



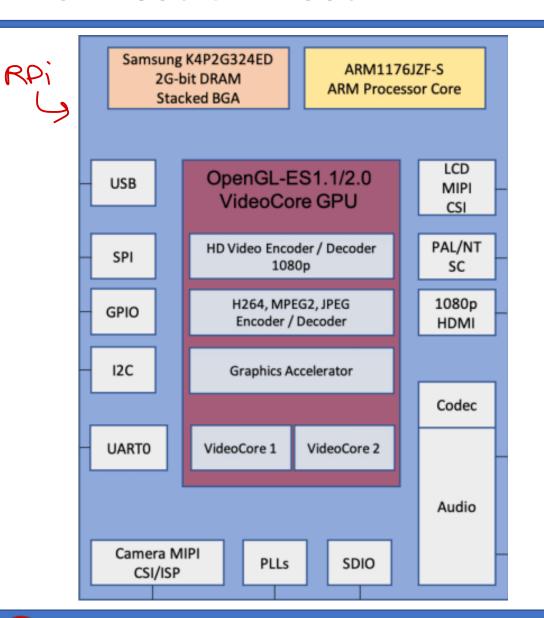
Linux Device Driver

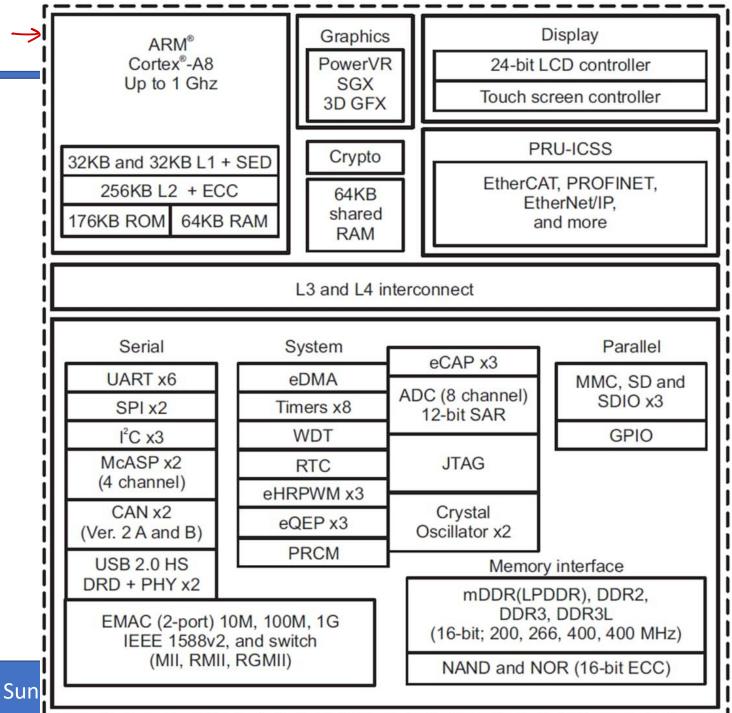
Sunbeam Infotech



BCM2835 & AM335x

BBB ->







BeagleBone Linux Booting

> Am 335x (ARM SoC)

MB 007

(some ju

DDR RAM)

Linux

Kernel

MImage

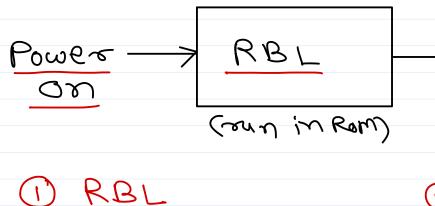
(en laps)

ext 4

uImoge.

कार्थ मुट

DDR RAM)



L ROM Boot Loader

~ Given by resounts threes and hard-coded in flash

V Does following

- Default dock init

- Stack Setup (for all modes)
- Set up WAT (3 mins)
- PLL config for clocks
- Get SPL from MMC and invoke it.

BBB board: XTAL = 24 MHZ

2) SPL/MLO

(som in

internal SRAM)

Mro

V Secondary Poogsass Loader (Memory Loader)

~ Peirerary or First Stage Boot loader.

v Run in MC SRAM. V Part of MBoot loader

v DDR RAM initialization

V Get alboot from Monc & ionoke it

(B) U Boot.

V Run in DPR RAM

V Get Cooking from UEON. test

V Invokes Linux Kernel

Roof FS

emmc/SD card

(4) Linux Kernel

~ Load in DDR RAM & entract itself.

