

Canon Printer Driver for Linux

TORATANI Yasumasa
toratani.yasumasa at canon.co.jp

History

■ When Started?

- First Linux Printer Driver developed by Canon was released in Mar. 2001 (Ver.1.00)

■ Inkjet Printers as well as Laser Printers

- Laser Printer Driver Ver.1.00 released in Aug. 2003
- Cooperate with open source activities boosted by Japanese Agency

■ For Overseas Market

- Today, releasing from Europe, Australia sales companies for each region market
- Being study for the US market

Latest Printer Drivers

- **Color/Monochrome Laser Printers and Multifunctionals**
 - Ver.1.50 (Released on May 22nd, 2007)
 - Over 140 models Color and Monochrome imageRUNNER, imagePRESS, LaserBase and LaserShot series supported
 - PostScript, UFR II, CAPT, LIPS IV_(Japanese) and LIPS LX_(Japanese) models
 - “x86” as well as “x86_64” supported
 - Both “rpm” and “deb” packages released

- **Photo Inkjet Printers and Multifunctionals**
 - Ver.2.70 (Released on Apr. 26th, 2007)
 - Scanner driver Ver.1.00 for MFPs also released

- **Download Site**

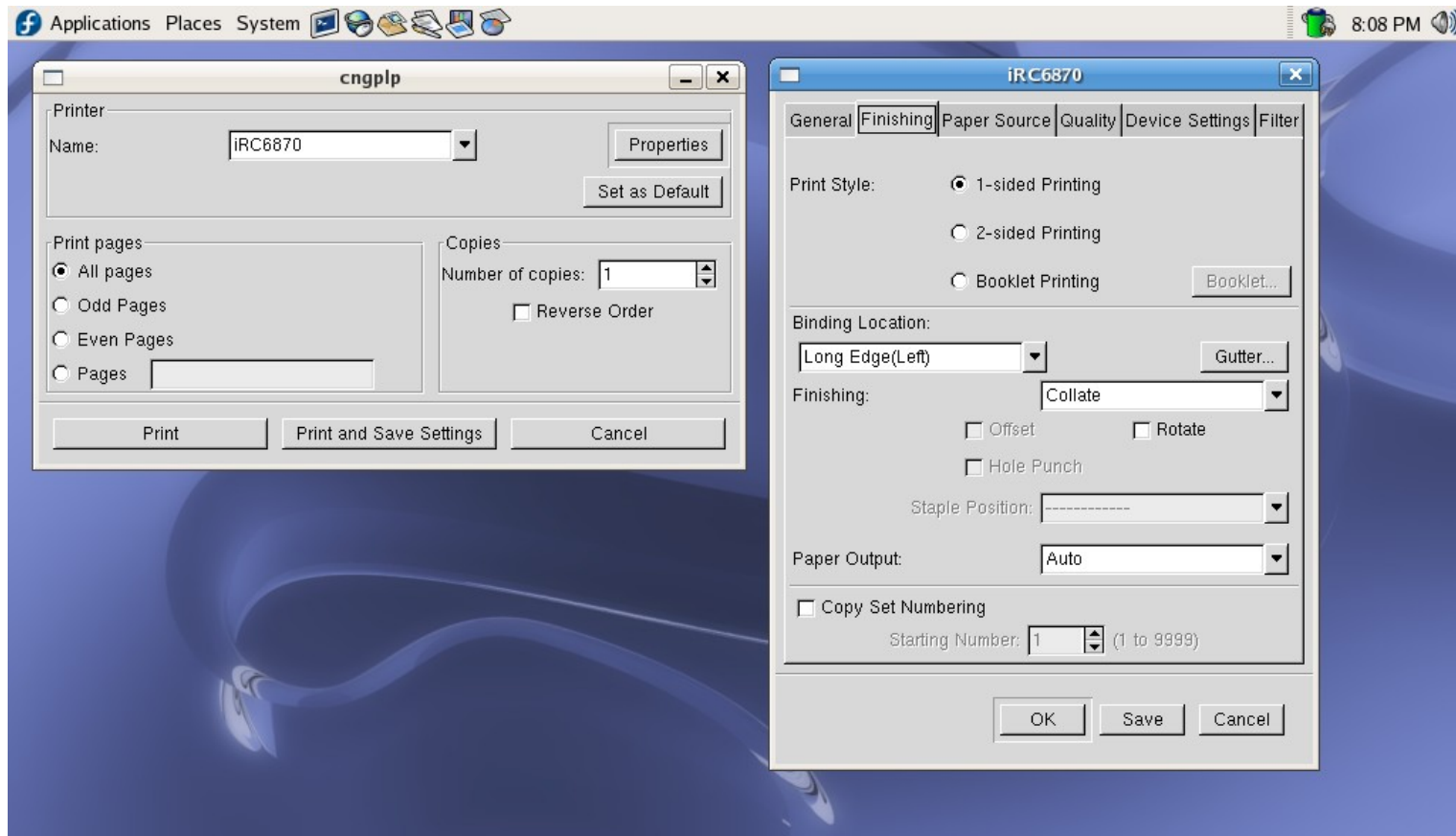
http://cweb.canon.jp/drv-upd/lasershot/drv_linux.html

