prov-1.0 -- print overlay utilities
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Mail suggestions and bug reports for these programs to
m-ito@mbox.kyoto-inet.or.jp

What is prov ?

This is form overlay printing tool on UNIX-like systems.

prerequisite

You must be able to print postscript file.

Install

- o edit Makefile to set install directory to PROVDIR macro
  default install directory is ~/prov.
- o make
- o make install
- o edit ~/.profile to set install directory to PROVDIR environment variable.
- o edit ~/.profile to set ${PROVDIR}/bin to PATH environment variable.

Sample print(1)

```
prov -text mesh.ov README | lpr -Pps-printer
```

or

```
cat README | prov -text mesh.ov - | lpr -Pps-printer
```

above operation printout README(this document) overlayed
mesh.ov(mesh overlay definition) from ps-printer.

Sample print(2)

```
prov -csv table.ov member.def member.dat | lpr -Pps-printer
```

or

```
cat member.dat | prov -csv table.ov member.def - | lpr -Pps-printer
```

above operation printout member.dat(csv data file) formatted by
member.def(format definition) and overlayed table.ov(table overlay
definition) from ps-printer.

Adjust setting

==============

  You can adjust setting by editing ${PROVDIR}/etc/a4v.ps.

```
% start user definition
%-----------------------------------------------------------------
% < X unit length (point) >
%
% default is 72/10 point (=1/10 inch).
%
/SYS_Char {72.00 10 div} def
%
%-----------------------------------------------------------------
% < Y unit length (point) >
%
% default is 72/6 point (=1/6 inch).
%
/SYS_Line {72.00  6 div} def
%
%-----------------------------------------------------------------
% < X bias (Char) >
%
% move page to right : plus value
% move page to left  : minus value
%
% for FUJITSU XL-5340
%/SYS_Xbias {2 SYS_Char mul} def
%
/SYS_Xbias {0 SYS_Char mul} def
%
%-----------------------------------------------------------------
% < Y bias (Line) >
%
% move page to down : plus value
% move page to up   : minus value
%
% for FUJITSU XL-5340
%/SYS_Ybias {-2 SYS_Line mul} def
%
/SYS_Ybias {0 SYS_Line mul} def
%
%-----------------------------------------------------------------
% < max printable width (Char) >
%
/SYS_MaxWidth 80 def
%
%-----------------------------------------------------------------
% < max printable height (Line) >
%
/SYS_MaxHeight 66 def
%
%-----------------------------------------------------------------
% end user definition
```

Customize
=========

 In default ${PROVDIR}/etc/a4v.ps is for A4-porrait paper. if you want to use another paper, copy ${PROVDIR}/etc/a4v.ps to another.ps and edit it and set path to another.ps into PROVPS(environment variable).

 ex.

```
  o cp ${PROVDIR}/etc/a4v.ps ./another.ps
  o vi ./another.ps # edit for another paper
  o PROVPS=./another.ps prov -text foo.ov foo.txt | lpr -Pps-printer
```

Overlay definition

You can use following postscript macro to define overlay.

o DASH setLineStyle (DASH is 0 or 1 or ...)

set line style (solid, dash etc). DASH=0 mean solid line, DASH>=1 mean dash line.

o GRAY setGrayScale (GRAY is 0 to 1)

set gray scale. 0=black -> 0.5=gray -> 1=white.

o X0 Y0 X1 Y1 WIDTH drawLine

draw line between (X0,Y0) to (X1,Y1) with WIDTH width.
(X0,Y0),(X1,Y1) are (character,line) coordinate.
WIDTH is point.

o X0 Y0 X1 Y1 WIDTH XDELTA YDELTA REPEAT drawRepeatLine

repeat to draw line from (X0,Y0)-(X1,Y1) REPEAT times with increasing XDELTA and YDELTA.

o X0 Y0 X1 Y1 WIDTH drawBox

draw box with WIDTH width.

o X0 Y0 X1 Y1 fillBox

draw box and fill inside.

o POINT FONT_NORMAL setChar
FONT_ITALIC
FONT_BOLD
FONT_BOLDITALIC

set ank charset.

o POINT KFONT_RYUMIN setKanjiChar
KFONT_RYUMIN_V
KFONT_GOTHIC
KFONT_GOTHIC_V

set kanji charset.

o X Y (TEXT) drawText

draw text with ank charset. (X,Y) mean (left,top) of charcter.

o X Y <KANJI_TEXT> drawText

draw text with kanji charset. (X,Y) mean (left,top) of charcter.

format definition

format print layout from csv data file. each line of format definition
is defined like following.

o record_no field_no point column line

record_no : set record number. usually record_no is 1, but a page is
formatted from multi record, over 2 are used too.
field_no : set field number from csv data file record.
point : set character point.

```
    column    : set print column position.
    line      : set print line position.

  field separater of format definition file is TAB.

csv data file
=============

  o field separater of csv data file is TAB.
  o a field can’t hold ank/kanji together.
```

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Masahiko Ito <m-ito@mbox.kyoto-inet.or.jp>
http://myh.no-ip.org/~prov/