Data Create	2015/03/26	Release Note	□ Internal ■ External
Category	FAQ	Product Group	IAG
Function	Communication	Related OS	Linux
Related Product	UNO-2174A		

[Abstract]

How to Install Com Driver in Linux Terminal

[Solution]

1. Ctrl + Alt + F2
   A. To change window to Terminal and type the following instrument.
2. uname -r
   A. To print the current Linux kernel information.
   B. In this case, the kernel version is “2.6”.

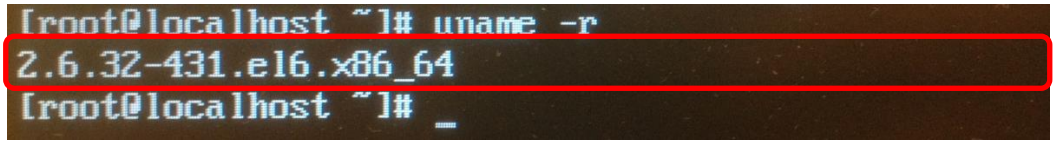

Figure: The version of Linux.

3. Go to Advantech website to download UNO-2174A Linux driver and extract it. (Linux driver for Adv950)
4. Copy and paste the corresponding file to the USB disk. Remember that the format of USB disk should be FAT32.
   A. In this case, I only copy 2.6 file to my USB disk.

Stage 2: Mount the file

1. fdisk -l
   A. To list disk partition, you can find USB disk path.
   B. In this case, the USB disk path is /dev/sda1.

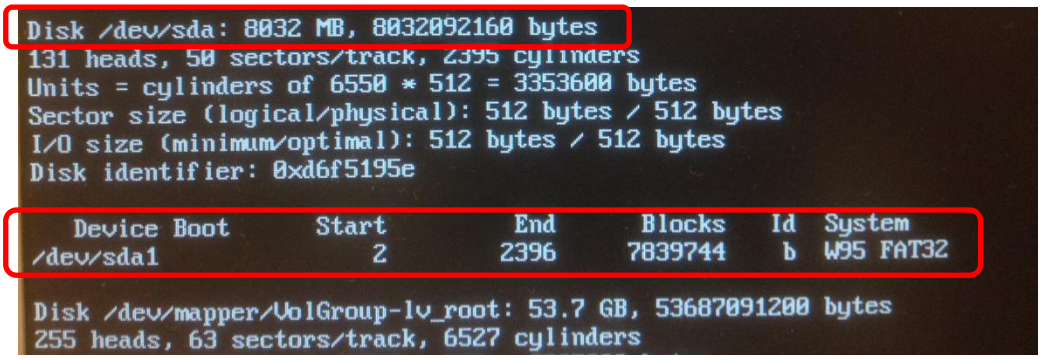

Figure: As you can see, my USB disk is 8GB, and the path is /dev/sda1.

2. mkdir /tmp/driver
   A. To create a new file which called “driver” under “tmp” path.
3. mount /dev/sda1 /tmp/driver
   A. To mount the USB disk on this path.

Stage 3: Go to the file and make installation

1. cd /tmp
2. cd driver/
3. cd 2.6/
   A. Go to the driver material file.
4. ls
   A. To list all files within this level.

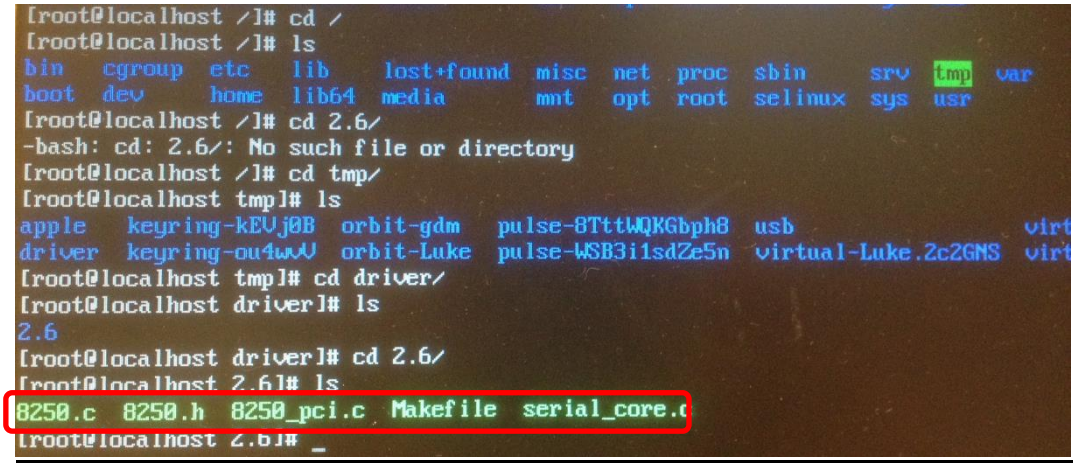

Figure: You can see there is a “Makerfile”.

5. make
   A. Compile the file.
6. make install
   A. Installation.
7. lsmod | grep adv
   A. Search module name which relates to “adv”.
8. ls /dev/ttyAP*
   A. You can find ttyAP0 and ttyAP1, which is the name of COM A and COM B.

Stage 4: Com port test

1. yum install minicom
   A. Install application program “minicom”, which is one of com port test tools.
   B. Yum instrument means apt-get in other version of Linux.
2. minicom -s
   A. Create a new connection.

   B. Serial port setup -> Device name use com port ttyAP0, which stands for COM A.
3. Select COM mode
   A. In this case, COM A and B will auto detection RS422/485 mode.
4. Connect the corresponding wire and transmit data.
   A. If the data shown, it stands for the com port have passed the test.