



# Tech Info Library

## Problem with A/UX lpr Queue (11/93)

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TOPIC -----

Under A/UX 3.0.2, I did the following:

"lpr -PLP1 /spoolin/long" and got error message " lpr: /spoolin/long: copy file is too large". How can I fix this? I need to spool files bigger than 800K, and that seems to be a limit set in A/UX somewhere? Has this got to do with ulimit?

DISCUSSION -----

The problem you are seeing is not caused by ulimit. The lpr spooling system has a default maximum "copy size" of 1000 blocks. This is the largest file size it can print.

This can be increased by modifying the /etc/printcap file. All that is needed is to add a field to the entry for the queue where the large print jobs will be printed.

The field to be added is "mx". If the value of "mx" is set to 0 (zero), then it sets the size to unlimited.

For example,

```
lp|at|AppleTalk|postscript|PostScript:\
    :mx=0:\
    :lp=/dev/null:\
    :if=/usr/spool/lpd/AppleTalk/ifilter:\
    :of=/usr/spool/lpd/AppleTalk/ofilter:\
    :nf=/usr/spool/lpd/AppleTalk/nfilter:\
    :sd=/usr/spool/lpd/AppleTalk:
```

Please note that the second line says

```
:mx=0:\
```

The lpr system will create temporary files before sending them to the printer, if you set the value of "mx" to 0 (zero), you could run out of disk space on the volume where the spool directory is located.

There are a couple of options to prevent this from happening.

One option is to create the file "minfree" in each spool directory for a queue set as unlimited.

The file minfree in each spool directory contains the number of disk blocks to leave free so that the line printer queue won't completely fill the disk. You can edit the minfree file with your favorite text editor.

The file should only contain one line with the number of blocks, for example:

```
5000
```

What this will do is prevent the lpr spool system from creating temporary files if the disk had less than 5000 blocks free.

The other option is to use the "-s" flag of the lpr command. This flag causes symbolic links to be created in the spooler directories instead of copies of the files to be printed. By creating the symbolic links, this option conserves the file-system space available.

```
$ lpr -s -PLP1 ...
```

For more information consult the A/UX manual page for lpr(1).  
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