Dear TI,

Currently, I designed an evaluation board using OMAPL138EZWTD450 chip. The OMAPL138EZWTD450 chips are bought from retail .

The DSP core can run the DSP demo examples from starterware. Also, I want to use both cores, the arm core runs linux OS， and the DSP core runs signal processing. I put the uboot program and linux kernel to SD card, and set OMAPL138 boot from SD card. The SD card can start the uboot image, shown in Fig.1

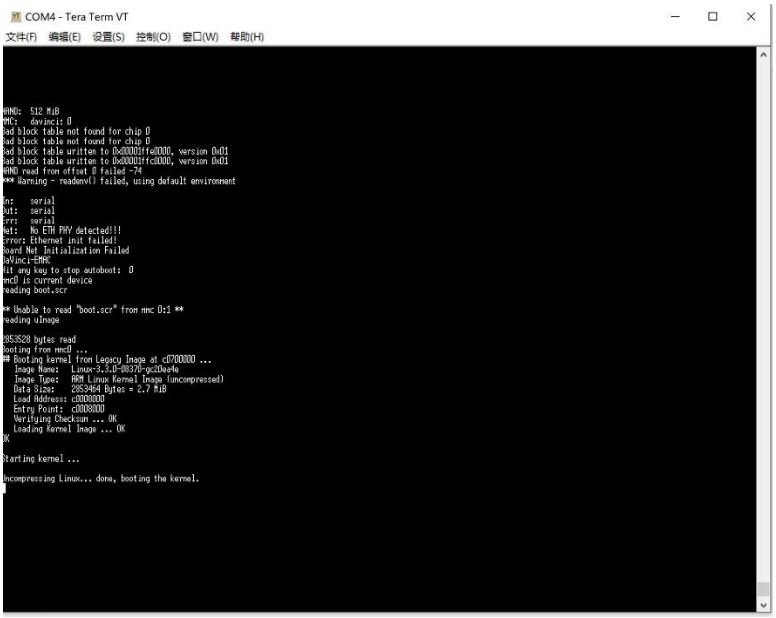

Fig.1 The information printed by uboot.

Then the program is forever stopped at “ uncompressing linux… done, booting the kernel”. I use the same SD card to launch two other evaluation boards successfully, one evaluation board is designed by Chinese TL company, the other is OMAPL138 LCDK designed by TI. So the I am sure the uboot and linux kernel program in the SD card

is correct. Then I compare the environment parameters in uboot, even the parameters are the same, my board still do not start the linux kernel, it still stopped at “uncompressing linux… done, booting the kernel”.

Fig.2 shows the environment from my board.

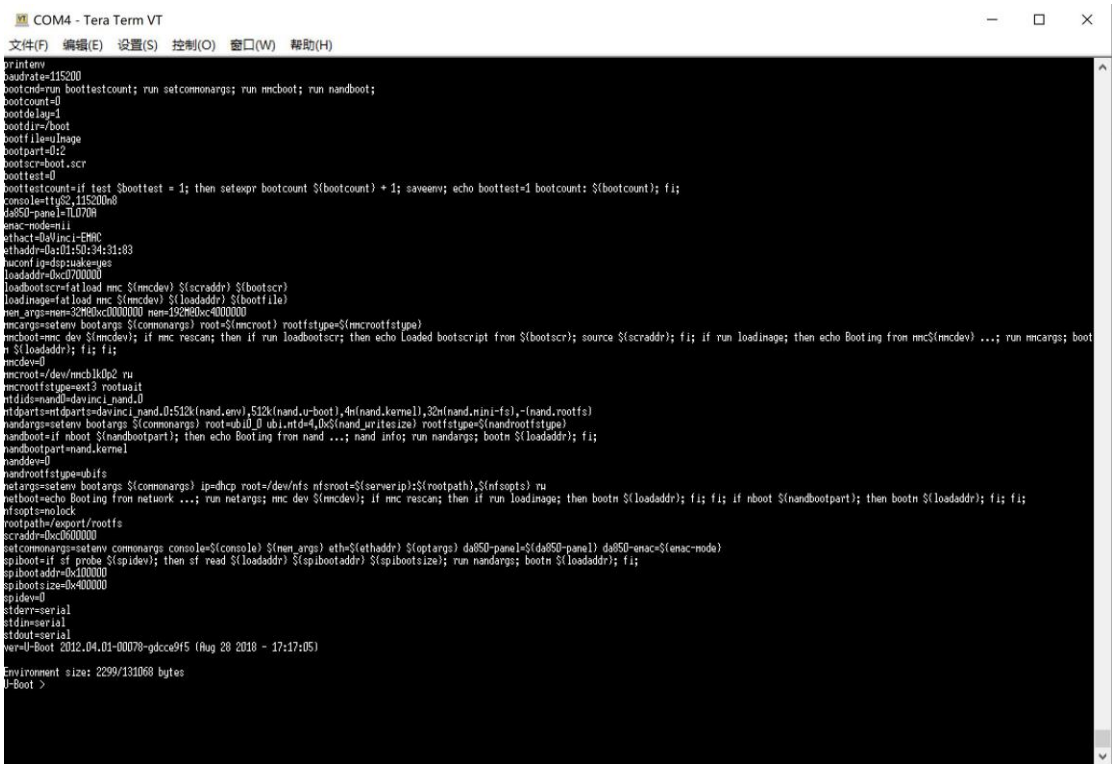

Figure 2 the environment printed from uboot

Then I print the board information using “bdinfo” instructions in uboot, Fig.3 shows the information for evaluation Board designed by TL company, Fig.5 shows the information for OMAPL138 LCDK, and Fig.3 shows the information for my board. From the three figures, when the parameters (TLB addr, relocaddr, reloc off, irq_sp, sp start, FB base) are the same, shown in fig.3 and fig.5, the linux kernel can boot successfully. Compared with my board shown in fig. 4, the parameters “TLB addr”, “relocaddr”, “reloc off”, “irq_sp” are

different. Is the reason that my board cannot launch the linux kernel? How to address the problems? I am waiting for your suggestions, thank you very much

Fig.3 One evaluation Board designed by TL company

Fig.4 My Board

Fig.5 OMAPL138 LCDK designed by TI