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Linux Boot Process for Sitara TI Processors

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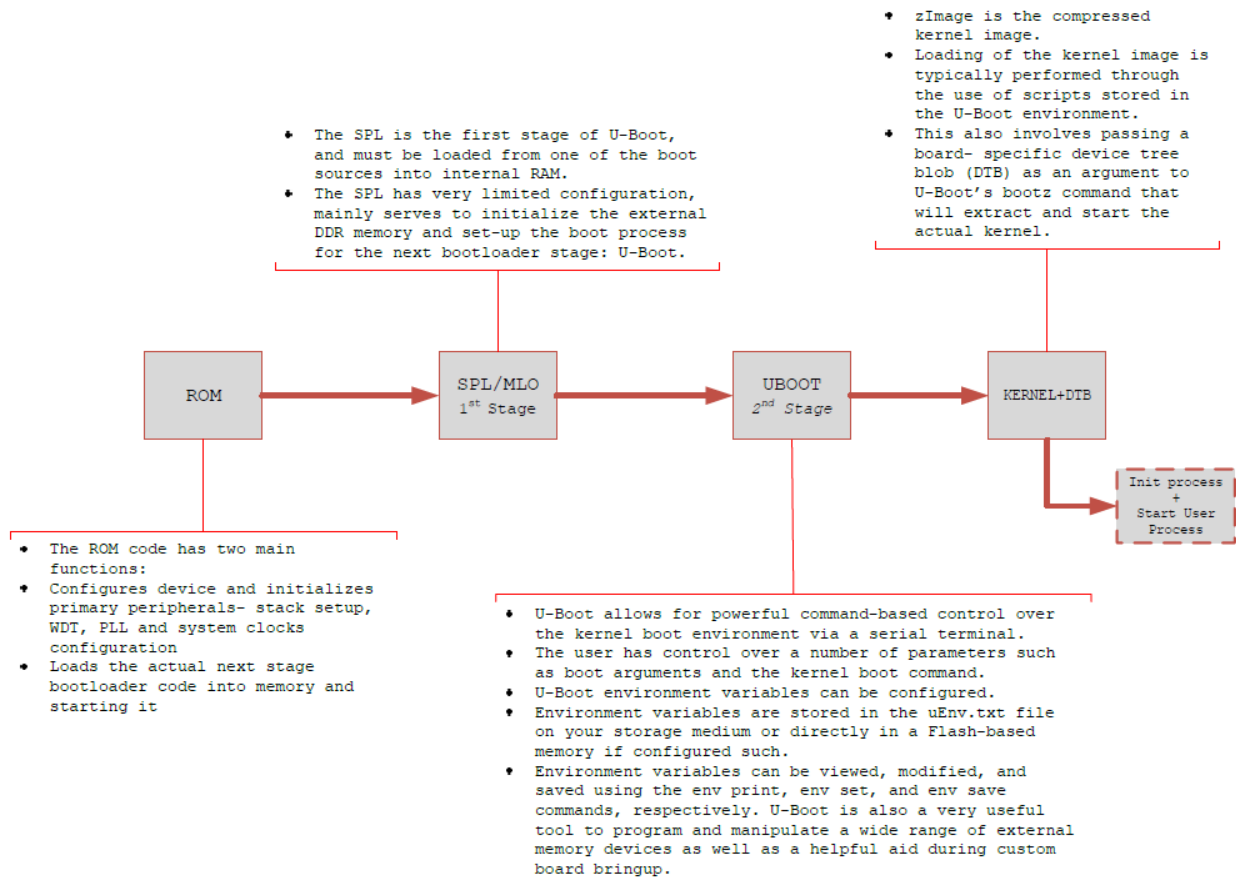
14



