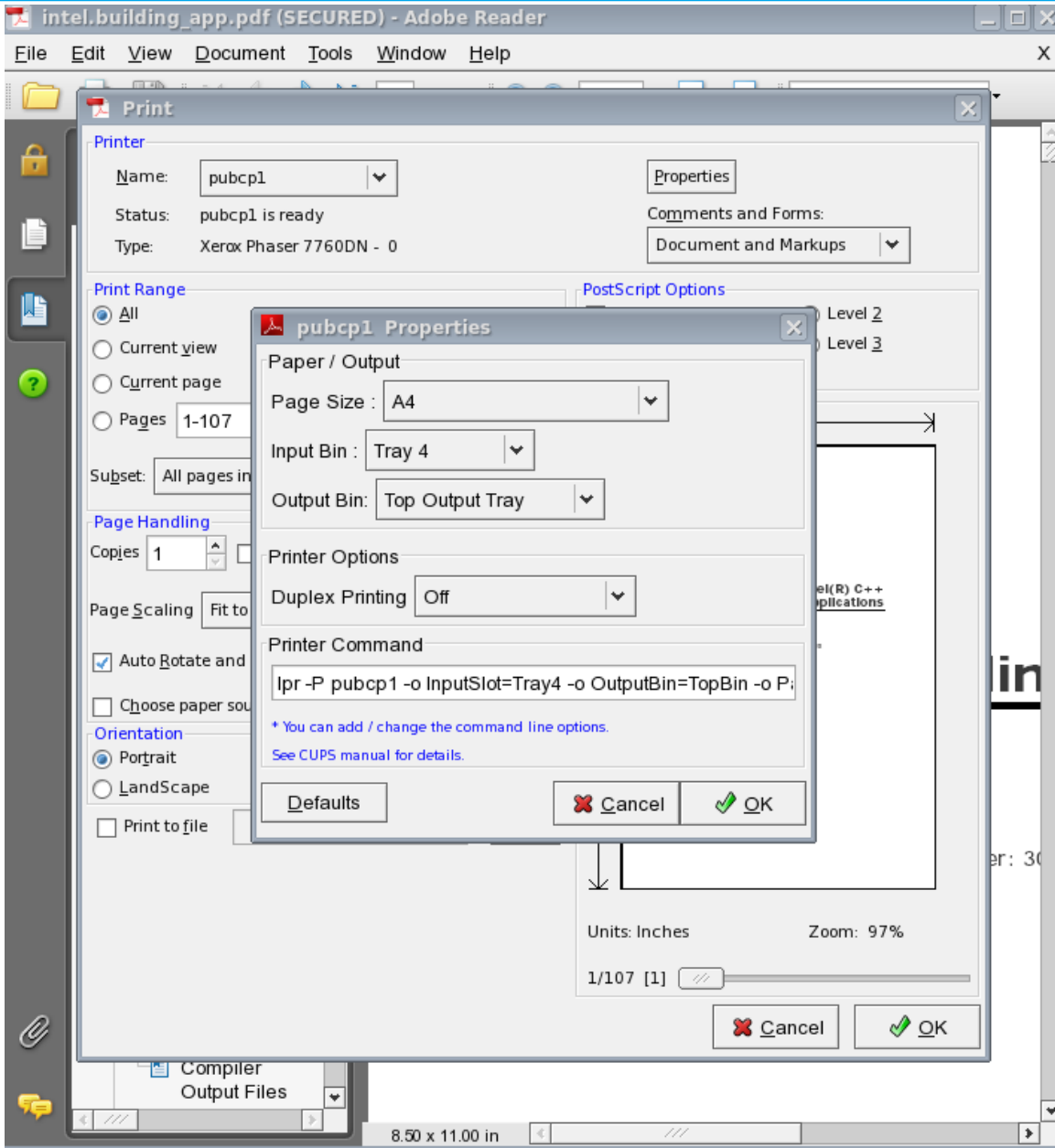