



Tech Info Library

CLW 12/600 PS & CLW12/660 PS: Configuring For Solaris (10/96)

Revised: 10/23/96
Security: Everyone

CLW 12/600 PS & CLW12/660 PS: Configuring For Solaris (10/96)

=====
Article Created: 10 January 1996
Article Reviewed/Updated: 21 August 1996

TOPIC -----

This article provides information on configuring the Apple Color LaserWriter 12/600 PS and Color LaserWriter 12/660 PS printers to a Solaris workstation.

DISCUSSION -----

Overview of Solaris Printing
=====

Solaris 2.3, 2.4 and 2.5 printing use lp printing available with UNIX System 5. Solaris includes two utilities that add BSD features to the lp printing system.

- lpsystem - register remote systems with the print service.
This utility supports System V network printing and provides compatability with BSD network printing (lpd)

- lpr - send job to the printer.
This utility is actually version of lp that supports lpr flags, for backwards compatability to SunOS 4.x

The following instructions are provided for Solaris (SunOS 5.x) system administrators. SunOS 4.x (sometimes called Solaris 1.x) are in the Color LaserWriter 12/600 PS manual. SunOS 4.x is a version of BSD UNIX and uses lpr for printing.

Before configuring the Solaris system, the Color LaserWriter 12/600 PS needs to be installed on the Ethernet network and assigned an IP address. See your Color LaserWriter 12/600 PS User's Guide for detailed instructions.

Apple Computer supports printing only from Solaris 2.x over ethernet using TCP/IP and lp to the Color LaserWriter 12/600 PS printer. Alternative forms of printing with other protocols, such as PAP in Appletalk, or physical connections

such as direct parallel connections are possible, but not supported by Apple Computer Inc.

Steps for Solaris:

=====

Step 1

Login as root

Step 2

Run admintool

Step 3

Select "print manager"

Step 4

From the "Edit" Menu select "Add Printer"

Step 5

Select "Add access to remote printer"

Step 6

Set the "Printer Name"

The printer name is the name of the printer queue referred to in lp command. For example, if you create a printer queue called "colorlw", you would print with the using the following:

```
lp -d colorlw <filename>
```

Step 7

Set the "Printer Server"

Use the hostname or IP address of the printer. The hostname should be entered in the /etc/hosts file, NIS database or DNS.

Step 8

Verify or change "Print Server OS" to "BSD"

Click "add" when done. The new printer appears in the Print manager window.

Step 9

Change the file contents to PostScript.

Select "edit" -> "modify" -> "name of printer"

Change the "file contents" to "PostScript" and click apply. The default is "any"

Click "apply" to save changes.

Setting the "file contents to PostScript" allows all files to print to the Color Laserwriter correctly. Without making this change, text jobs sent to the printer using lp and lpr will not print.

Printing from Specific Applications

=====

The Color LaserWriter 12/600 PS and Color LaserWriter 12/660 PS printers accept only PostScript print jobs. If configured properly, Solaris converts text jobs to a basic PostScript job that results in plain, portrait, courier text output.

- Printtool: Openwindows tool for printing files

Printtool creates PostScript jobs and will work normally. Users can type in path names or use drag and drop icons from the file manager to the icon well. The default format will product 2-UP landscape output that has been "prettied" in the mp utility.

- MAE: The virtual Macintosh

MAE produces PostScript using lprwriter. Set lprwriter to "lp -d <printer queue name>" If AppleTalk is supported on the Ethernet, MAE users can use LaserWriter driver and print using AppleTalk as well. MAE users can load the Color LaserWriter Software into MAE, but should be aware that ColorSync 2.0 will NOT cailibrate color when printing using lprwriter. MAE users MUST use the Laserwriter 8.3 driver and print using AppleTalk.

- lp - send requests to an LP print service

lp is the standard line command used for printing files in System V UNIX.

For example:

```
lp -d colorlw <filename>
```

- lpr - send job to the printer

Although Solaris is System V, an lpr utility is provided. The lpr command is a front end to lp and is not a normal version of lpr. However the differences should not affect the use of the Color LaserWriter 12/600 PS printer.

Example print command:

```
lpr -P colorlw <filename>
```

For more information on configuring printing in Solaris, you should consult the Solaris documentation that came with your workstation. For more information on UNIX printing in general, you should consult a UNIX system administration book such as the "UNIX System Administration Handbook" by Evi Nemeth, Garth Snyder, Scott Seebastian, Trent R. Hein.

Article Change History:

23 Oct 1996 - Added Color LaserWriter 12/660 PS printer.

21 Aug 1996 - Removed unnecessary steps.

Copyright 1996, Apple Computer, Inc.

Tech Info Library Article Number:19201