<http://www.canon.com.au/drivers/index.html>

<http://software.canon-europe.com/>

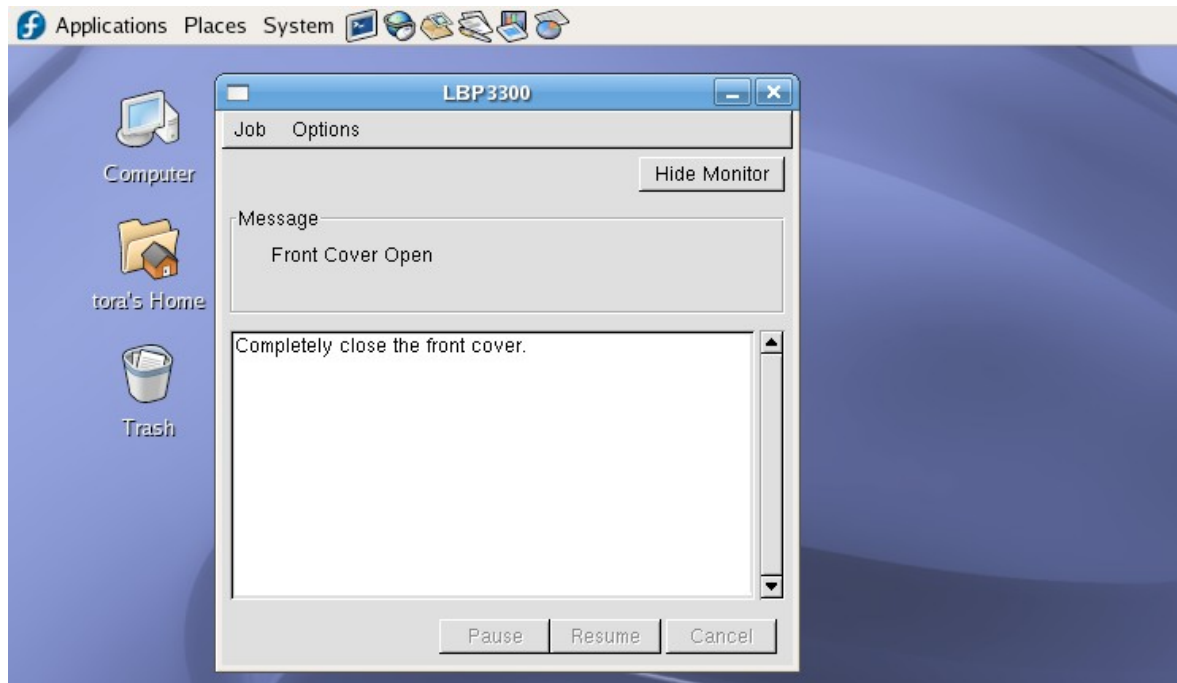
Printing Dialog for All Lasers

- Application which can set various printing attributes on its UI and save it for each laser printer
 - Command: `cngplp -p [document name]`
example) `$ cngplp -p tiger.ps`



