Cubietruck android Serial debugging and

common problems

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内容目录

1. Serial debugging

 TTL line connection: pay attention to don't connect the red pin

1.1 window

1.1.1 The experiment equipment

1) PC

2) CubieTruck with installed system

3) serial the line of USB to TTL

4) SecureCRT

5) USB drive :HL2303

### 1.1.2. the step of debugging environment

1)Use USB to TTL serial port connected to the development board UART debugging interface,for example:

black ——GND
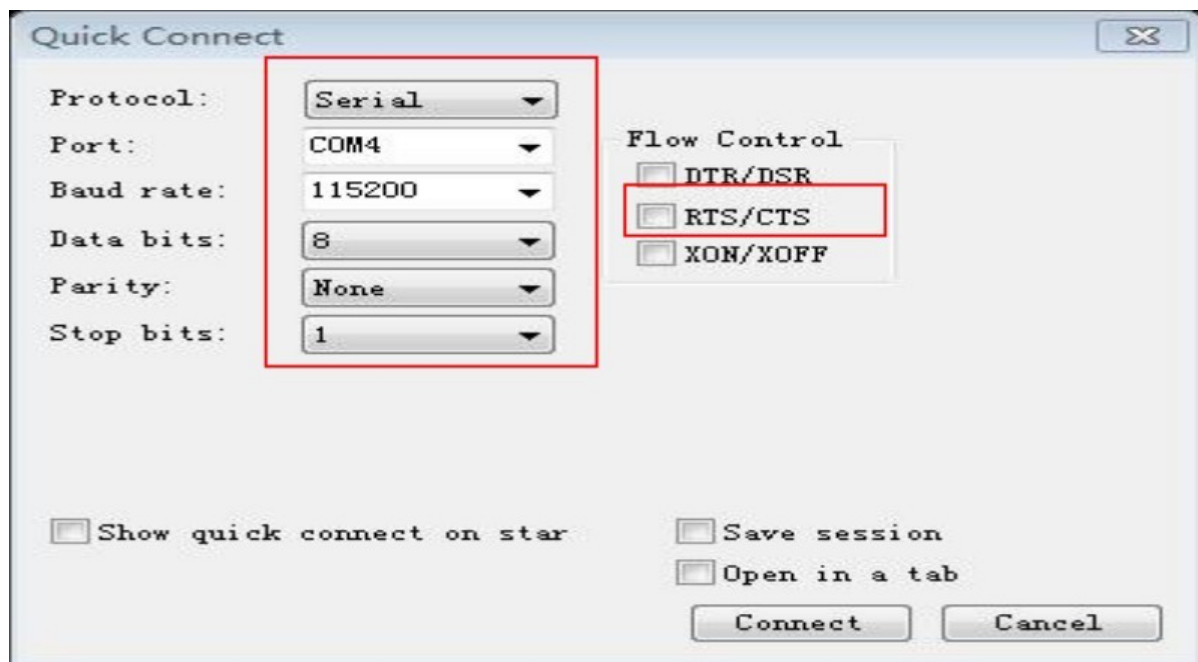
red——Don't connect

green ——RX

white ——TX
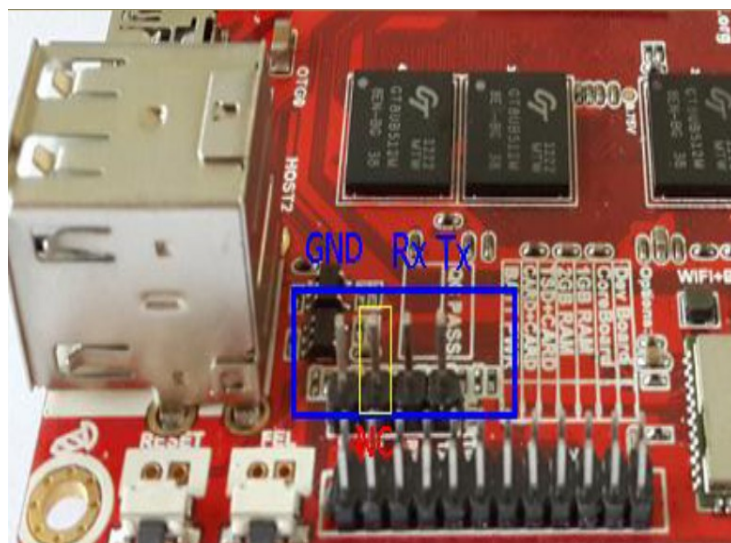
2) Installed USB serial port driver (HL2303) in PC, connect to the PC with the line of USB to TTL .

