Re: Problems w/ serial flow control

Source: http://linux.derkeiler.com/Mailing−Lists/Fedora/2006−05/msg05380.html

- *From*: Philip Prindeville <philipp_subx@xxxxxxxxxxxxxxxxxxxx>
- *Date*: Wed, 31 May 2006 12:48:22 −0600

Rick Stevens wrote:

> On Wed, 2006−05−31 at 12:14 −0600, Philip Prindeville wrote:
>
> > Tim wrote:
> >
> > > On Tue, 2006−05−30 at 21:25 −0600, Philip Prindeville wrote:
> > >
> > > > I'm running FC3 on an MSI−7142 (K8MM−V motherboard), and using the two serial ports on the m/b. I used the stock out−of−the−shrinkwrap settings for most hardware (except for the sound board and X drivers), and things have worked fine.
> > > >
> > > > But... when connecting to a router's console at 115200 with either RTS/CTS or XON/XOFF flow control, I'm seeing dropped characters.
> > >
> > > Looking at a friend's router, his one's serial port connection *ONLY* had the three−wire type of serial connection. So his couldn't possibly use hardware handshaking (RTS/CTS). Perhaps yours can't too?
> > >
> > > Also, check what your router says about its maximum port speeds and handshaking protocols.
> >
> > It is an 8−wire connection (over RJ−45 to DB−9), and can do 115200 (max rate) with either XON/XOFF or RTS/CTS.

> I've tried both, and they're both lossy.
>
> The issue is on the PC as the receiver...
>
> > Remember that both ends have to agree on the flow control. If one is
> > running RTS/CTS and the other is XON/XOFF, you don't have flow control.
> > At 115K, I'd always opt for RTS/CTS...XON/XOFF requires CPU intervention
> > unless you have fairly sophisticated hardware. All you have to do is
> > be a bit pokey at responding to an interrupt and you'll drop characters.
> > RTS/CTS is usually done at the hardware level and is a bit more
> > reliable.

I started with RTS/CTS... And had it set on both ends.

I'm using the FC5 version of kermit. My .kermrc looks like:

```
set modem type none
set line /dev/ttyS0
set carrier−watch off
set speed 115200
set flow rts/cts
set parity none
set stop−bits 1
connect
```

Not sure what the difference is between "/dev/tty0" and
"/dev/ttyS0"...

−Philip