ESE 2025 Lab Report - Booting The Beagle Bone Black
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Introduction:

This report showing the process of booting a BeagleBone Black via minicom and the FTDI serial debug cable.

Discussion:

The booting process comes into play when there is a problem when the USB cable is not working.

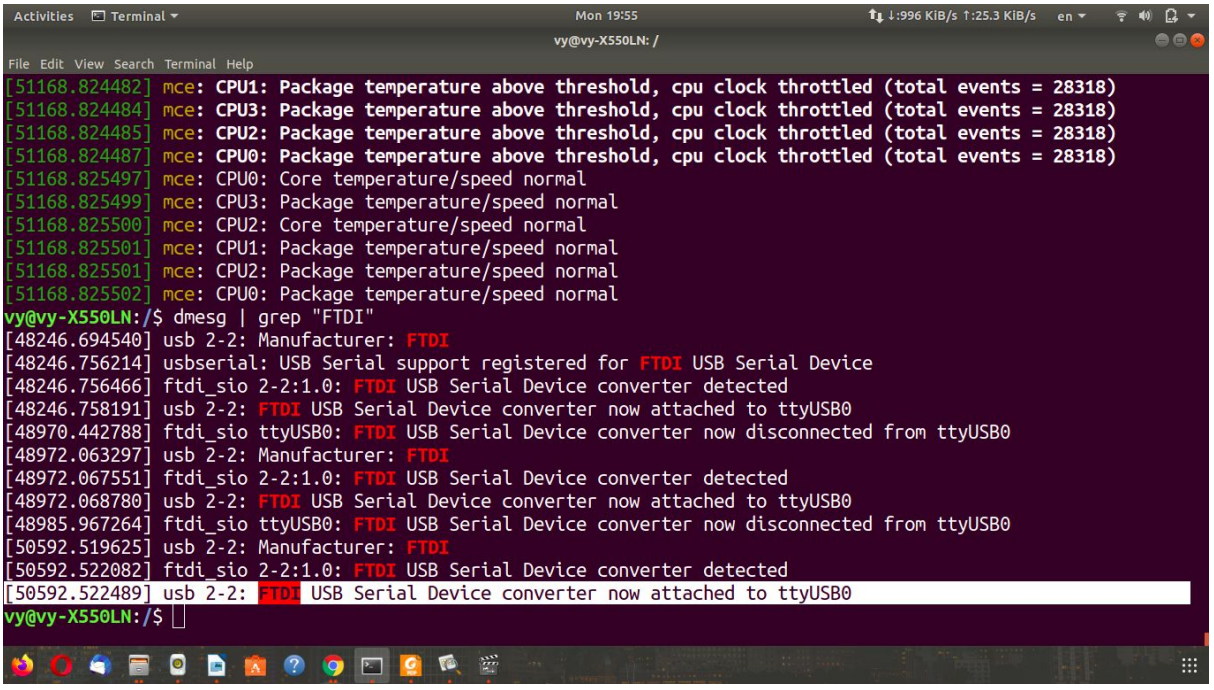
Before the process of booting, the host machine need to install the minicom first, by doing:

```
$sudo apt install minicom
```

Then after connecting the BBB to host machine, we need to define the FTDI port on minicom. To do that, we have to find the “tag” of the FTDI port, running:

```
$dmesg | grep "FTDI"
```