3) Right click computer choose management 、 device manager port, check your PC using the port . As shown in the figure below: shown here is com4 (according to their actual port number).
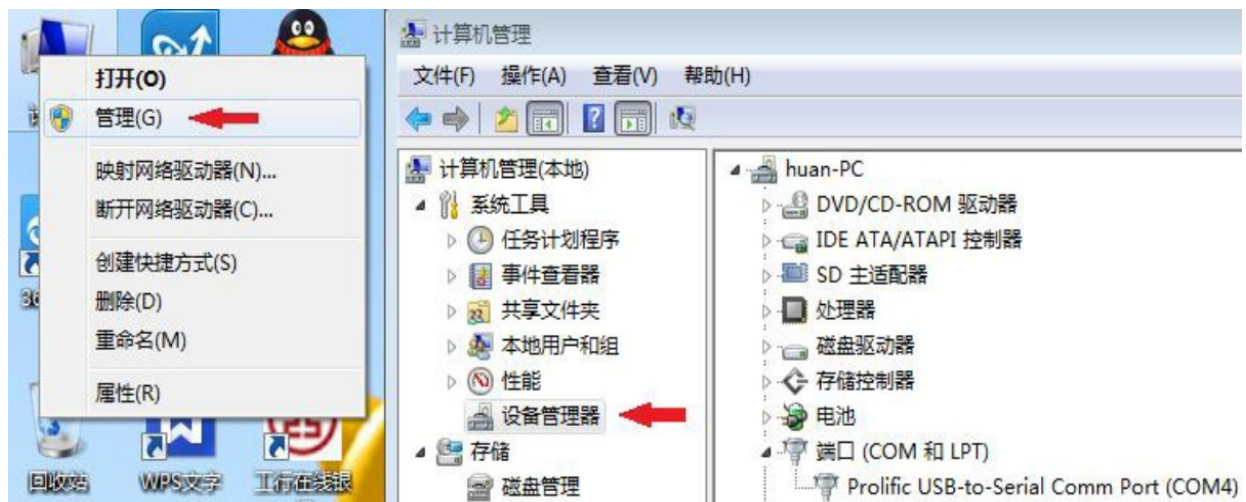
4)run SecureCRT ,setting :

5)click Connect ,Connect to the Linux serial port terminal. If no response, press the enter key several times. if response. As shown in the figure below:
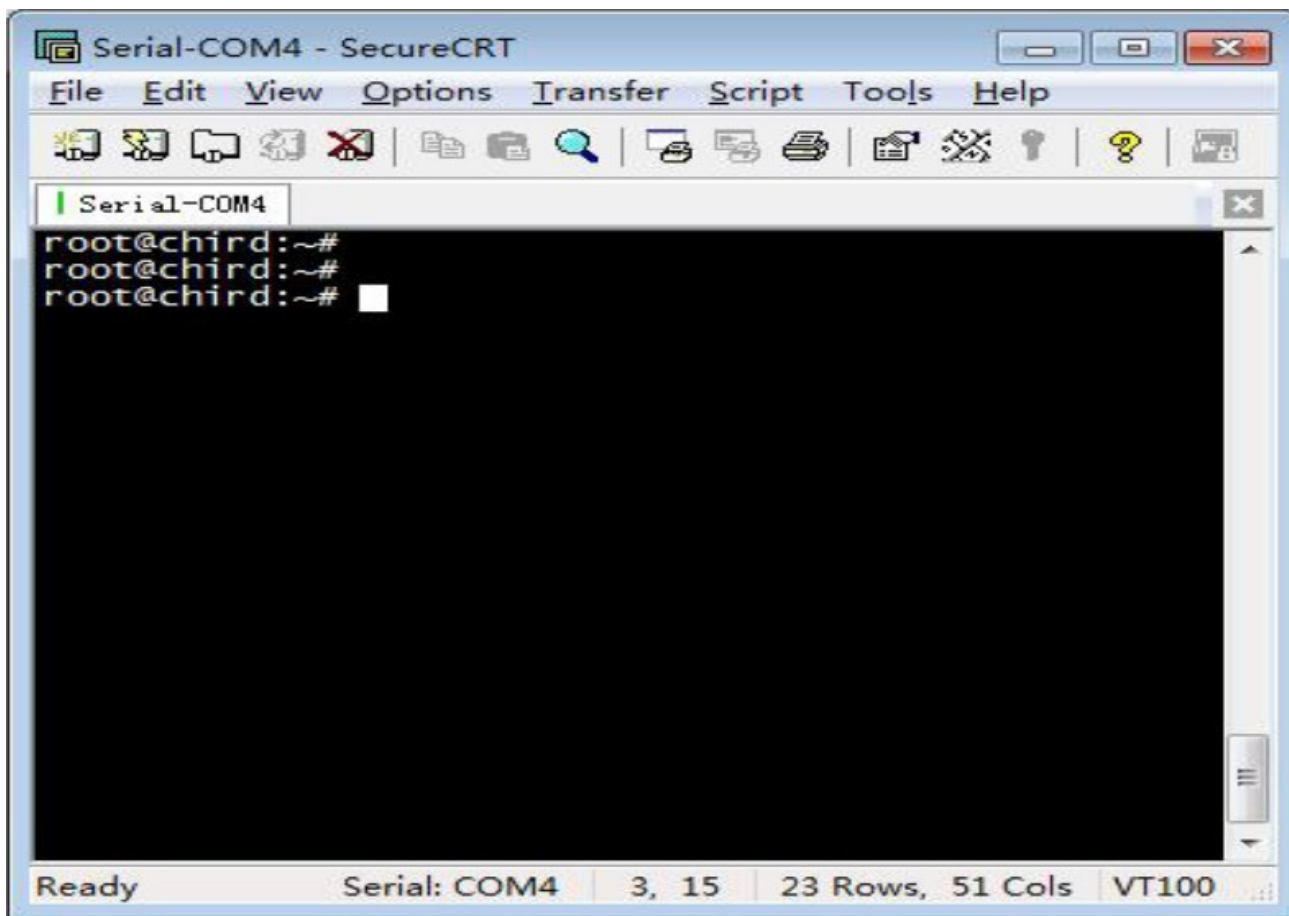
6)At this point, CubieTruck debugging environment is set up, can undertake development board parameter Settings.