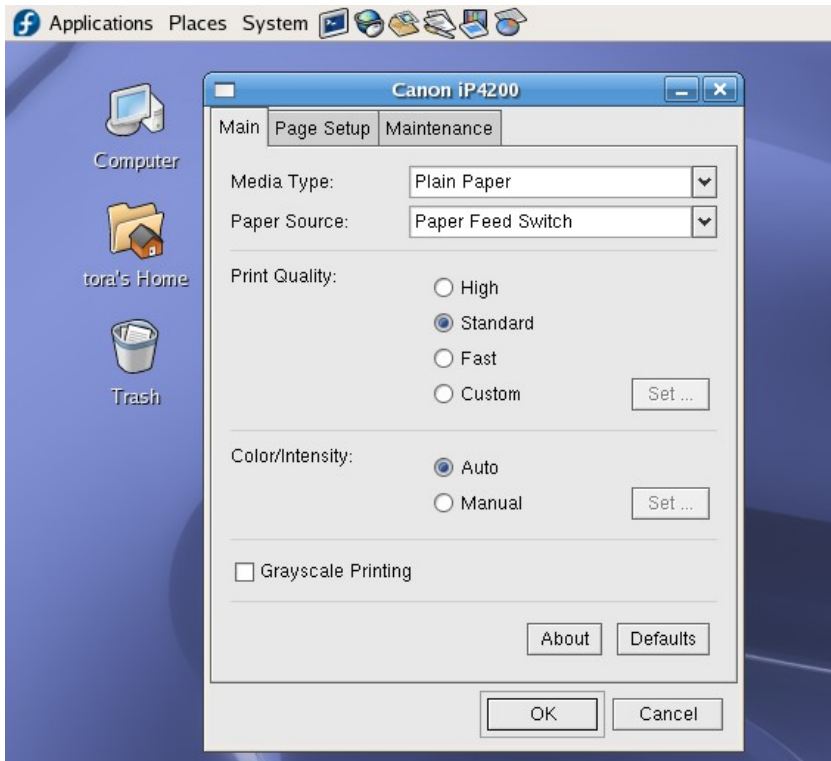
Status Utility for Small Laser

- Application which monitors laser printer status as well as;
 - Pause, Resume and Cancel printing jobs
 - Do cleaning, Set network configurations
 - Command: `captstatusui -P "printer queue name"`
example) `$ captstatusui -P LBP3300`

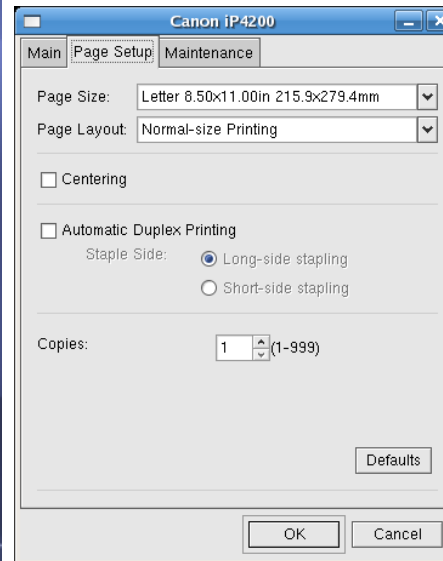


Printing Dialog for IJ

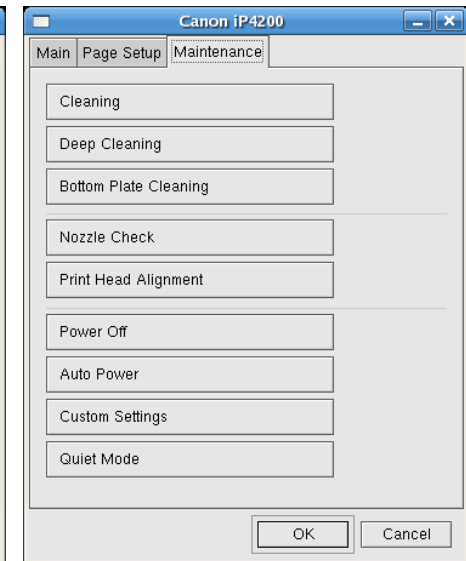
- Command: `cngpij -P [printer queue name] "document name"`
 example) `$ cngpij -P iP4200 tiger.ps`