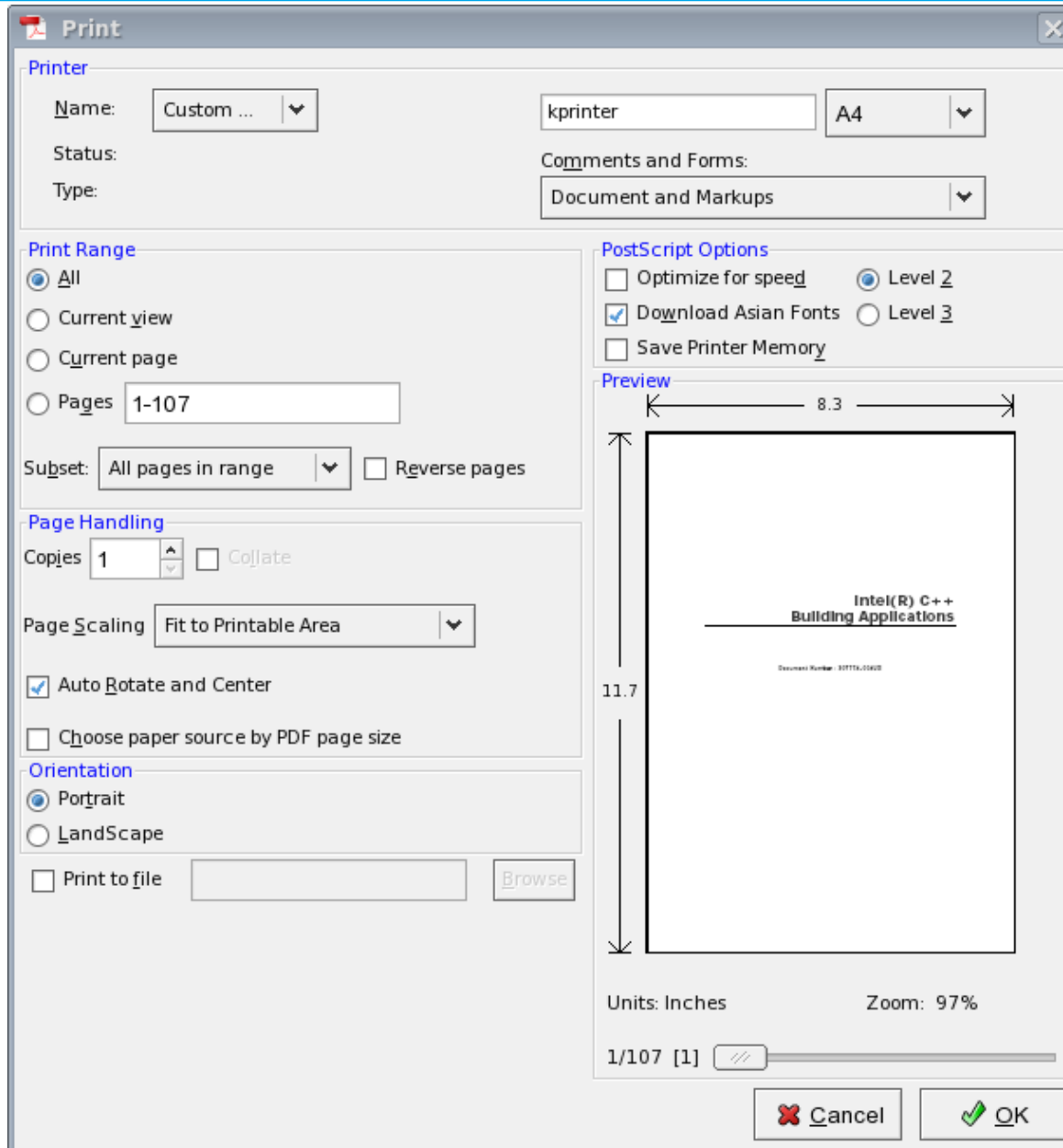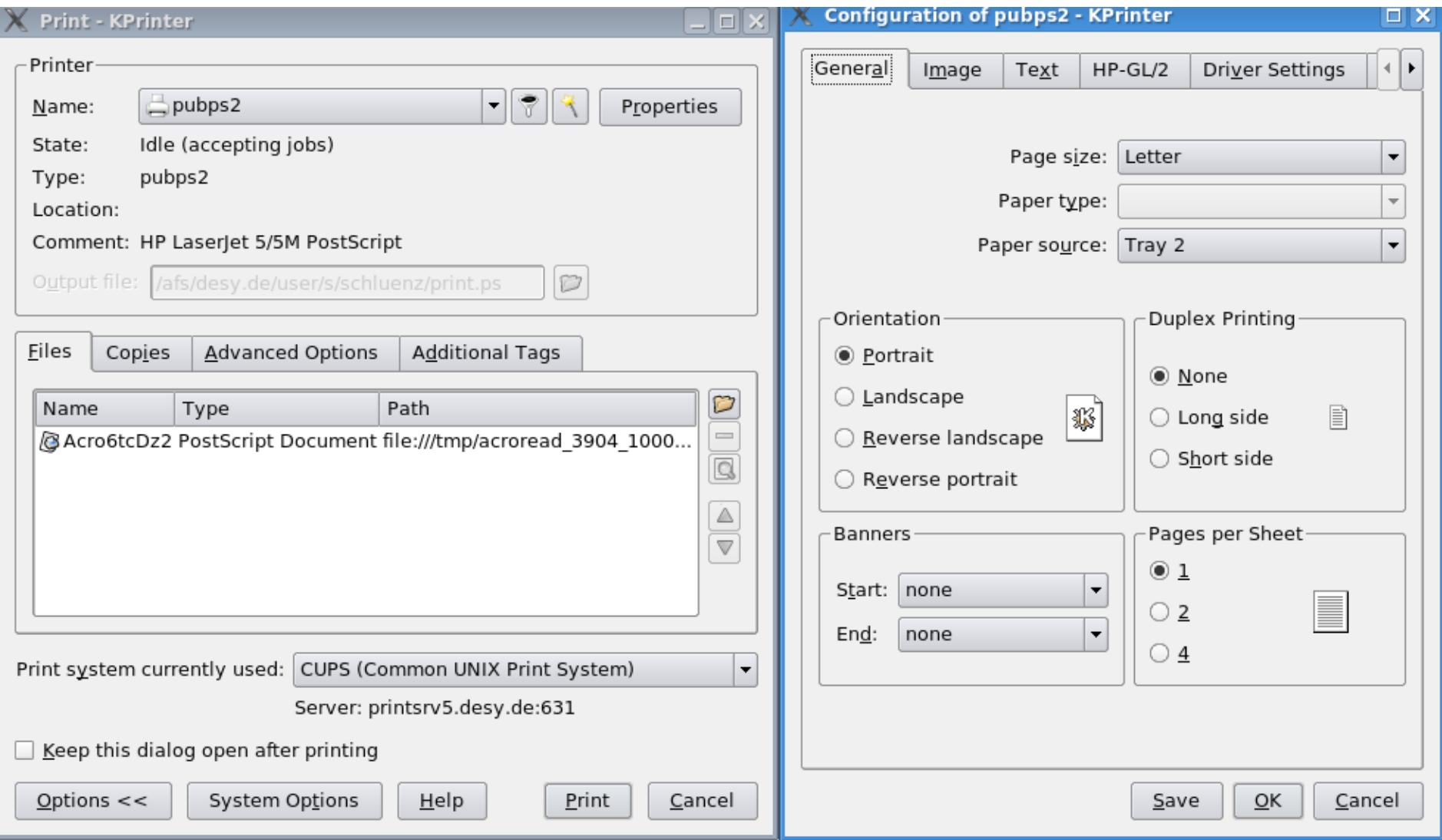from a users point of view ...