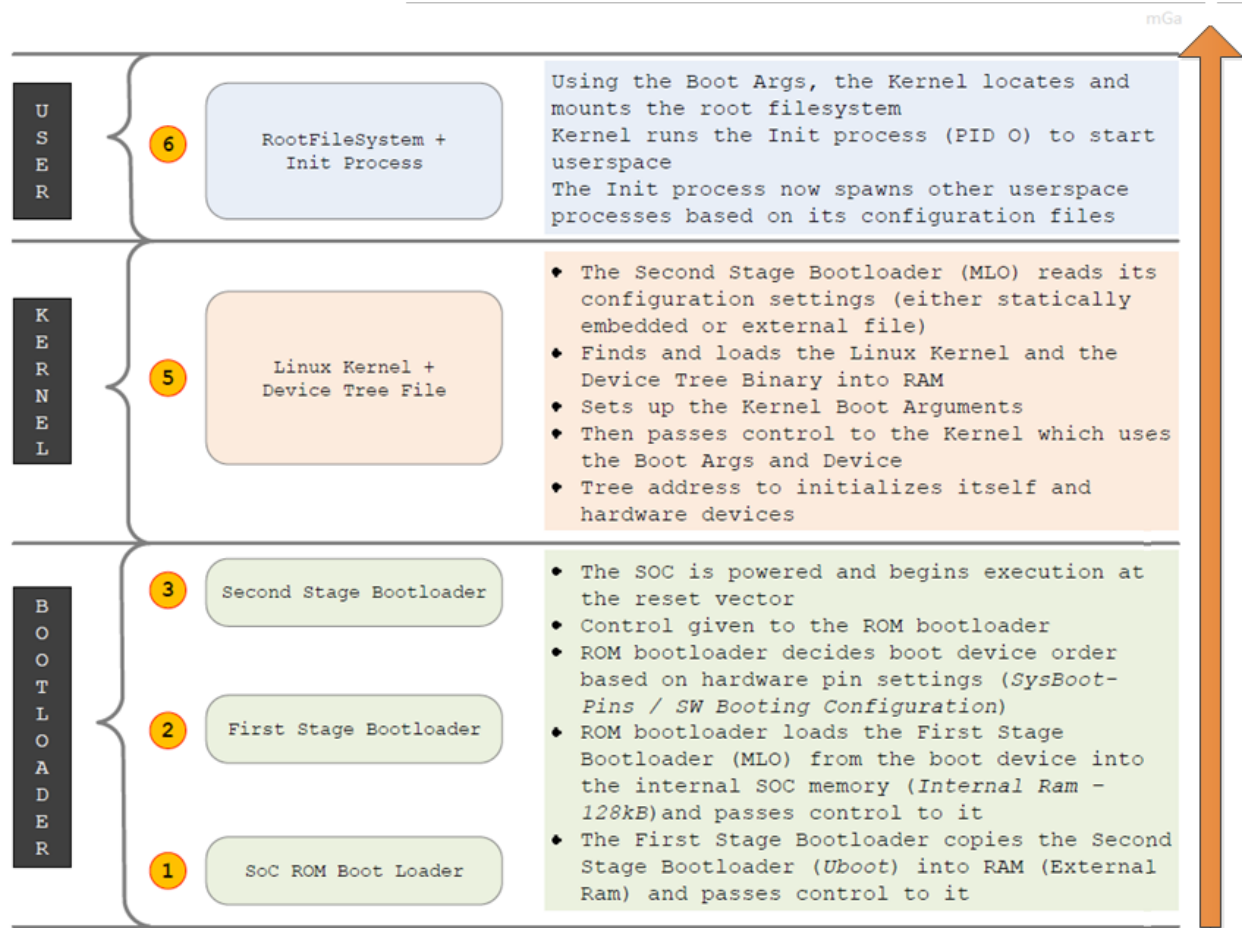
Understanding Linux booting process of TI-SITARA Processors



