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LaserWriter Pro: Tray Switching and Manual Feed (4/97)

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Security:       Everyone


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TOPIC -------------------------------------------------------------

How do you get a LaserWriter Pro 600/630 to take paper from the
multipurpose/manual feed tray and the cassette trays if paper is present in
all locations?  The LaserWriter II was able to pick up paper from the
manual feed tray and the cassette tray.

I have tried the LaserWriter 7.2 and 8.0 driver with the correct PPD and
have experimented with the various options with no success.



DISCUSSION --------------------------------------------------------

TraySwitching allows users to set up the printer to continue printing from
the next available paper tray or stop printing and return an
"Out of Paper" message when the tray being used runs out of paper.

We have a LaserWriter Pro 630 configured so that it takes paper from the
default tray if there is paper present, and will switch to the other trays
when the default tray runs out of paper.  Here is how we are achieving it:

1) Use the LaserWriter 8.0 driver with the respective LaserWriter Pro PPD.

2) Download the following PostScript to the LaserWriter Pro (via
   LaserWriter Utility 7.4.1) to change the default paper tray:

This is PostScript Level 1 code:

%============================================================
% Begin PostScript Code
%
serverdict begin 0 exitserver
statusdict begin 1 setdefaultpapertray end
```

```
%
% End PostScript Code
%===========================================================
```

   Note: Whenever the PostScript code "serverdict begin 0 exitserver" is
   downloaded to the LaserWriter, any commands that follow will automatically
   place the results in the printer's non-volatile RAM (NVRAM), meaning that
   the printer will retain the settings even when powered off.

   The integer value before "setdefaultpapertray" corresponds to the
   various trays as follows:

Value	Tray Selection
0	250 Sheet Cassette
1	Multi-purpose tray
2	500 Sheet Cassette
3	Envelope tray

This is the equivalent PostScript Level 2 code:

```
%===========================================================
% Begin PostScript Code
%
serverdict begin 0 exitserver
1 dict dup /InputAttributes 1 dict dup /Priority [2 1 0] put put setpagedevice
%
% End PostScript Code
%===========================================================
```

This sets the paper tray priority to:
1st Priority - Cassette (500 Sheets) - designated by the "2" in the array
above.
2nd Priority - Multipurpose Tray - designated by the "1" in the array above.
3rd Priority - Cassette (250 Sheets) - designated by the "0" in the array
above.

You can change the paper tray priority order by changing the values in
"/Priority [2 1 0]".
For example, /Priority [0 1 2] makes the 250 sheet cassette first priority,
then the Multipurpose tray next, then the 500 sheet cassette.

3) Enable TraySwitching via LaserWriter Utility 7.4.1.

   Note: Enabling this option through the Print dialog box will only affect
   the current job. Enabling TraySwitching via the LaserWriter Utility will
   save the selection for all jobs and will retain the setting even when the
   printer is powered off.

4) Use AutoSelect when printing.

With LaserWriter II engines, the manual feed slot for paper shares the same

paper pickup roller as the paper cassette. That is why the printer feeds from the cassette when there is no paper in the manual feed slot. The LaserWriter Pro 630 has a separate pickup roller for the multipurpose/manual feed tray.

Article Change History:
14 Apr 1997 - Added PostScript Level 2 code.
05 Aug 1993 - Added notes about non-volatile printer settings and about
                TraySwitching.

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