

CMUcam3 Linux Quick Start Guide

This is for advanced users. For more detailed instructions see [Documentation](#).

- Make sure you already have the following installed
 - Make
 - Subversion
 - Openssh
- Download from our [Downloads](#) page:
 - Linux ARM-gcc compiler
 - Linux LPC-ISP Installer
- Not as root, install the files into a subdirectory of your home directory, and add to your local PATH
- Download cc3 source
 - Get a zip of the latest stable snapshot from our [Downloads](#) page
 - **or** checkout a fresh copy from svn by typing:

```
svn co https://cc3.svn.sourceforge.net/svnroot/cc3/trunk cc3
```

- Install gcc
 - bunzip2 arm-2006q3-27-arm-none-eabi-i686-pc-linux-gnu.tar.bz2
 - tar xvf arm-2006q3-27-arm-none-eabi-i686-pc-linux-gnu.tar
 - Add: /arm-2006q3/bin directory to your path
- Install LPC-ISP
 - unzip lpc21isp_unix.zip
 - cd lpc21isp_unix
 - make
 - Add the directory with lpc21isp to your path
- Open up a new shell
 - Go to cc3
 - Type Make
- Startup in programming mode
 - Hold in push button while turning on power to startup in programming mode
- Load compiled hex file
 - cd to cc3/projects/cmucam2/
 - Flash board with cmucam2_lpc2106-cmucam3.hex
 - Assuming your COM port is /dev/ttyS0 type:

```
./lpc21isp cmucam2_lpc2106-cmucam3.hex /dev/ttyS0 115200 14746
```

- Open up a terminal program
 - Power Cycle Board
 - A Green Power LED should turn on
 - If the code is running correctly, the red LED will turn off and the blue and yellow LEDs will dimly illuminate
 - Make sure it prints a startup message
- Open [Minicom](#) or some other terminal program
 - Configure Minicom as described on our [Minicom](#) page.
 - Restart the board and wait 5 seconds
 - You should see the following:

```
CMUcam2 v1.00 c6  
:
```

- Try typing "gv" followed by enter to see if two-way serial communication is working