Main Tab



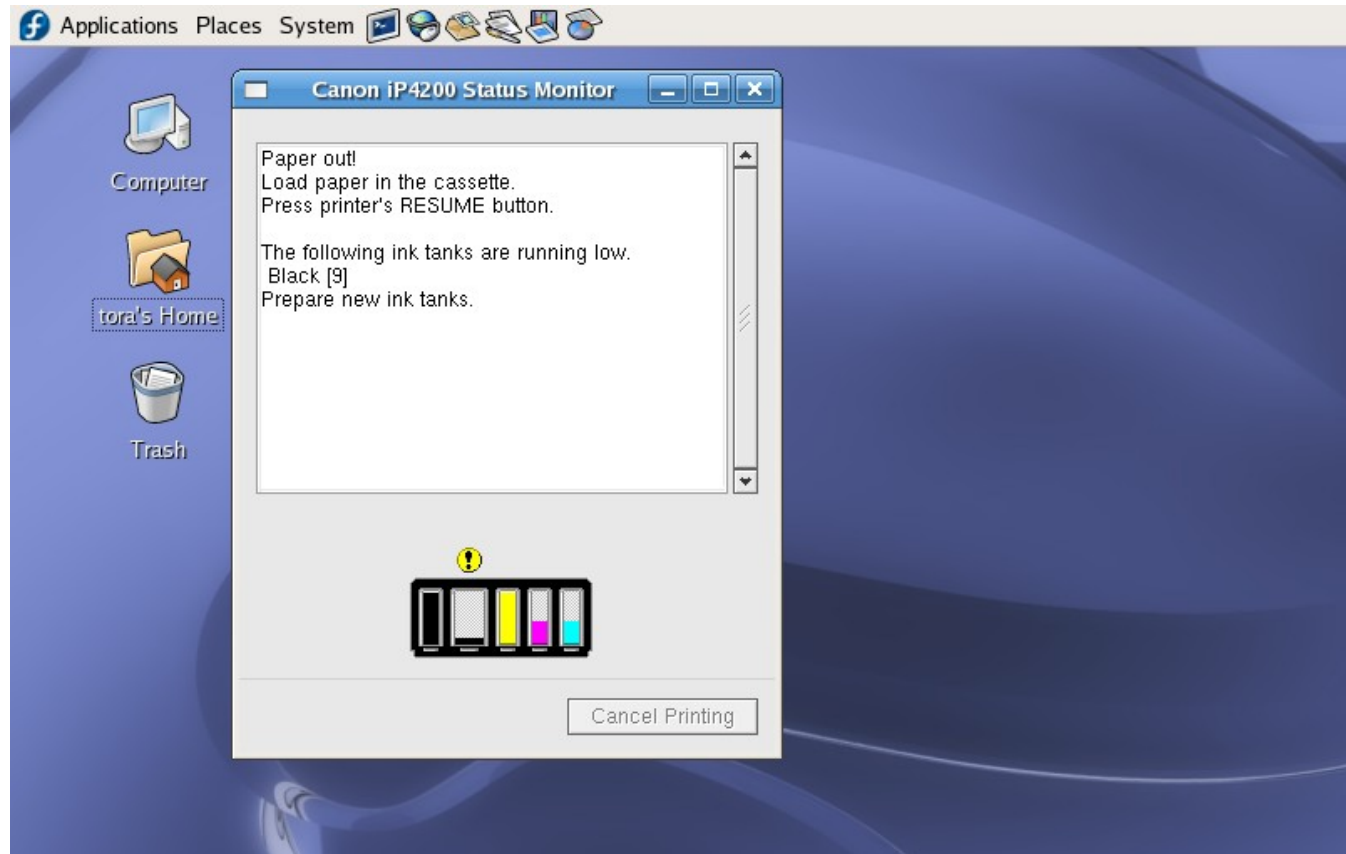
Page Setup Tab



Maintenance Tab

Status Utility for IJ

- Command: `cngpijmon [printer queue name]`
 example) `$ cngpijmon iP4200`



Users Manuals

- HTML based manuals which describes driver package installation, printing dialog usage, etc...

3. Printing Methods

Printing Using the Driver UI

When editing default settings and performing printing using the driver UI, use the `cngplp` command. For details about print settings from the driver UI, refer to "4. Print Settings from the Driver UI".

Specifying default settings: `$ cngplp`

This command enables you to set the various default printing attributes. They are effective until updated or reset.

