

FOBOS Software Installation

FOBOS consists of Python scripts for acquisition and analysis and hardware for controller and DUT. This guide describes installation of the software (the Python scripts).

The following installation procedure is tested on Linux Ubuntu 16.04.

- 1- Download FOBOS from <https://cryptography.gmu.edu/fobos/getfobos.php>
- 2- Extract the archive into the directory of your choice

```
$ tar xvfz fobos-v1.0.tgz
```

- 3- Use the following commands to install the necessary Python packages:

```
$ sudo apt-get install python-pip
$ sudo pip install pycrypto
$ sudo pip install numpy
$ sudo pip install matplotlib
$ sudo apt-get install python-tk
$ sudo pip install scipy
$ sudo pip install configparser
```

- 4- Install Digilent Adept from https://reference.digilentinc.com/reference/software/adept/start?redirect=1#software_downloads

This will install libraries needed for the Digilent DEP protocol used for PC - control board communication.

- 5- Install Xilinx ISE. Make sure to install Cable Drivers in Xilinx ISE installation. If not, you will encounter issues using Impact to program the boards.