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LaserWriter 16/600 PS: Using FAX Card From UNIX (10/95)

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TOPIC -----

We have a LaserWriter 16/600 PS printer with FAX card. We're very pleased with the unit because we can print and FAX from the Macintosh computers, but we can only print from UNIX workstations. We would also like to send FAX documents from the UNIX workstations, but have not been able to. We have done considerable analysis, including putting a sniffer on the network to see what the raw postscript looks like from a Macintosh. It appears to be a normal postscript file with the postscript preamble directing the output to either printer, or FAX. Other than this everything works fine.

The packet analysis of FAX documents from the Macintosh leads us to believe a solution lies in the postscript preamble. We have tried duplicating the postscript preamble that the Macintosh uses for FAXing documents on a UNIX workstation without success, and we think our problem lies in formatting. Since the printer provides no error feed back, we cannot discern what is happening.

What we need is an example document that shows us how a postscript file accesses the FAX card on the LaserWriter 16/600 PS. We have the expertise to do the rest.

DISCUSSION -----

Your assumptions are correct. A postscript job sent to a FAX capable device will be processed as a FAX if certain information is at the top of the job.

CAUTION: If you choose to use the PostScript code provided in this article, you assume all risks involved in making these changes. PostScript code, if not entered correctly, can place the LaserWriter into a condition requiring service.

You need to add postscript that will direct the job to the FAX card and provide a number to dial as shown below.

```
---begin Postscrip code
```

```
%%BeginSetup
```

```
%%BeginFaxInvocation
<< /OutputDevice /Fax
  /FaxOptions << /DialCallee (number of receiving fax)
  >> % FaxOptions dict
>> setpagedevice
%%EndFaxInvocation
%%EndSetup
```

---end Postscript code

Postscript FAXing supports numerous other fields that may contain cover sheet and job control information. Here is a sample text file that demonstrates where to insert the FAX code and includes enough optional information for a normal cover sheet.

---begin file

```
%%!PS-Adobe-3.1
%%Requirements: fax
%%EndComments
%%EndProlog
```

```
%%BeginSetup
%%BeginFaxInvocation
<< /OutputDevice /Fax
  /FaxOptions << /DialCallee (number of receiving fax)
  /SenderName (whoever sent fax)
  /SenderPhone (the senders voice number)
  /RecipientName (whoever receives fax)
  /RecipientPhone (the recipient's voice number)
  >> % FaxOptions dict
>> setpagedevice
%%EndFaxInvocation
%%EndSetup
```

```
%%Page: 1 1
3 setlinewidth
72 700 35 35 rectstroke
1 setlinewidth
72 700 -36 18 rectstroke
2 setlinewidth
54 700 45 -18 rectstroke
```

```
/Helvetica 12 selectfont
67 686 moveto
(test) show
```

```
/Times-Bold 20 selectfont
116 700 moveto
(this is a test.) show
```

showpage

%%Trailer
%%EOF

---end file

You can edit the text between the parenthesis to change the dialing information.
For complete documentation, you should get Technical Note #5135 "Supporting
Postscript Fax" from Adobe Developer Support.

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