with grep “FTDI” as a filter

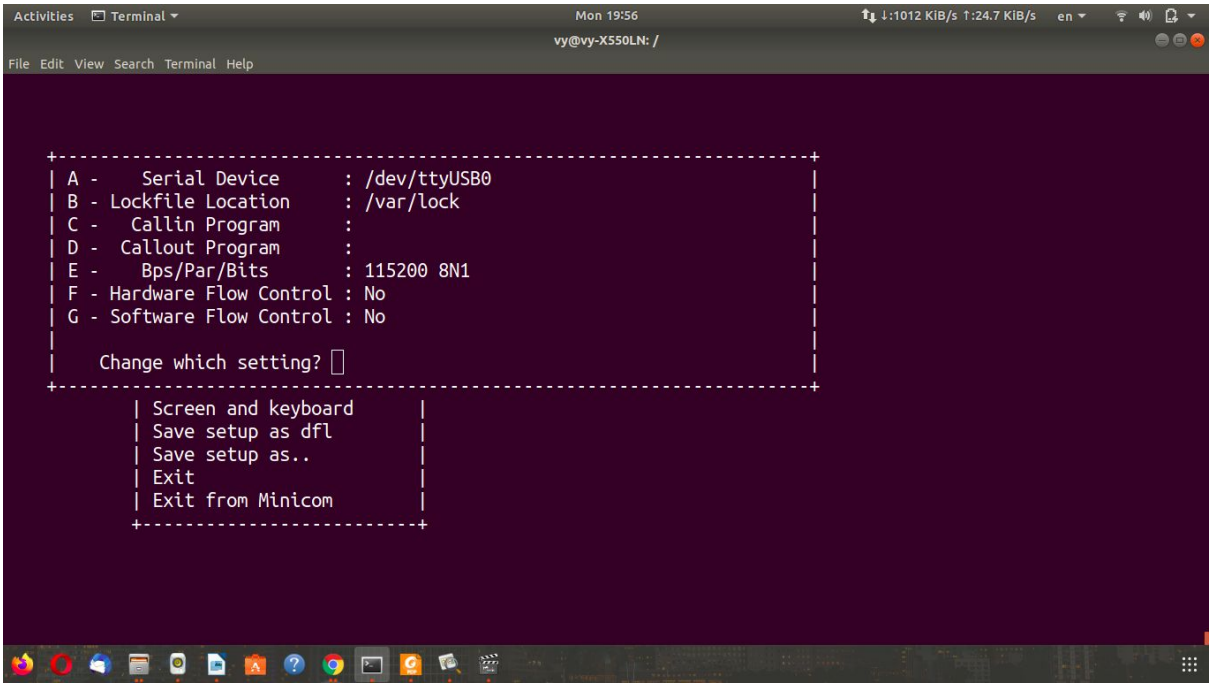


Remember the “ttyUSB0”

Now we can go to the minicom setting:

```
$sudo minicom -s
```

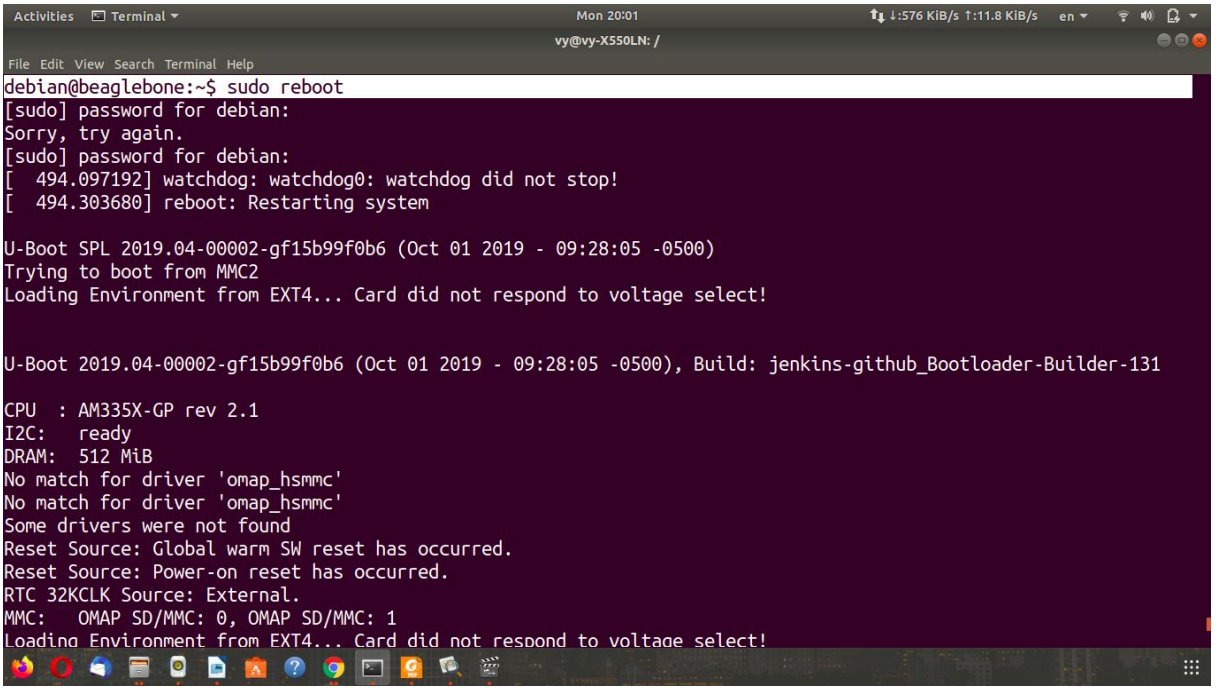
Then save the setting below as default:

