LaserWriter IINTX: Serial Connection Parameters

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TOPIC --

I have a LaserWriter IINTX attached serially to a Novell Netware server
and am trying to print PostScript files. But it's not working.

The LaserWriter is configured for PostScript, serial interface, and DSR/DTR
handshaking. The port settings are 9600 baud, no parity, 7 data bits, 1
stop bit, and no XON/XOFF. The server settings match and the cable is a
full handshake cable.

DISCUSSION --

Check the data bits setting; the default LaserWriter IINTX setting is for 8
data bits. Switching the server to 8 data bits, or the LaserWriter to 7 data
bits should solve the problem. The new "LaserWriter IINT/NTX Owner's Guide"
correctly states that 8 data bits is the default. Also, check the following
to be sure all settings are correct.

It sounds like you have the server connected permanently to the serial port.
We are assuming that the DIP switches are set for this configuration. The
DIP switches should be set to:

    Switch 1: Down
    Switch 2: Down
    Switch 3: Up
    Switch 4: Up
    Switch 5: Up
    Switch 6: Down

This sets the LaserWriter IINTX RS-232 port to 9600 baud and the RS-422 port
to 0 baud and sets the LaserWriter to PostScript batch mode and DSR/DTR
handshaking. These will remain as the default settings for the LaserWriter
until the switches are changed.

The other default settings that you cannot set with the DIP switches are no
parity check, 8 data bits, and 1 stop bit. You change these parameters and
those set with the DIP switches by using PostScript.

The PostScript code that you need to send to the LaserWriter IINTX to change

these parameters is:

```
serverdict begin 0 exitserver
statusdict begin PORT BAUD OPTIONS setsccbatch
```

In place of PORT, you need to put the number of the port you want to change.
Replace PORT with 9 for the RS-422 port and with 25 for the RS-232 port. The
BAUD parameter is simply the data transfer rate you want to use.

The OPTIONS parameter is a little more difficult. You need to know what
kind of parity you want to use, what kind of handshaking you want to use,
how many data bits, and how many stop bits. Use Table C-1 on page 121 of
the LaserWriter IINT/NTX Owner's manual (Table C-5 on page 153 of the new
manual) to find the option numbers.

In your case, for the RS-232 port at 9600 baud with no parity, DSR/DTR
handshaking, 7 data bits, and 1 stop bit, this is the PostScript program:

```
serverdict begin 0 exitserver
statusdict begin 25 9600 36 setsccbatch
```

Download this PostScript program to the LaserWriter IINTX to see if setting
the data bits to 7 fixes the problem.
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