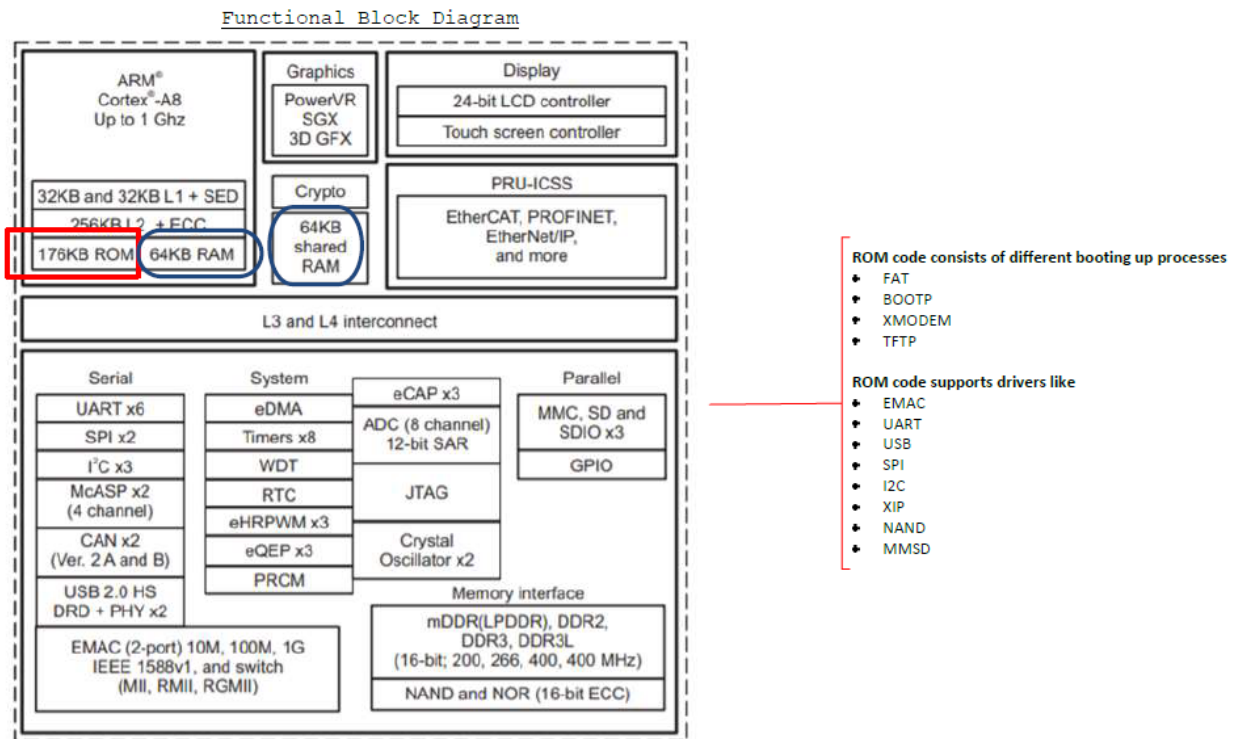
Overview of Linux booting



From two stage booting to loading linux kernel



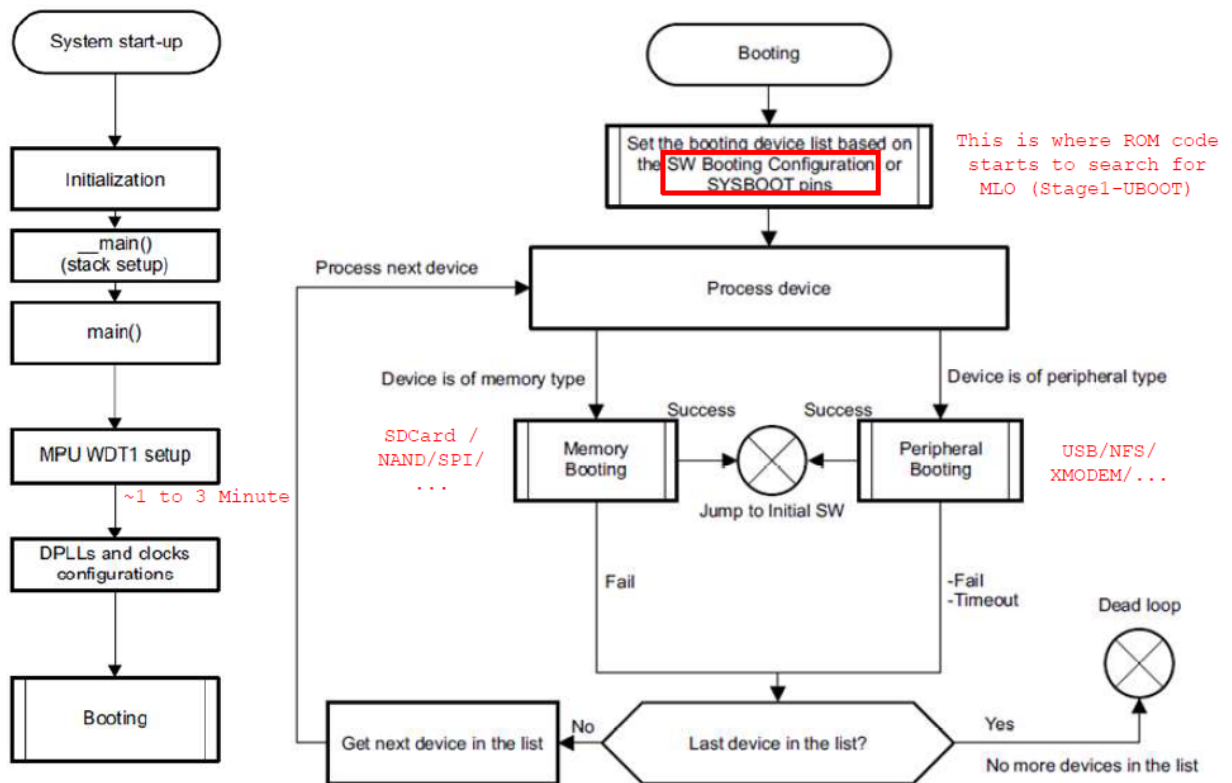
Understanding first stage bootloader - ROMBOOT - ROMCODE