- GTK print backend
- recognizes printer features
- command line options

- forgets the settings

- Firefox / OpenOffice similar
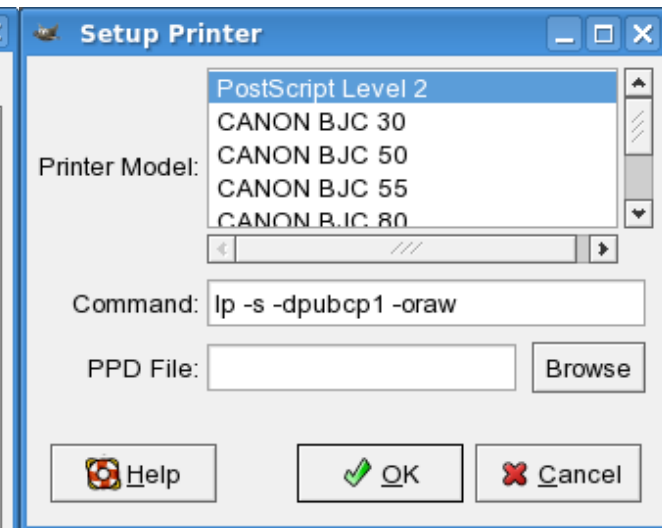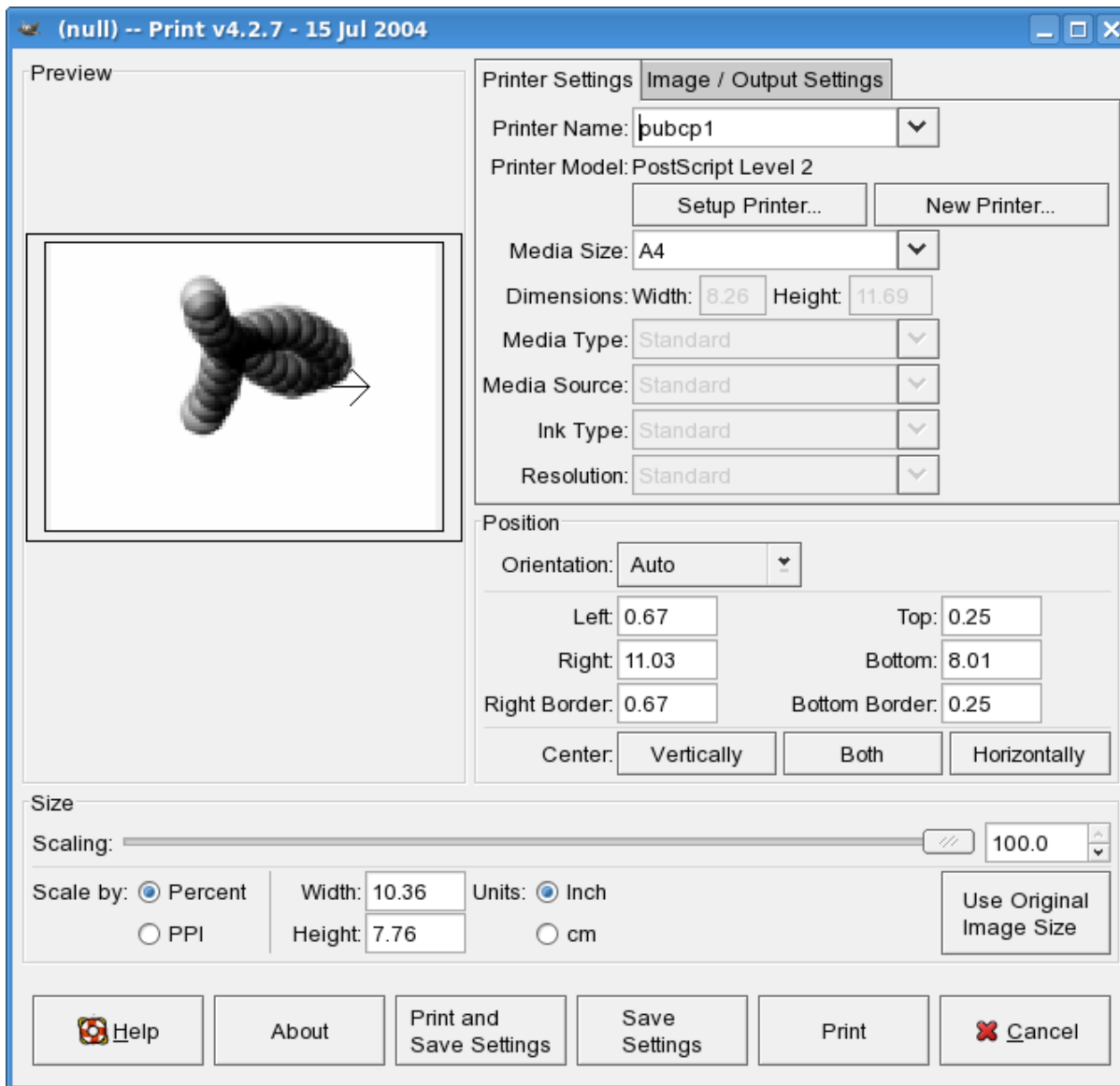
CUPS – Applications - kprinter

