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A/UX: Using A/UX as a Print Spooler (8/94)

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TOPIC -----

I'm running A/UX on an Macintosh IIfx. I'm using "lpr" to print to a LocalTalk LaserWriter. I also have HP/Apollo workstations on the same Ethernet. I want to print to the LaserWriter from the HP. My file goes to the A/UX spool folder, but needs to be printed by A/UX. How do I print directly to the LaserWriter from another IP node?

DISCUSSION -----

For the HP (or any other IP node) to print to a LaserWriter connected to the A/UX box, you have to edit the /etc/printcap file of the remote system to reflect the A/UX system. It should have an entry like this:

```
remote:\
    :lp=:\
    :rm=a/ux.hostname:\
    :rp=lp:\
    :sd=/usr/spool/remote:
```

The above entry brakes down as:

Line 1: Name by which the HP calls the A/UX system's printer

Line 2: Local printer designation

Line 3: Remote host name. This must also be in the host config file (/etc/hosts or equiv)

Line 4: Name of printer on the A/UX system. By default, this will be lp for a Chooser selected printer.

Line 5: Spool directory. This is a directory where remote print jobs will be spooled. Instructions on how to set this up follow.

To create the spool directory, do this:

```
(1) mkdir /usr/spool/remote
    chmod 755 /usr/spool/remote
```

```
chgrp daemon /usr/spool/remote
chown daemon /usr/spool/remote
CD /usr/spool/remote
mknod pipe p
chmod 660 pipe
```

(2) Next, verify the /etc/hosts file on the HP that contains an entry which allows access to the A/UX system. It should look like:

```
134.66.20.45    aux_hostname  aux_hostname.domain.com
```

The first entry is the IP address of the A/UX system. The second entry is the hostname of the A/UX system, and the final entry is the hostname and domainname of the A/UX system (optional if domain name servers are not being used).

(3) Finally, you must tell the A/UX system that it can accept print requests from the HP system. To do so, edit the /etc/hosts file on the A/UX system so that there is an entry for the HP. The format will be as shown above.

Next, add the HP's hostname to the /etc/hosts.lpd file on the A/UX system. If the A/UX box has not yet been set up for remote printing access, the /etc/hosts.lpd file will not yet exist. Create it and enter the HP hostname.

Now to invoke remote printing on the LaserWriter from the HP, use the lpr command as follows:

```
lpr -Premote filename_to_be_printed
```

Also, the newly created pipe in /usr/spool/remote MUST be owned and grouped by "daemon", otherwise, it won't be opened by the spooler.

```
chown daemon pipe; chgrp daemon pipe
```

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- 23 Aug 1994 - Reviewed and updated.
- 30 Aug 1992 - REVIEWED for technical accuracy.

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