



## Enable ICOP-1800 in Linux

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Support that there are only 2 serial ports in your board. After adding ICOP-1800, there are 6 serial ports on his device. If Linux kernel can not find all of them, user has to add/set serial ports on ICOP-1800 by hand. Those steps will show user how to add them:

1. Suppose IRQ of ICOP-1800 is 5 and I/O address is started from 0x280 (for example only).
2. Check /dev/ttyS2 ~ /dev/ttyS5. If there do not exist. Make the nodes by hand:

```
mknod /dev/ttyS2 c 4 66
chmod 660 /dev/ttyS2
mknod /dev/ttyS3 c 4 67
chmod 660 /dev/ttyS2
mknod /dev/ttyS4 c 4 68
chmod 660 /dev/ttyS2
mknod /dev/ttyS5 c 4 69
chmod 660 /dev/ttyS2
```

3. Run "setserial" to set IRQ and I/O address:

```
setserial /dev/ttyS2 irq 5 port 0x0280 uart 16550
setserial /dev/ttyS3 irq 5 port 0x0288 uart 16550
setserial /dev/ttyS4 irq 5 port 0x0290 uart 16550
setserial /dev/ttyS5 irq 5 port 0x0298 uart 16550
```

4. Run "setserial -g /dev/ttyS\*" to dump serial ports setting.

After those operations, Linux can recognize your serial ports. Also, add those operations into start-up script.

### Technical Support

For more technical support, please visit <http://www.dmp.com.tw/tech> or mail to [tech@dmp.com.tw](mailto:tech@dmp.com.tw).