**Compiling and running U-boot on raspberry PI 3**

**AIM:** Compiling and building U-boot using Buildroot.

**Requirements:**

* Buildroot latest version
* Internet connection

**Procedure:**

Buildroot is a tool which automates the building of a complete Linux system(U-boot, Linux kernel image) for an embedded system, using cross-compilation, which requires a good internet connection to download the required packages.

* Download the latest Buildroot from <https://buildroot.org/download.html>
* Extract the tar file.
* Run ‘make menuconfig’ and select the options for Raspberry PI

(or)

Run ‘make raspberrypi3\_defconfig’ for the default configuration.

* Run ‘make’ without using the ‘-jN’ flag, which takes several minutes to complete.
* After completion of building, images can be found in the ‘output/images/’ directory.
* Dump the ‘sdcard.img’ file to SD card using the command ‘dd if=output/image/sdcard.img of=/dev/sdX’.

**References:**

* <https://buildroot.org/docs.html>
* buildroot-version/docs/manual/manual.pdf