1.2 linux

1.2.1 minicom
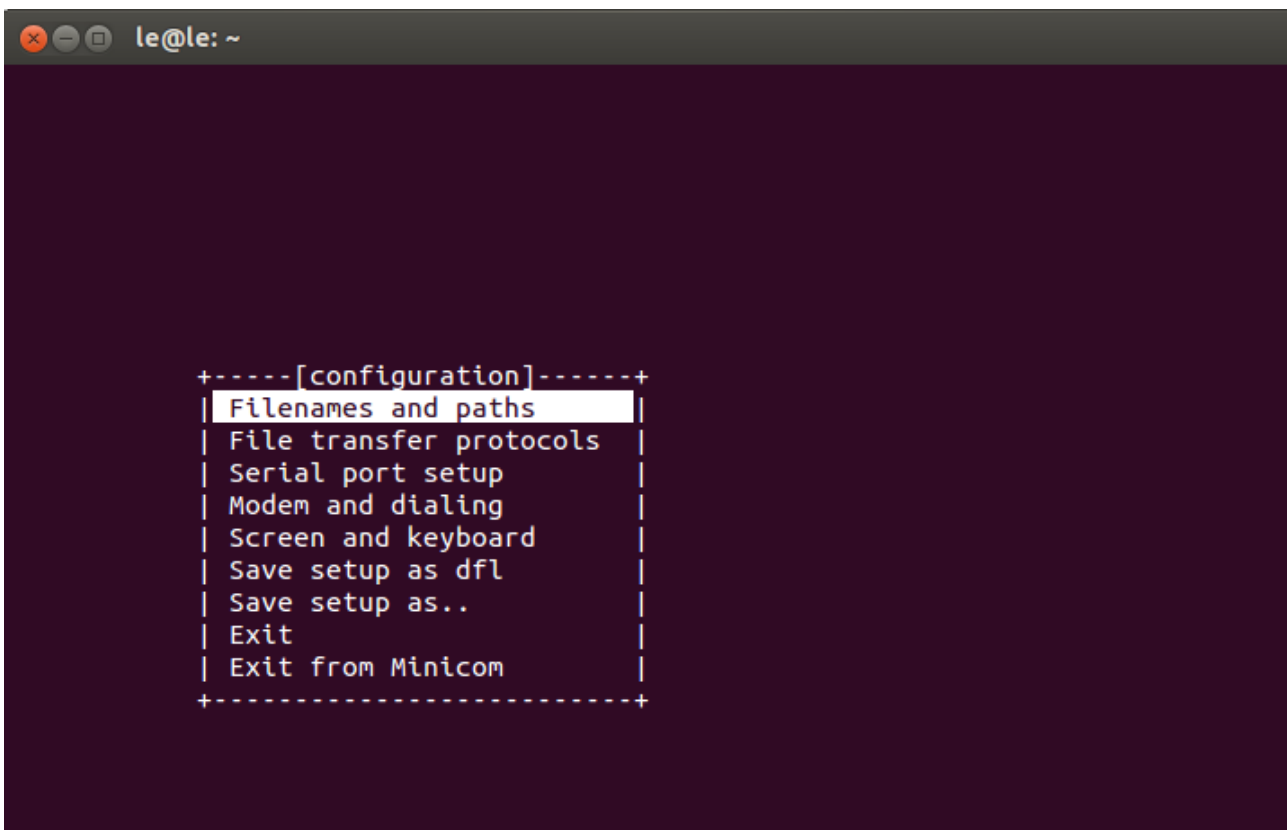
1)install minicom:

