

Getting setup

1. Install 32bit Linux Ubuntu 11.04 kernel 2.6.38-8-generic.
2. Get Eclipse. You can download the C/C++ 32bit Linux version on the Eclipse website. You can also install Eclipse using apt-get from Ubuntu, and then install the CDT plugin.
3. Download EPOS Linux library version 4.8.1.0
(https://downloads.maxonmotor.com/Katalog_neu/eshop/Downloads/maxon_motor_control/Positionierung/Common_EPOS_EPOS2/Linux_Library/EPOS_Linux_Library_E.zip), and unzip it to a known location on your computer.
4. Download FTDI drivers, version 0.4.16 Linux 32bit
(<http://www.ftdichip.com/Drivers/D2XX/Linux/libftd2xx0.4.16.tar.gz>), and unzip it to a known location on your computer.

FTDI Drivers

1. Change your current directory to where you unzipped the FTDI files, where libftd2xx.so.0.4.16 is located.
2. `sudo cp libftd2xx.so.0.4.16 /usr/local/lib`
3. `cd /usr/local/lib`
4. `sudo ln -s libftd2xx.so.0.4.16 libftd2xx.so.0`
5. `sudo ln -s libftd2xx.so.0 libftd2xx.so`
6. `cd /usr/lib`
7. `sudo ln -s /usr/local/lib/libftd2xx.so.0.4.16 libftd2xx.so.0`
8. Change your current directory to where you unzipped the Maxon files, where 99-ftdi.rules is located, which is in the Example directory.
9. `sudo cp 99-ftdi.rules /etc/udev/rules.d`
10. `sudo /etc/init.d/udev restart`

Maxon Library

1. `LD_LIBRARY_PATH=/opt/lib:$LD_LIBRARY_PATH`
2. `export LD_LIBRARY_PATH`
3. `sudo mkdir /opt/lib`
4. Change your current directory to where you unzipped the Maxon files, where libEposCmd.so.4.8.1.0 is located, which is in the Definition Files directory.
5. `sudo cp libEposCmd.so.4.8.1.0 /opt/lib`
6. `cd /opt/lib`
7. `sudo ln -s libEposCmd.so.4.8.1.0 libEposCmd.so.0`
8. `sudo ln -s libEposCmd.so.0 libEposCmd.so`
9. `sudo cp libEposCmd.so.4.8.1.0 /usr/lib`
10. `cd /usr/lib`
11. `sudo ln -s libEposCmd.so.4.8.1.0 libEposCmd.so`

Setting up a Project in Eclipse

1. Create a new C/C++ project in Eclipse. Make sure to include “Definitions.h” and link libEposCmd.so which is located in /usr/lib
2. Connect to an EPOS2 through USB. Please note this has only been tested with EPOS2 firmware, software version 0x2122, hardware version 0x6420. If you are unsure what firmware is currently installed please see the instructions from Maxon, on how to check or update the firmware.