- can use kprinter as printer gui
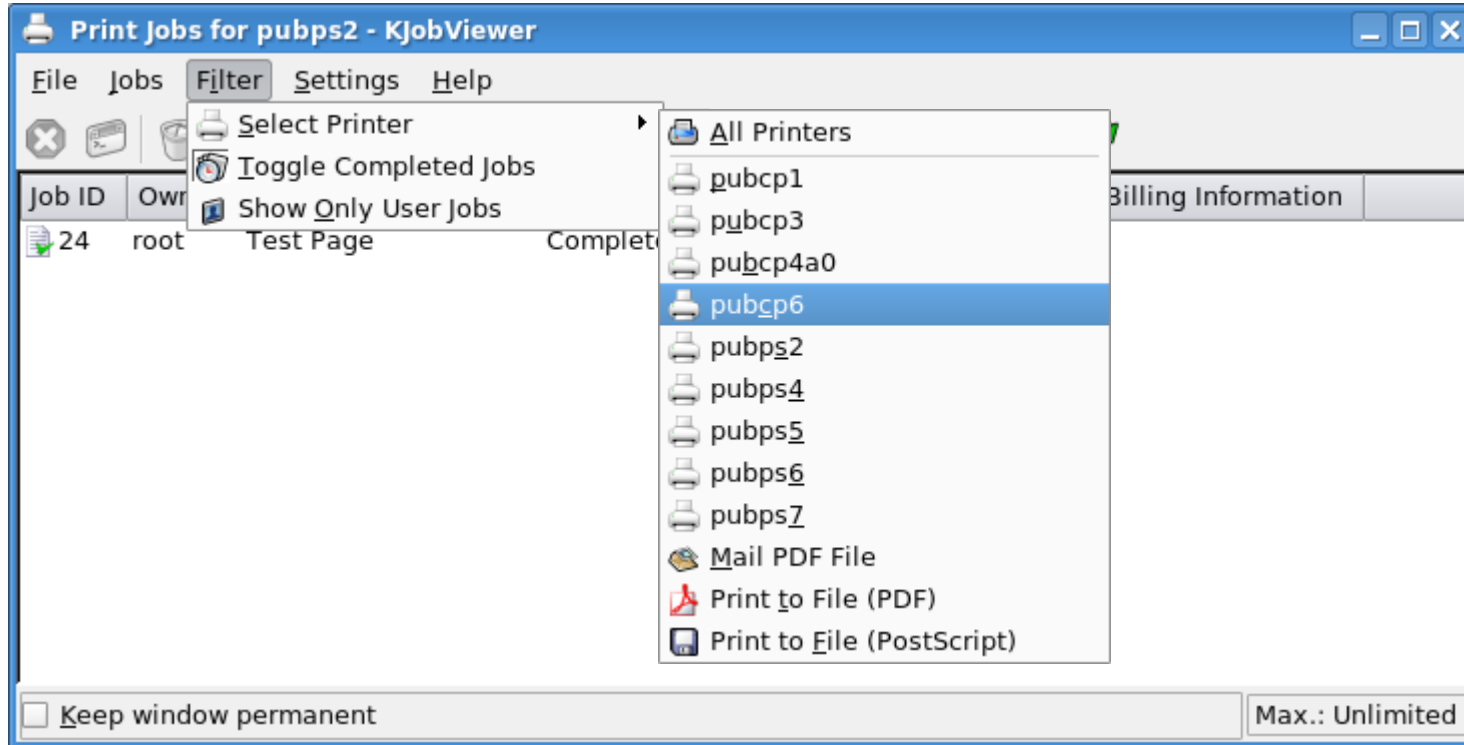
CUPS – Applications - kprinter

