

Installing the mvBlueFOX driver

1. Need certain packages to be able to run the cameras

```
$ sudo apt-get install build-essential  
$ sudo apt-get install gksu  
$ sudo apt-get update  
$ sudo apt-get upgrade
```

2. We are using wxWidgets so we need to install the library and headers

```
$ sudo apt-get install x2.8-headers libwxgtk2.8-0 libwxgtk2.8-dev
```

To make sure the the structure is right

```
$ cd /usr/include/  
$ ls | grep wx
```

You should see the folder called wx-2.8 . If you don't then the headers are not installed correctly

3. Normally when you include wxWidgets you say "wx/wx.h" but now wxWidgets are in the

subdirectory wx-2.8/wx so we need to create a link to wx2.8/wx

```
$ sudo ln -sv wx-2.8/wx wx
```

Now when you compile you have to add this to the end of your gcc command

```
`wx-config - - cxxflags` `wx-config - -libs`
```

4. Create a new directory in your file system where you want to install the mvBlueFOX libraries. I

happen to call mine mvBlueFOX

```
$ mkdir mvBlueFOX
```

5. Copy the correct mvBlueFOX package file to this directory

For 64 bit linux:

```
$ cp /home/username/Downloads/mvBlueFOX-86_64_ABI2-2.14.3.tgz /home/  
username/mvBlueFOX/
```

For 32 bit linux:

```
$ cp /home/username/Downloads/mvBlueFOX-86_ABI2-2.14.3.tgz /home/  
username/mvBlueFOX/
```

6. Unpack the .tgz package with the command

64 bit version:

```
$ tar xvzf mvBlueFOX-86_64_ABI2-2.14.3.tg
```

32 bit version:

```
$ tar xvzf mvBlueFOX-86_ABI2-2.14.3.tg
```

7. Since the mvBlueFOX libraries are not installed to a directory known to the system i.e. not in the

"ldconfig" cache, you will need to tell the system where to find them. Enter into directory

```
$ cd /etc/ld.so.conf.d/  
$ sudo ldconfig
```

will prompt for password

8. Now you need to build the test applications. This will attempt to build the library in wxPropGrid/ and the test applications in apps/

```
$ cd /home/username/mvIMPACT_acquire/  
$ make
```

9. Copy the rules located in the Scripts directory

```
$ cd /home/username/mvIMPACT_acquire/Scripts/  
$ sudo cp /home/username/mvIMPACT_acquire/Scripts/51-mvbf.rules /etc/udev/  
rules.d/  
$ sudo service udev restart
```

10. If you are using virtual machine, go to setting to add the mvBlueFOX to the USB filter. For

mvBlueFox to show up, plug in camera. The camera has to be plugged in before next command

```
$ wxPropView
```