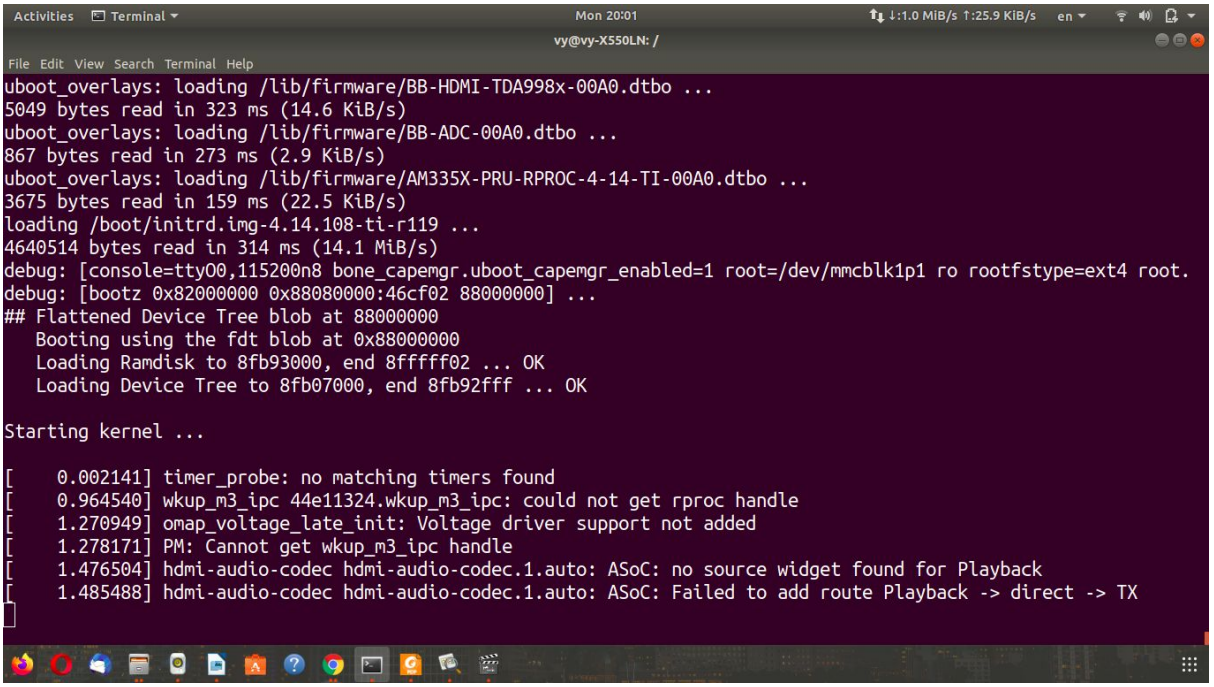


Now we run

```
$sudo reboot
```

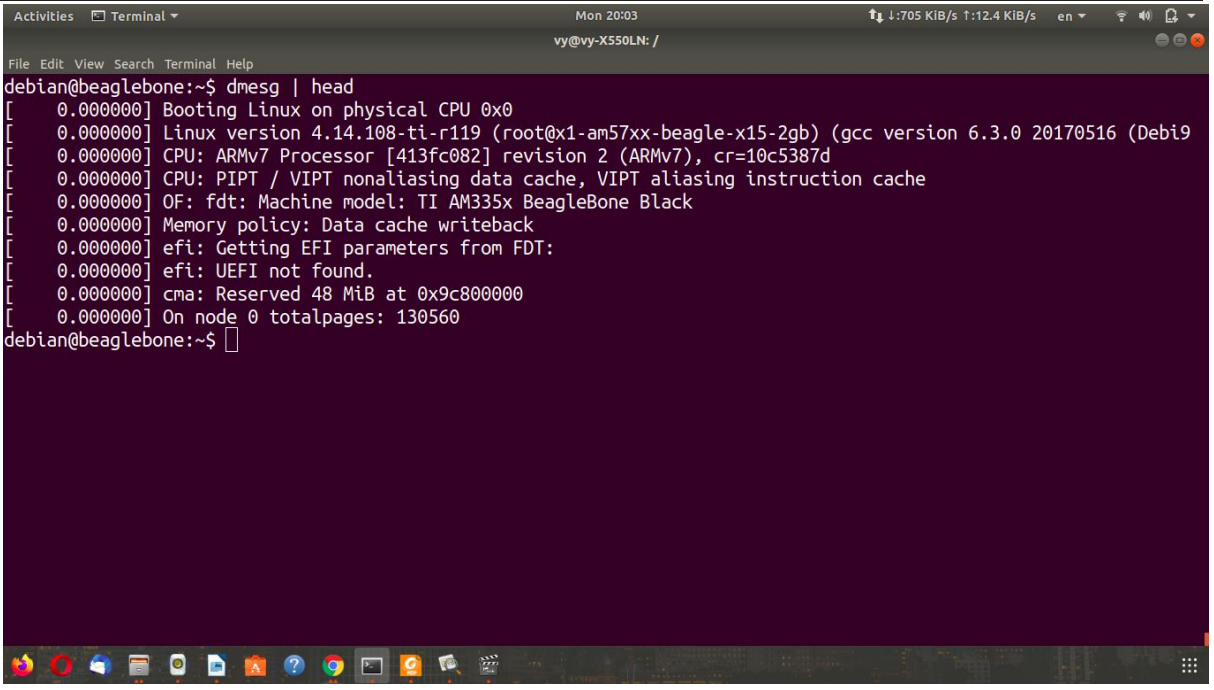
We will see the process of BBB booting before starting the Kernel:





Then we can log in and look for some different by:

```
$dmesg | head
```



Summary:

Those are some of the command and note we should take into account when booting a Beaglebone Black machine. To debug and for further process, recommend following the “Exploring BeagleBone” by Derek Molloy.