- easily set printer and printer options … works for most other applications as well

CUPS - Applications

- Gimp (and some others) are special

- Options
  - Command line
  - or use kprinter

CUPS – Administration

Print Jobs for pubps2 - KJobViewer

File   Jobs   Filter   Settings   Help

Select Printer   ▶   🖨 All Printers
Toggle Completed Jobs   🖨 pubcp1
Show Only User Jobs   🖨 pubcp3

Job ID	Own				Billing Information
24	root	Test Page	Complet		

                                       🖨 pubcp4a0
                                       🖨 pubcp6
                                       🖨 pubps2
                                       🖨 pubps4
                                       🖨 pubps5
                                       🖨 pubps6
                                       🖨 pubps7
                                       📧 Mail PDF File
                                       📄 Print to File (PDF)
                                       💾 Print to File (PostScript)

☐ Keep window permanent   Max.: Unlimited

- User can see jobs, hardly delete them
- won't work for huge number of printers

CUPS - Customization

Select Server via ~/.cups/client.conf:

```
    ServerName cups-hasylab
```

Most applications need a restart to recognize changes

Set printer options via lpoptions

```
    lpoptions -p pubcp1 -o Duplex=false        ← Printer options
    lpoptions -d pubps2                         ← Default printer
```
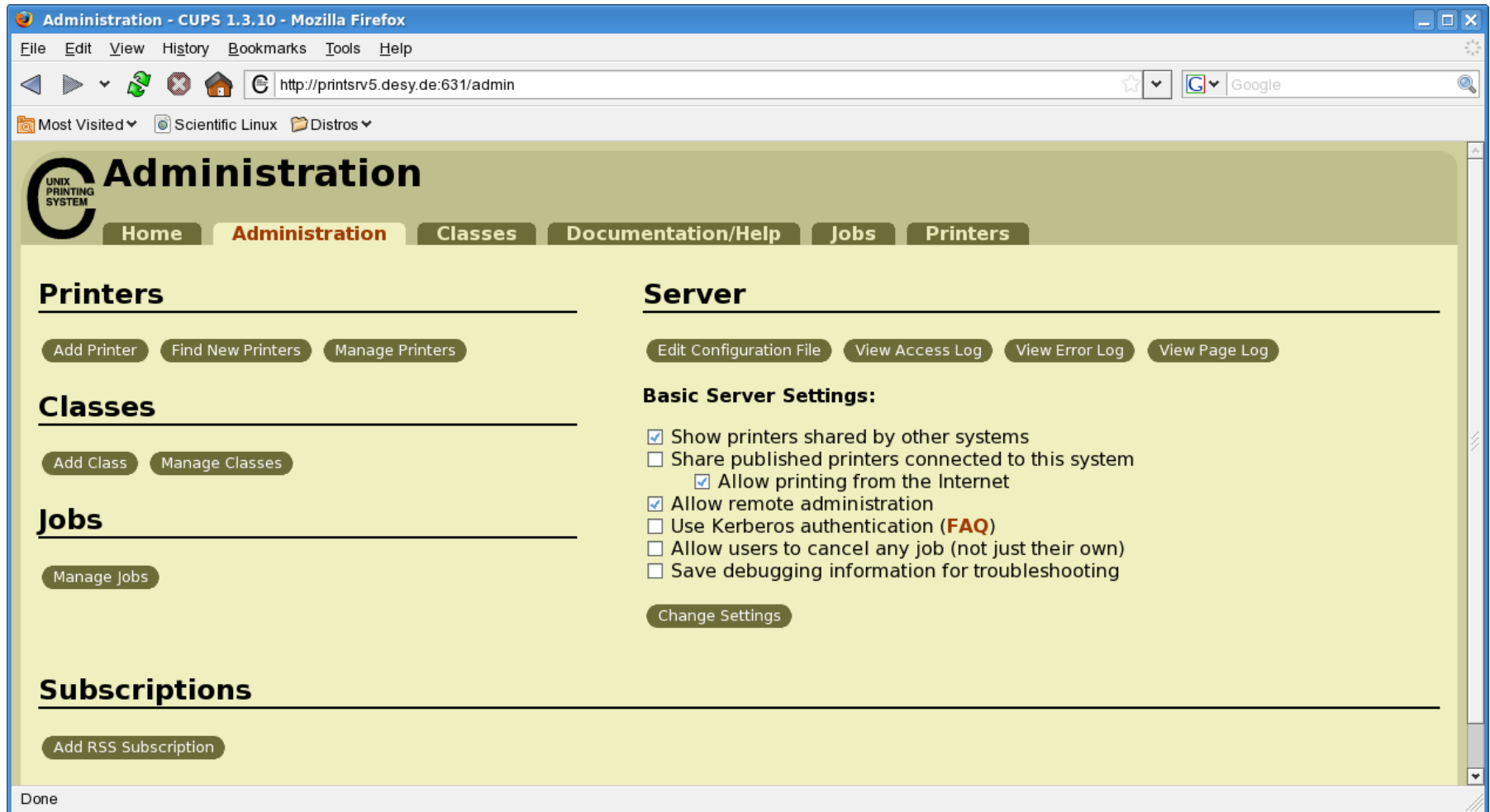
or edit .lpoptions (SL4) / .cups/lpoptions (SL5)

Show printer info via

```
    lpoptions -h cups-desy -p pubcp1 -l         ← Printer options
    lpstat -h cups-it -v                        ← Available printer
```

CUPS - Applications

- Individual Server for each group (+ generic server)
  - who administrates ?

