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LaserWriter 16/600 PS: Supports HPGL/2 Through PCL5 (11/95)

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TOPIC				

We have a Power Macintosh 6100/66 DOS Compatible Macintosh and are trying to print to a LaserWriter 16/600 PS. The application we are using is DOS-based, and outputs HPGL. I've heard that the LaserWriter 16/600 PS printer supports HPGL/2, but I'm unable to get any output when I send HPGL to the printer. What's wrong? Also, is HPGL/2 backward compatible with the original HPGL language?

DISCUSSION -----

The LaserWriter 16/600 PS does support the HPGL printing language. This Support for HPGL is provided though the PCL5 emulation, which inherently has HPGL/2 support. Tests on our LaserWriter 16/600 PS using HPGL/2 were successfully. Your problem is likely with the initial escape sequences used by the MS-DOS-based program to set the printer into HPGL/2 mode, or in the HPGL/2 drawing commands themselves.

The problem you are seeing is not related to the DOS Compatibility Card or the LaserWriter 16/600 PS printer since:

- Print jobs from the MS-DOS environment are sent without modification of the output. All of the output data is sent directly to the printer.
- ${\tt HPGL/2}$ data we downloaded to the LaserWriter 16/600 PS prints without problem.

Depending on which input port, and mode it is set to: PCL, or PostScript, of the LaserWriter 16/600 PS you are using, you may need to send a line of PostScript code to the printer prior to all HPGL/2 and PCL5 print jobs. The following command places the PostScript interpreter into PCL5 mode:

Once the printer is placed into the PCL5 emulation, you need to use the

following escape sequence to place the printer into the HPGL/2 mode:

To go from PCL5 to HPGL/2: <esc>%#B

To return from PCL5 from HPGL/2: <esc>%#A

HPGL/2 Compatibility

Regarding the question about backward compatibility of HPGL/2 with the original HPGL language, we contacted Hewlett-Packard technical support and they cited only the following differences:

MISSING HPGL/2 COMMANDS

The HP LaserJet III, IIID, 4, 4Si, 4L, and 4P printers do not have every command that is available in HPGL or HPGL/2. The following is a list of some of the known commands that are not available with the printers mentioned.

• XT and YT (X-Tick and Y-Tick)

This command allows plotters to automatically print an x and y axis on printed plots. This command is a HPGL command and is not found in HPGL/2.

• RP (Replot)

This command allows a plotter to automatically recreate a plot without having to send new data to the plotter. When using the HP LaserJet III and 4, family printers, the only method of obtaining multiple plots is to send the copy command before entering HPGL/2 followed by the exit HPGL/2 command at the end of the file.

• PG (Page Advance)

This command tells the plotter to eject a plot. This was disabled on the HP LaserJet III and 4 printers so PCL and HPGL/2 could be mixed on the same page without any page eject problems.

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