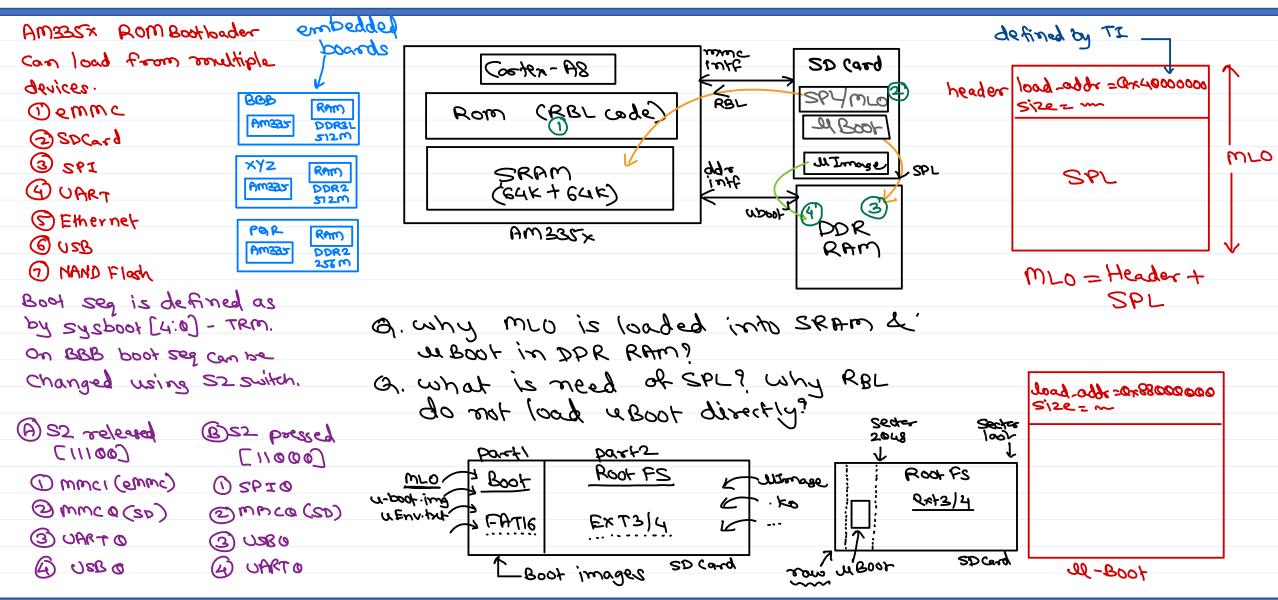
~ Loads Root File System from mmc card.

S Root FS

~ Contains all system pingeies.

