# How to install PCIPORT driver in Debian 5.0 Linux

1. **Please "tar" Linux driver diskette in root directory.** So we can install all source file in **/etc/rayon** directory.

```
# cd /
# tar xvf /dev/fd0
```

2. Please confirm that you have installed development environment package in your Debian 5.0 Linux system.

```
# cd /etc/rayon/etty
# make
```

If you had installed development environment package in your Debian 5.0 Linux system, then you will generate "etty" utility execution file.

3. If you did not install development environment package in your Debian 5.0 Linux system, then you need to install firstly.
System-->Administration-->Add/Remove Applications--> Programming

4. In /etc/rayon directory we can run "Install.ubuntu" to install our driver. Because we may need to use the **"build"** environment under **/lib/modules/2.6.26-2-686** (for example we have 2.6.26-2-686 version in this Debian Linux system).
If you did not have such **"build"** environment under such directory, then we need to have **"module-assistant"** utility firstly.

```
# cd /etc/rayon
# ./Install.ubuntu
```

If you had "build" environment, then it is no problem to install driver.
If you did not have "build" environment, then we may have error message.

5. We need use following procedure to install "module-assistant" utility.

```
# apt-get  install  module-assistant
# m-a  prepare
```

# m-a update

Now we can find "build" environment in /lib/modules/2.6.26-2-686 directory.

6. When we have "build" environment, we can run "Install.ubuntu" to install our Linux driver again. And you can have extra serial port device in next boot. For example, you have installed our P588 card (PCIPORT card series) in your Debian 5.0 system. Then you can have device name /dev/tty81a -- /dev/tty81h for serial port P1--P8.

```
#cd /etc/rayon
#./Install.ubuntu
```

7. You can test serial port function in /etc/rayon/etty directory.

```
#cd /etc/rayon/etty
#./etty -t 115200 1M 1 tty81a
```

Above command line will transmit 1MByte data in serial port /dev/tty81a for 115200bps.