

Q: When trying to set up my modem, getty seems to make my send and receive lights flash, and there are strange login processes running in my process table.

A: The problems you are seeing are due to your modem's 'character echo' setting. The character echo setting (typically set with ATE x where $x = 1$ or 0) tells the modem to either echo characters back or not. Character echo should be turned OFF.

The following list contains suggestions that can help you configure your modem properly:

- A hardware handshake cable should be used, and modem should be configured properly for hardware handshaking (also known as rts/cts flow control).

For example: ATelebit T3000 uses register s68 to define hardware flow control. It should be set for RTS/CTS flow control ON.

- The entries in /etc/ttys and /etc/gettytab whether or not you are using the " f " flow control device drivers. For example:

ttyda	"/usr/etc/getty std.9600"	unknown	off	secure
	^ <i>is not using hardware flow control</i>			
ttydfa	"/usr/etc/getty std.9600"	unknown	off	secure
	^ <i>is using hardware flow control</i>			

Note: The "f " device drivers are cufa, cufb, ttyfa, ttyfb, ttydfa, and ttydfb.

The speed of your getty entry should match the speed your modem is set to. It is important to lock the DTE rate, and set getty to the same speed. For example:

```
localhost# grep std.9600 /etc/gettytab
```

```
2|std.9600|9600-baud:\  
:sp#9600:
```

```
localhost# cu -s 9600 -l /dev/cufa
```

```
Connected
```

at&v

T3000SA - Version LA3.00 - Active Configuration

B1 E0 L2 M1 Q0 T V1 X1 Y0

&C0 &D0 &G0 &J0 &L0 &Q0 &R3 &S0 &T4 &X0

S000=0 S001=0 S002=43 S003=13 S004=10 S005=8 S006=2 S007=40

S008=2 S009=6 S010=14 S011=70 S012=50 S018=0 S025=5 S026=1

S038=0 S041=0 S045=0 S046=0 S047=4 S048=0 S050=6 S051=4

S056=17 S057=19 S058=3 S059=0 S060=0 S061=1 S062=15 S063=0

S064=0 S068=2 S069=0 S090=0 S093=8 S094=1 S100=0 S102=0

S104=0 S105=1 S111=255 S112=1 S180=2 S181=1 S183=25 S190=1

S253=10 S254=255 S255=255

OK

The S50 and S51 registers are set specifically for 9600 baud. Echo is OFF with ATE0.

In addition, if speeds of 38,400 baud are required, an entry like the following should be added to /etc/gettytab:

```
std.38400|38400-baud:\  
:sp#38400:
```

QA900

Valid for 1.0, 2.0, 3.0, 3.1