

Data-Driven Printer Configuration

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Abstract

This whitepaper describes an effort to engineer a one-stop printer configuration system for free Unix.

2.2.1 CUPS

The Common Unix Printing System, from Mike Sweet, is an IPP-based spooler. It supports both a standard set of IPP options and printer-specific options as defined in PPD files. All printer queues are declared in

As is, CGI scripts provide a number of useful web-based interfaces to this data⁴. Users can easily:

1. Find a printer number from IEEE 1284 probe data.
2. Get a list of drivers, with comments on each, from a printer number.


```
'spot' => 'A',  
'order' => 100  
},  
'ProcessColorModel' => {  
  'val s_byname' => {  
    'RGB' => {
```

```
'idx' => 162,  
'driver_val' => 'CoatedPaper'  
,  
'transparency' => {
```

```

$VAR1->{'args_byname' }{' Bi tsPerPi xel ' }{' val s' }[3]
= $VAR1->{' args_byname' }{' Bi tsPerPi xel ' }{' val s_byname' }{' 1' };
$VAR1->{' args_byname' }{' Resol uti on' }{' val s' }[0]
= $VAR1->{' args_byname' }{' Resol uti on' }{' val s_byname' }{' 180' };
$VAR1->{' args_byname' }{' Resol uti on' }{' val s' }[1]
= $VAR1->{' args_byname' }{' Resol uti on' }{' val s_byname' }{' 360' };
$VAR1->{' args_byname' }{' Pri ntQual i ty' }{' val s' }[0]
= $VAR1->{' args_byname' }{' Pri ntQual i ty' }{' val s_byname' }{' Draft' };
$VAR1->{' args_byname' }{' Pri ntQual i ty' }{' val s' }[1]
= $VAR1->{' args_byname' }{' Pri ntQual i ty' }{' val s_byname' }{' Normal' };
$VAR1->{' args_byname' }{' Pri ntQual i ty' }{' val s' }[2]
= $VAR1->{' args_byname' }{' Pri ntQual i ty' }{' val s_byname' }{' Hi gh' };
$VAR1->{' args_byname' }{' ProcessCol orModel ' }{' val s' }[0]
= $VAR1->{' args_byname' }{' ProcessCol orModel ' }{' val s_byname' }{' CMYK' };
$VAR1->{' args_byname' }{' ProcessCol orModel ' }{' val s' }[1]
= $VAR1->{' args_byname' }{' ProcessCol orModel ' }{' val s_byname' }{' RGB' };
$VAR1->{' args_byname' }{' ProcessCol orModel ' }{' val s' }[2]
= $VAR1->{' args_byname' }{' ProcessCol orModel ' }{' val s_byname' }{' Greyscal e' };
$VAR1->{' args' }[0] = $VAR1->{' args_byname' }{' Resol uti on' };
$VAR1->{' args' }[1] = $VAR1->{' args_byname' }{' ProcessCol orModel ' };
$VAR1->{' args' }[2] = $VAR1->{' args_byname' }{' Bi tsPerPi xel ' };
$VAR1->{' args' }[3]{' val s' }[0]
= $VAR1->{' args' }[3]{' val s_byname' }{' pl ai n' };
$VAR1->{' args' }[3]{' val s' }[1]
= $VAR1->{' args' }[3]{' val s_byname' }{' coated' };
$VAR1->{' args' }[3]{' val s' }[2]
= $VAR1->{' args' }[3]{' val s_byname' }{' transparency' };
$VAR1->{' args' }[4] = $VAR1->{' args_byname' }{' Medi aType' };
$VAR1->{' args' }[5] = $VAR1->{' args_byname' }{' Pri ntQual i ty' };
$VAR1->{' args' }[6] = $VAR1->{' args_byname' }{' Ma8ual Feed' };

```