From AM335x TRM**Figure 1-1. AM335x Functional Block Diagram**

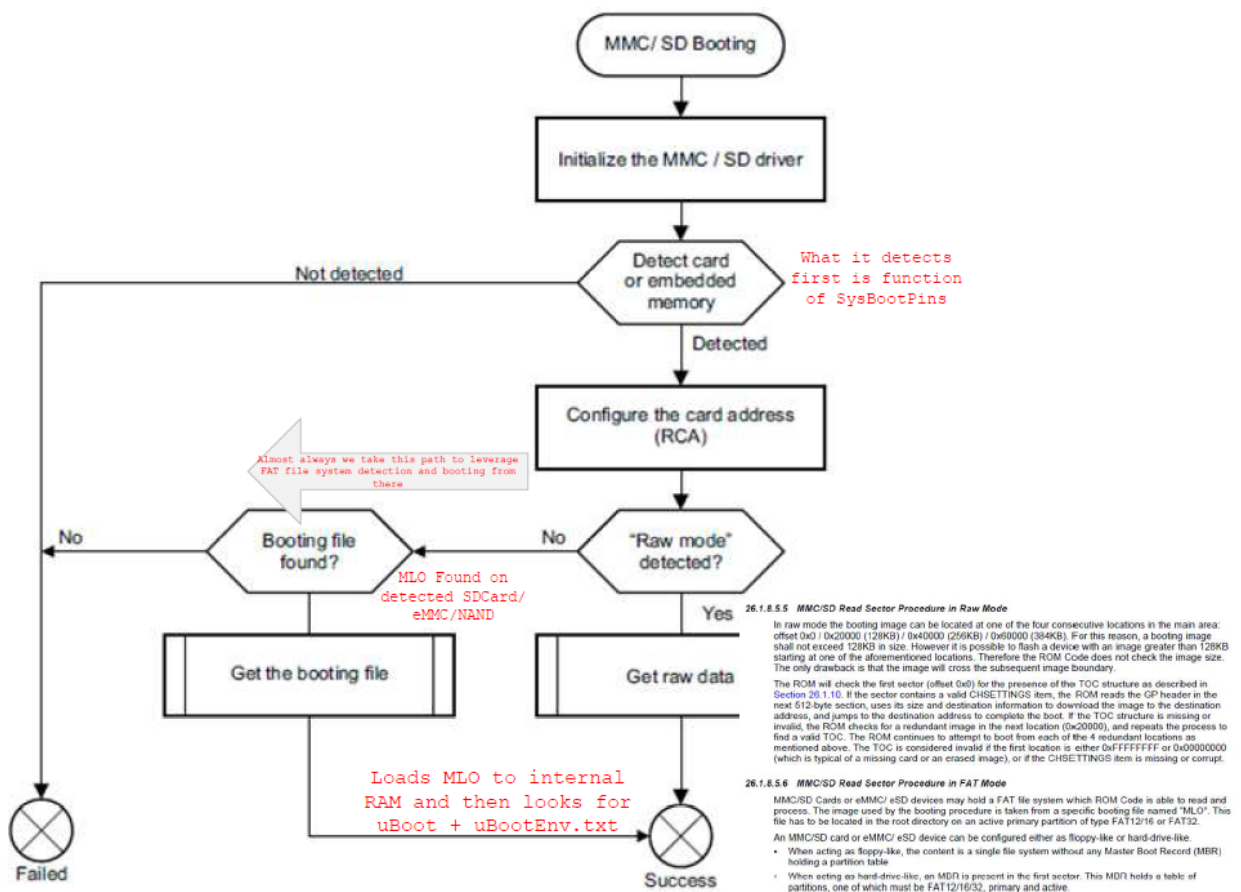
Only 176 Kbytes of Internal ROM Space this is where the ROM Code resides