le@le:~$ sudo apt-get install minicom

2)configuration of minicom:

le@le:~$ minicom -s
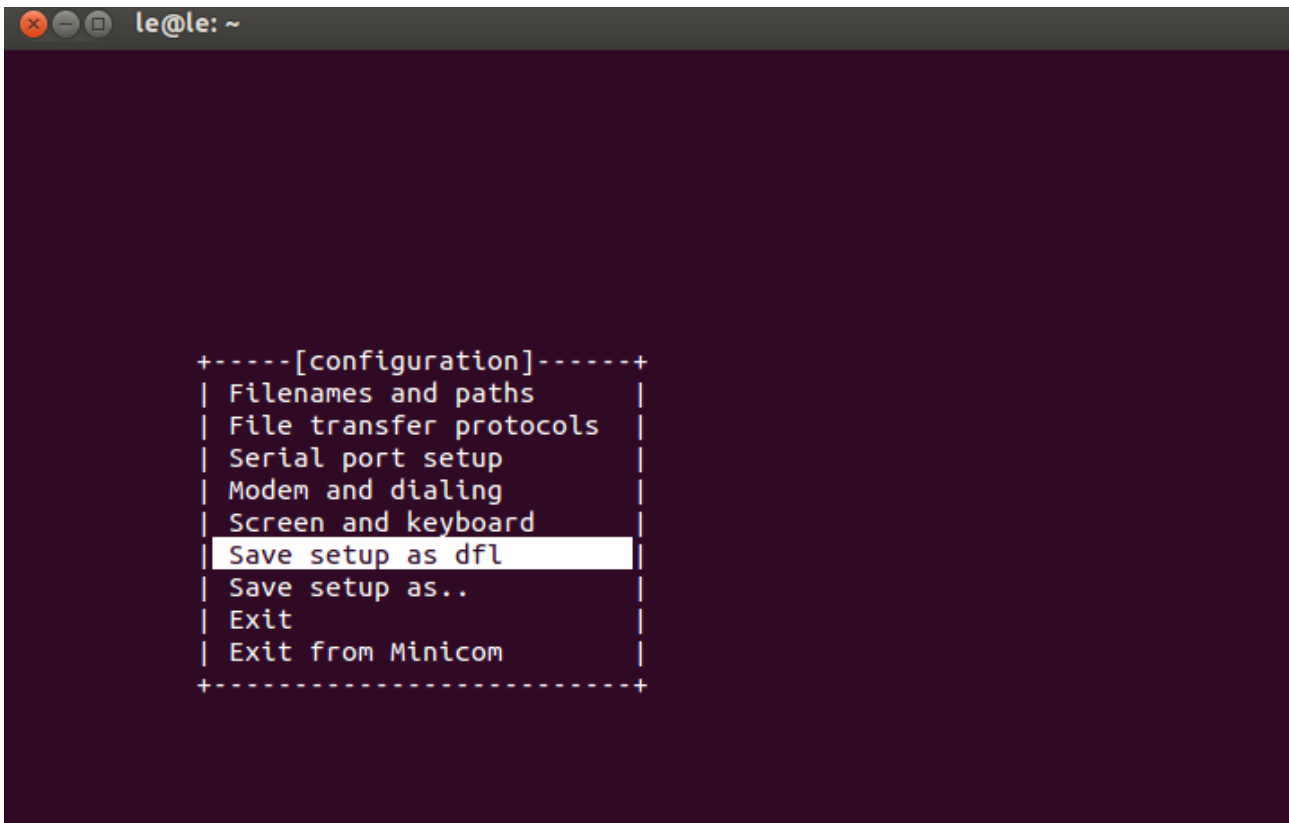
```
 😕 ⊖ ◻   le@le: ~


                +-----[configuration]------+
                |▏Filenames and paths     |▏
                | File transfer protocols  |
                | Serial port setup        |
                | Modem and dialing        |
                | Screen and keyboard      |
                | Save setup as dfl        |
                | Save setup as..          |
                | Exit                     |
                | Exit from Minicom        |
                +--------------------------+
```

