Laserwriter Pro 630: Using with a SUN Workstation (8/93)

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TOPIC ---

I have the following problems when trying to use a Laserwriter Pro 630 from a SUN.

1) When printing a job in PCL mode, a control-D (often occurring in PCL downloadable font) terminates the print job. It appears from looking at a PDL file for the Laserwriter 8 drivers that this is reconfigurable. I would appreciate some more information on how to do this.

2) When using the switch 9 position and reconfiguring the serial port baud rate from 9600 to 19200 (non-volatile PRAM) the patch changes the baud rate, but upon restart defaults back to 9600. This isn't true in switch position 6. Is this a bug?

DISCUSSION ---

Here are the answers to your questions:

1) We assume you're talking about the PPD files for LaserWriter 8.0. Reconfiguring CTRL-D in the PPD file isn't possible. The section we believe you're referring to in the PPD file is the section for starting/stopping the emulator (that is, *StopEmulator_hpcl: "<1B7F>0"). This specific line of code executes an ESC-DEL-0 (hex 1B = ESC, hex 7F = DEL) which only stops the emulator, and not the print job. A CTRL-D is still required to end the print job, and CTRL-D is specifically what the PostScript interpreter looks for. We are currently unaware of a way to "reconfigure" the CTRL-D string.

   As for the problem at hand, the print job should NOT be terminating with the CTRL-D character if the printer is configured for HP PCL 4 and the "RAW" protocol. The "RAW" protocol is defined as follows:

 * Raw: Lets all data pass through unfiltered. Control characters such as End-of-file (CTRL-D) and status queries (CTRL-T) are passed through and not acted upon.

   On page 125-126 of the LaserWriter Pro 600/630 manual, all of the switch settings for HP PCL on the various ports show "RAW" as the protocol, so we are a little confused why the print job is terminating.

The only thing we can think of is that you are entering PCL mode via PostScript, as opposed to using one of the ports specifically configured for HP PCL. In this case, the protocol used would be Normal and not RAW.

2) We tried to reproduce this problem and were unable to. We used the LaserWriter Utility v7.4.1 to change the baud rates to 19200 on the Serial ports for switch positions 6 and 9, and the values persisted across power cycles. If you're changing the baud rates via PostScript code, then you want to be certain you're writing to the nonvolatile parameter set (that is, %Serial_NV4 as opposed to %Serial4). Thus, if you want to change the baud rate to 19200 for switch position 9 on the serial 25-pin port, then the following code will do this:

```
%%Begin
(%Serial_NV4%) <</Baud 19200>> setdevparams
%%End
```

By the way, the default baud rates for switch positions 6 and 9, are 19200 and 9600 respectively, so it appears that the problem lies in how the baud rate is being changed.

Keywords: <None>

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