128 Kbytes of Internal Ram (True when we apply generic Boot Mode than Secure Boot Mode)

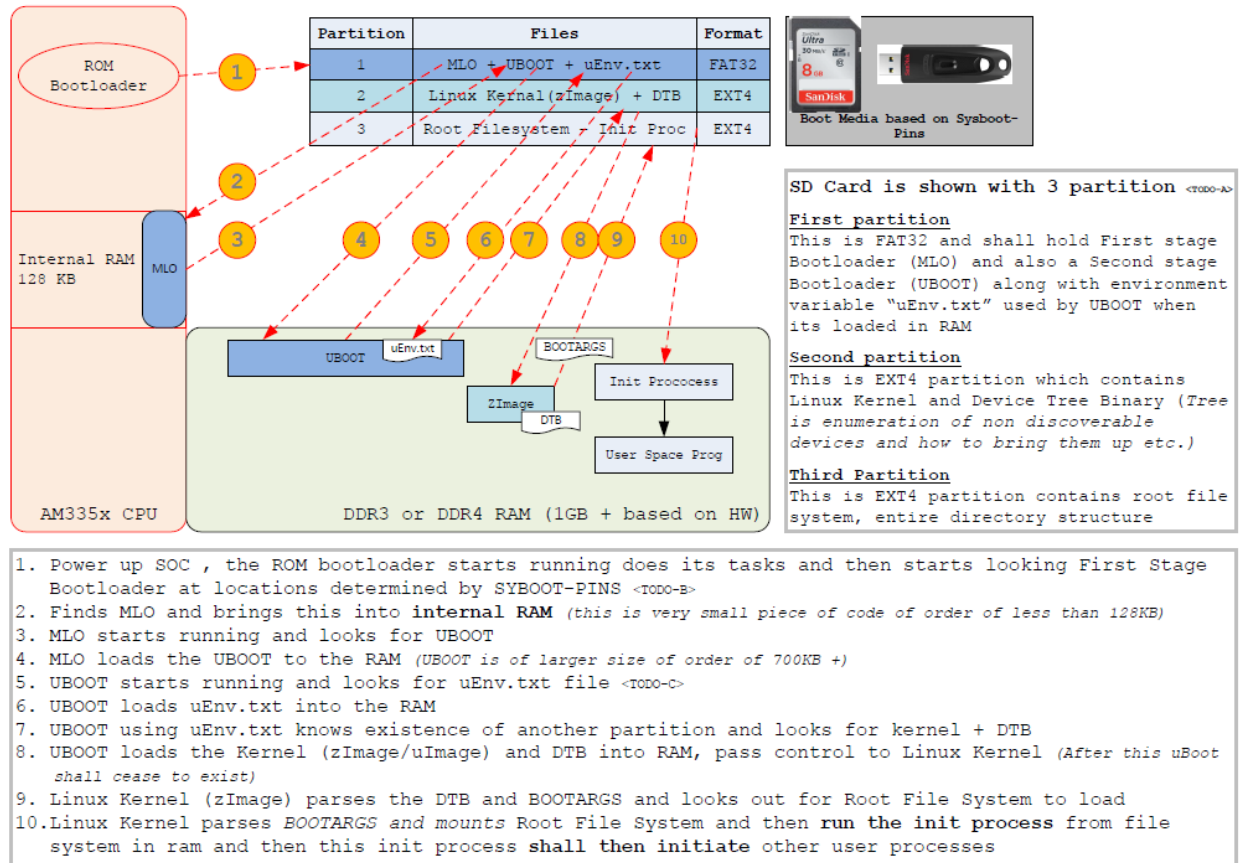
ROM-CODE Startup sequence



ROM-CODE Startup sequence - eMMC / SD-card Booting



Bootup Sequence and What we need to Know & Do



References

https://elinux.org/images/2/26/Enhancing_Real-Time_Capabilities_with_the_PRU.pdf

http://software-dl.ti.com/processor-sdk-linux/esd/docs/latest/linux/How_to_Guides.html

edited Oct 11, 2021 at 2:46

created Oct 9, 2021 at 13:13



mahesh-gaikwad

753 ● 1 ● 11

1 ▲ it is helpful to me understanding boot process – user107 Jan 24, 2022 at 7:03

1 ▲ There is good video on this that can demonstrate the run time:[youtube.com/watch?v=DV5S_ZSdK0s](https://www.youtube.com/watch?v=DV5S_ZSdK0s) – user97 Feb 17, 2022 at 3:48

Thanks for sharing link, i did refer this link when i was getting my understanding on this subject.
– mahesh-gaikwad Feb 17, 2022 at 3:53