Choose the third line "Serial port setup", press enter

Modify the configuration as follow:

```
+------------------------------------------------------------+
| A -     Serial Device      : /dev/ttyUSB0                  |
| B - Lockfile Location      : /var/lock                     |
| C -     Callin Program     :                               |
| D -   Callout Program      :                               |
| E -      Bps/Par/Bits      : 115200 8N1                    |
| F - Hardware Flow Control  : No                            |
| G - Software Flow Control  : No                            |
|                                                            |
|     Change which setting?  █                               |
+------------------------------------------------------------+
           | Screen and keyboard    |
           | Save setup as dfl      |
           | Save setup as..        |
           | Exit                   |
           | Exit from Minicom      |
           +------------------------+
```

And then press enter to return to the following the interface, select the sixth "Save setup as dfl"

3)Then click "Exit"

connected to CubieBoard 2 according to the way of TTL,after Access to electricity then can be input .

le@le:~$ sudo minicom

2.more help

3.1 Chinese BBS

Deep embedded technology and the Chinese community

http://forum.cubietech.com/forum.php

3.2 linux community

http://linux-sunxi.org

3.3 CubieTech

support@cubietech.com

4.FAQ

1 Can take cubieboard learn programming?

Answer: ok, give cubieboard brush on Linux system can be in cubieboard C, C + +, Java, python and other languages.

2 . My technical level are bad,Feel a bit difficult to learn ARM cubieboard. Suitable to buy?

Answer: play cubieboard many are started with the novice, many Chinese BBS to fit data. In BBS more questions. There is no problem to step by step to it.

3 What the interface。

Answer: the commonly used with USB, SD card slot, HDMI hd interface (display), TTL serial port. Ethernet front-end ports, audio interface, expand GPIO port. I2C, SPI interface, etc.

4 Where I can find a cubieboard learning material?

Answer: recommend a Chinese BBS:http://cubietech.com/forum.php. BBS (new user will see resources integration, BBS has a search function. Keyword search is available.

The inside of the website: http://docs.cubieboard.org/, If you don not understand ,please use Google translation, or go to the Chinese BBS to ask questions.

5 what cubieboard can brush system, where to find the system firmware?

Answer: Cubieboard can run android and a nimble, debian, fedora distributions, etc. Here you can downloade to:http://dl.cubieboard.org/

6 can take cubieboard to do?

Answer:Cubieboard it can be applied in 3 D printers. ARM Hadoop servers, smart home and other commercial areas. For the players. We can do all kinds of electronic DIY such as smart car. Electronic door lock. Includeing: video monitoring. Set up the web server. Hot as the router configuration, samba share, network printer, TV box.

7. Can buy when TV box?

Answer: ok, can install into the android TV box, we can see a variety of network television, PPTV, qiyi, tudou, youku, PPS, CNTV, etc. XBMC watch network TV on Linux bottoms.

8 Cubieboard foreign company is a production?

Answer: no, it is design and production of domestic company.

9. I download on the net of a system image, and A10 A20 board can be used?

Answer:no, A10 system on the A20 ran up, on the other hand, too, so download to see when you download mirror is in compliance with your CPU.

10. Domestic where did you get better?

Answer: domestic taobao search Cubieboard, can buy. Official before opening the micro letter.

11. How power supply for?

Answer: it usually give 5 v 2 a, cannot change the voltage, electric current may be less than, based on the amount of peripherals connect you. It is at least 500 ma, namely the USB port of computer can provide.

12 can connect Sata hard drive? The SSD?

Answer: ok. 2.5 -inch SSDS solid hard disk directly connected. 3.5 -inch mechanical hard disk to an external power supply board independent power supply.

13 Do you have any with wifi?

Answer:cb1 cb2 without wifi , but it can be an external USB wireless network card, ct itself to integrate the wifi.

14. Can take camera?

Answer: can an external USB camera, camera are generally cheaper too.