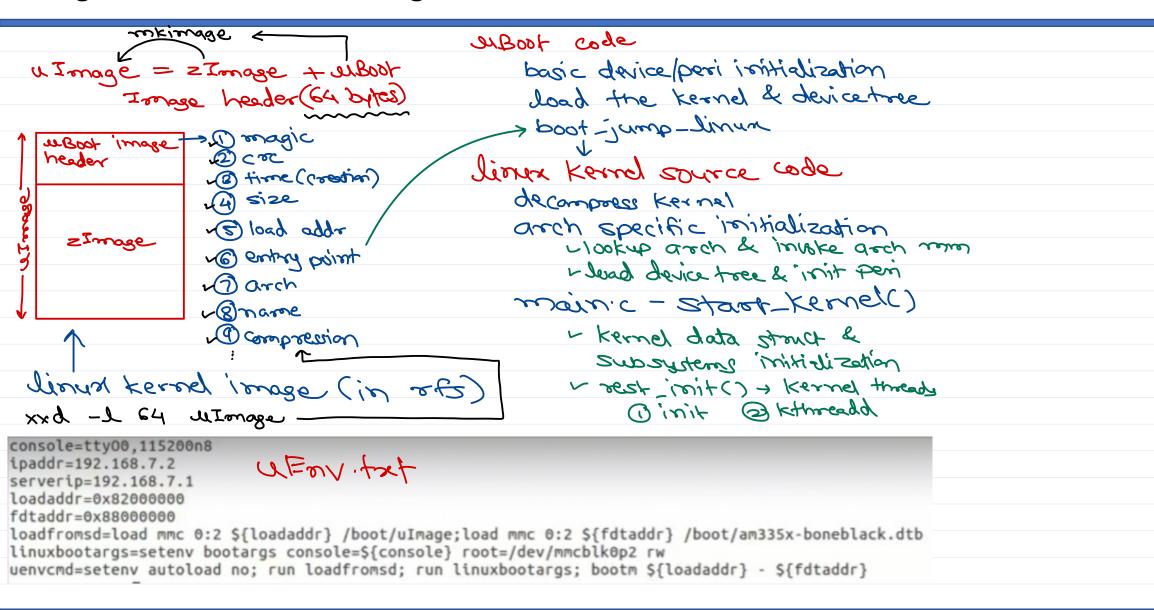


BeagleBone Linux Booting



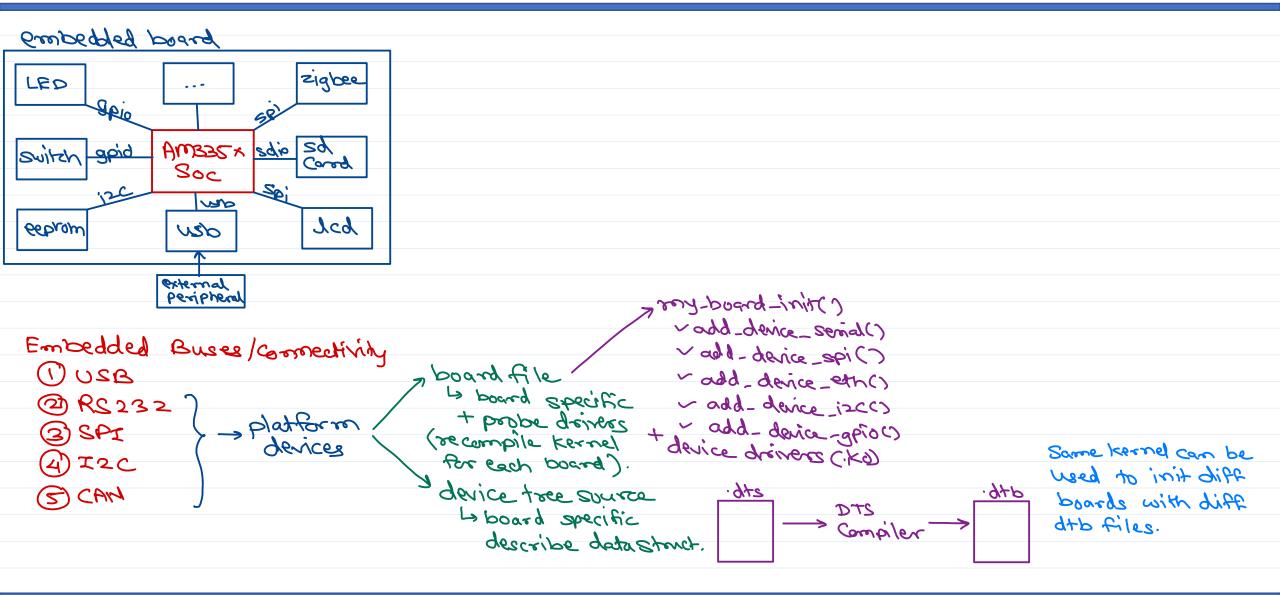


BeagleBone Linux Booting



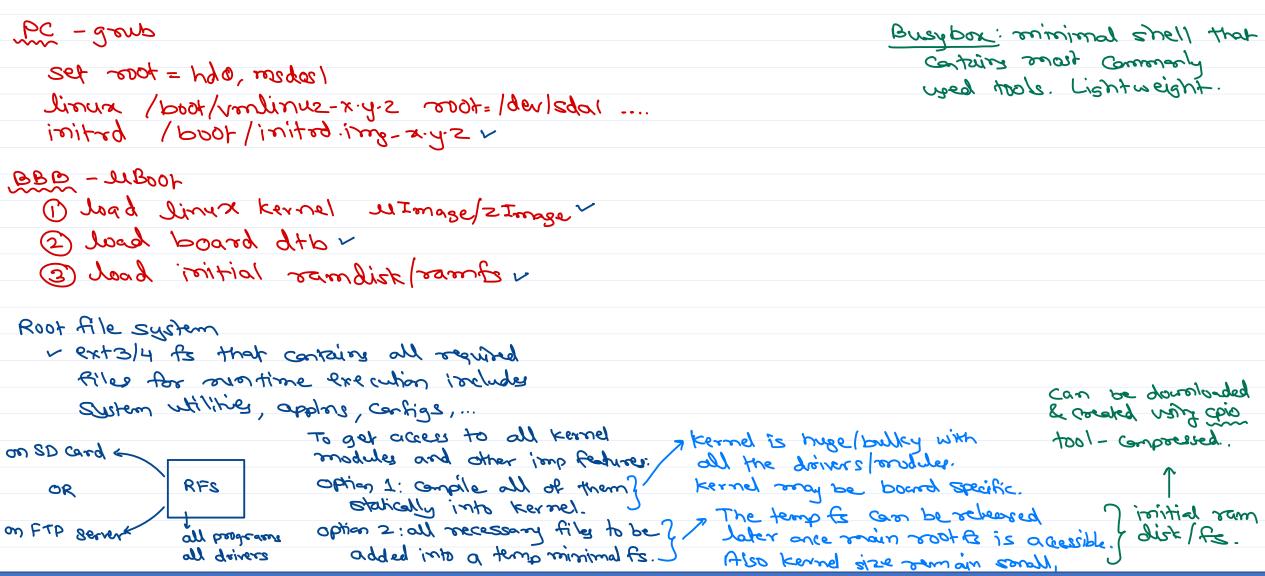


Device tree





Root File System





Thank you!

Nilesh Ghule <nilesh@sunbeaminfo.com>