Note

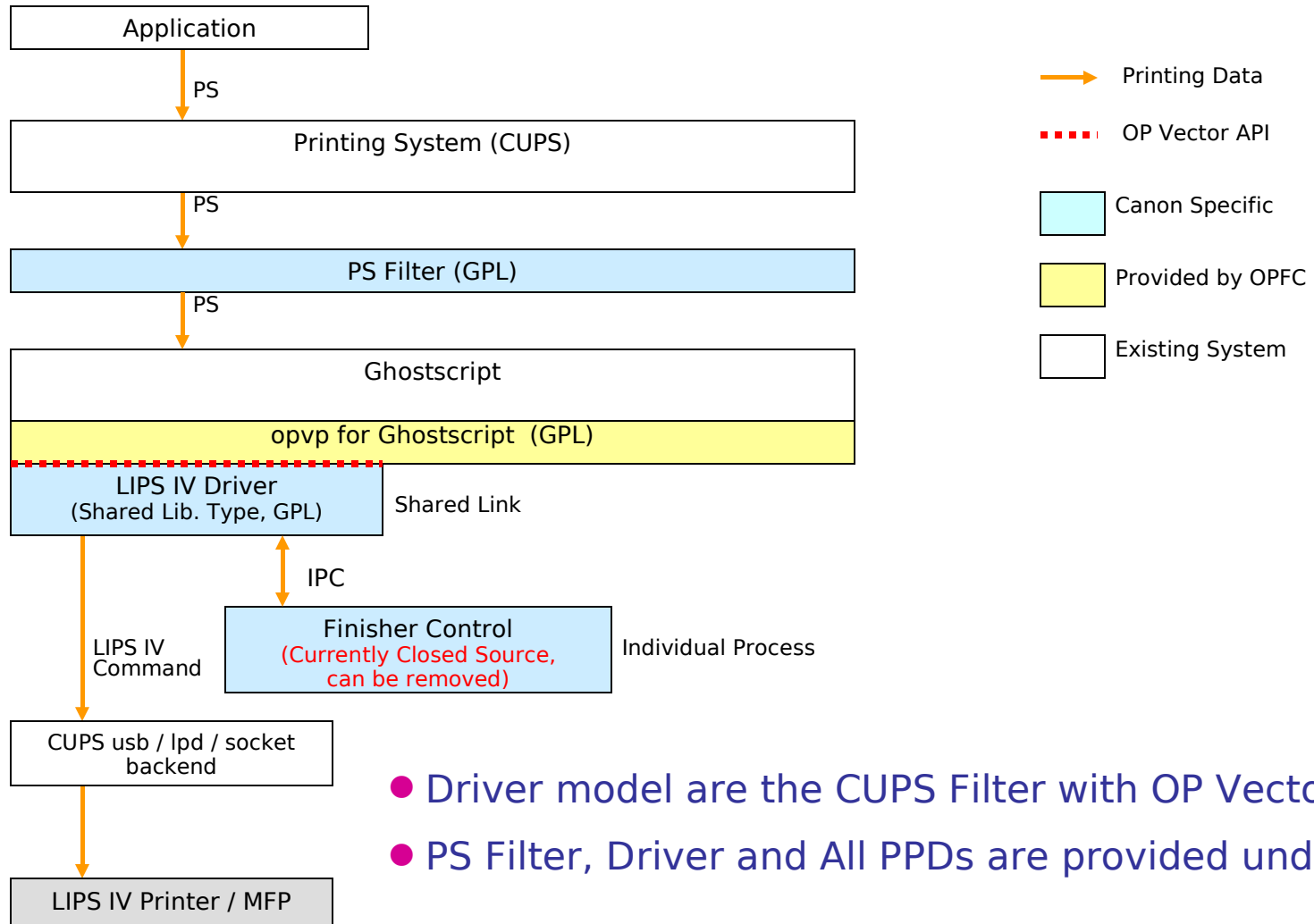
- Because this command executes only default print attribute settings, it uses only the [Save Settings] and [Cancel] buttons on the UI.

Printing Using the UI Settings: `$ cngplp -p [File Name]`

This command enables you to print a target file, specifying the various print settings.

Appendix: Printing Module Diagram

■ Canon LIPS IV Printer Driver with CUPS and GS



Acknowledgement

- **ESP Ghostscript and New Merger GPL Ghostscript**
 - Open Printing Project Japan members, including myself, would like to express our appreciation to the Ghostscript developer's cooperation to integrate the OP Vector Interface as “opvp” driver into ESP Ghostscript and the new merger GPL Ghostscript to achieve good printing performance by modularized drivers

- **Linux Projects and Vendors**
 - We appreciate major Japanese Linux distributors, Turbolinux, Vine Linux and MIRACLE Linux include the “opvp” driver in their Ghostscript in early stage of the “opvp” implementation
 - We also appreciate that several world wide Linux Projects and Vendors, Red Hat, Fedora, SUSE, Debian, Ubuntu include the Ghostscript with the “opvp” driver

- **Open Printing Project (Japan implementation group)**
 - Canon appreciates the members who are participating in the Open Printing Project to develop, improve and maintain the “opvp” driver, Ghostscript CJK code, CUPS pdf filters, etc.
<http://opfc.sourceforge.jp/index.html.en>

Our Concerns

■ Driver Testing and Validation

- Today's printer has various functions, for instance, support many media types, and large number of test cases based on every printing properties are needed for printer driver testing
- Only printer manufacturer knows and evaluates what is the "correct" printing for each test case, so, self-validation scheme for printer drivers is needed

■ Driver Distribution

- Center of the Linux driver that prepares several links to vendor's driver download site is preferable