CUPS - Applications
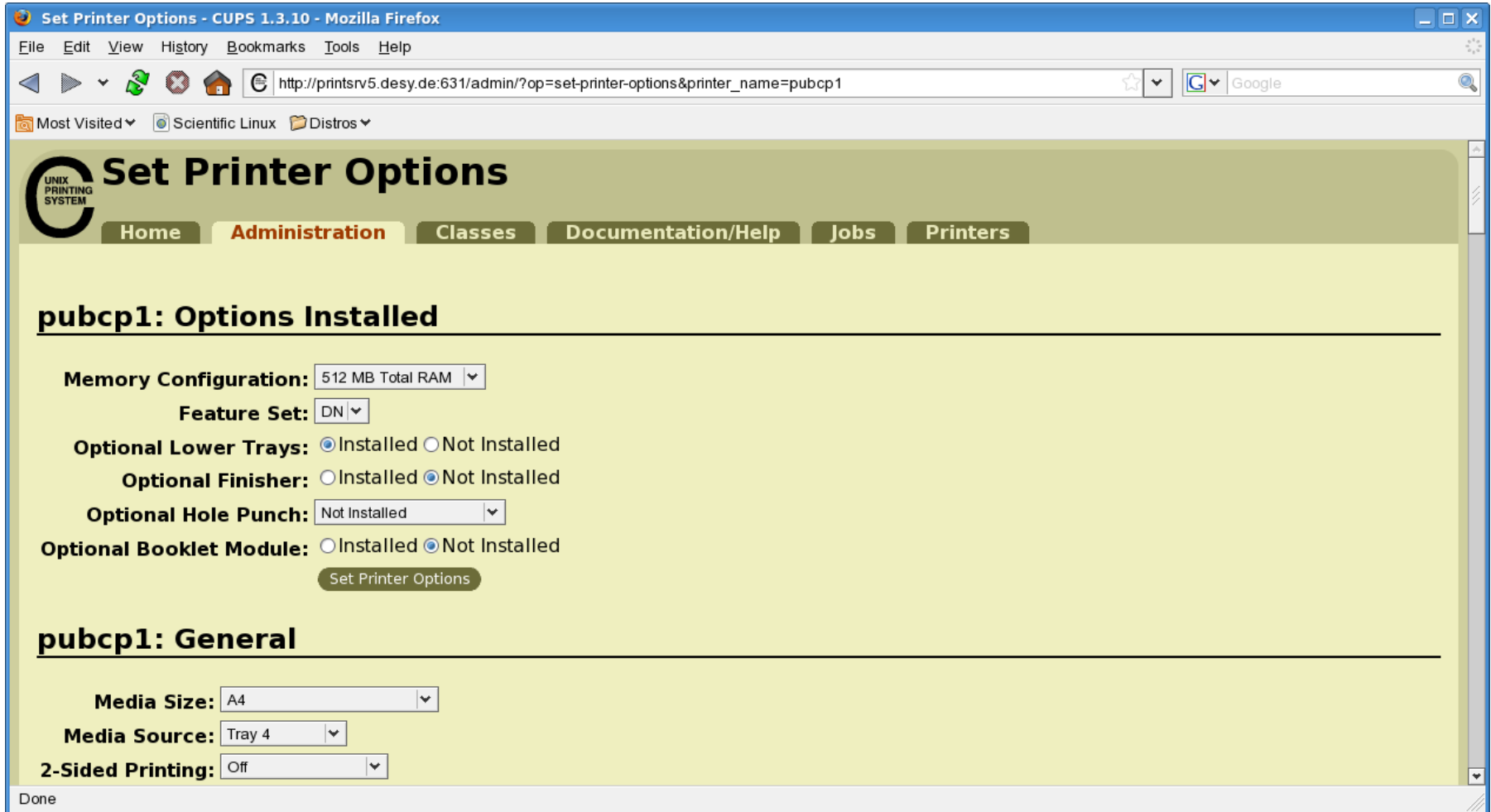
- Adding / Modifying printer rather easy
  - PPD's need to be local !?

CUPS - Applications

- Default setup for individual printer
  - Need sensible definitions → no printout (or duplex on transparencies)

CUPS – Problems – SL

- Restarting a cups server can take a while
  - Cups visits each printer to verify its status

- Printing Applications will freeze until the server is back up
  - Takes 10 minutes for the complete list

- Applications like firefox or acroread quest server for port and IP via DNS
  - Port mapping via F5 fails in such cases

BIG CUPS – Problems – SL4

- Setting server via ~/.cups/client.conf not possible

- Fails to handle large number of printers (1 connection per printer!)
  - Bad for the server (and other users)
  - **Very** slow

- Some applications don't recognize printer options

CUPS

- Still need to set PPD's / printer options properly

- File type recognition / filter possibly need adjustment

- Setting up different server not final

- no information about performance

- expect the cups server to be operational by ?????
  - announcement

- Start with new SL 5.3 installations / upgrades

- SL4 possibly never