Building U-boot for pandaboard

- Export Cross-compiler path for Cortex-A9
   PATH=$PATH:$(PATH_OF_CORTEX-A9)

- Configure u-boot for pandaboard
   veda@linux # make omap4_panda_config

- Building u-boot for pandaboard
   veda@linux # make CROSS_COMPILE=arm-linux-

- After a successful compilation, you should get the following U-Boot images.
   1. **MLO**
   2. **u-boot.img**

Building Linux Kernel for pandaboard

- Export Cross-compiler path for Cortex-A9
   PATH=$PATH:$(PATH_OF_CORTEX-A9)

- Configure Linux kernel for pandaboard
   veda@linux # make ARCH=arm omap2plus_defconfig

- Building Linux Kernel for pandaboard
   - **make ARCH=arm CROSS_COMPILE= $(CROSS_PATH) uImage**
      LOADADDR=0x80008000
   - **make ARCH=arm CROSS_COMPILE=$(CROSS_PATH) modules**
   - **make ARCH=arm CROSS_COMPILE=$(CROSS_PATH) modules_install**
      INSTALL_MOD_PATH=$(PANDABOARD_ROOTFS_PATH)
   - **make ARCH=arm CROSS_COMPILE=$(CROSS_PATH) omap4-panda-es.dtb**

Rootfs for pandaboard
- **vim etc**
   # Startup the system
   null::sysinit:/etc/init.d/rcS
   # Start shell on serial
   ttyO2::respawn:-/bin/sh
   # Stuff to do before rebooting
   null::shutdown:/bin/umount -a -r

Booting pandaboard

   - Create 2 partions on SD card (BOOT, ROOTFS)
      BOOT partion should be fat32
      ROOTFS partion can be any linux filesystem

- Copy following file to BOOT Partition
    cp MLO u-boot.img uImage omap4-panda-es.dtb
- Create uEnv.txt in BOOT partition
    vim uEnv.txt
        bootargs=root=/dev/mmcblk0p2 console=ttyO2,115200
        bootcmd=mmc rescan; setenv bootargs ${bootargs};fatload mmc 0:1
        0x81000000 uImage; fatload mmc 0:1 0x82000000 omap4-panda-es.dtb;
        bootm 0x81000000 - 0x82000000
        uenvcmd=boot
- Copy pandaboard rootfs to ROOTFS partition
- Boot pandaboard with SD Card