
```

4. Run the install_conda script

```
$ ./install_conda
```

This installation may take some time

5. Reboot the board

```
$ reboot
```

6. As you may anticipate, rebooting the board means that the power to the Wi-Fi chip is disabled meaning that your SSH connection will be terminated.

To remedy this, end your terminal session and start a new one once the board has successfully booted.

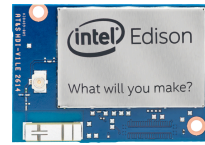
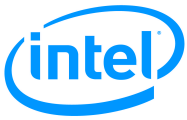
7. Once you are reconnected to your Intel Edison via SSH, type

```
$ conda update conda
```

8. Once conda is done updating, try to install scipy

```
$ conda install scipy
```

This installation may take some time



9. Test to see if this installation of scipy worked

```
$ python  
>> import scipy  
>>
```

If the install procedure worked, then you should get the above output. If you get the below output, please see your course instructor for debugging instructions

```
$ python  
>> import scipy  
Traceback (most recent call last):  
File "<stdin>", line 1, in <module>  
ImportError: No module named scipy
```

10. We also recommend installing the below modules
 - a. **scikit-learn** – useful for machine learning projects

```
$ conda install scikit-learn
```

- b. **neupy** – useful for neural network projects

```
$ pip install neupy
```