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pstops

Usage examples from fedotov@desy:inf/pstops .

Coordinate system and the order of operations

29.11.10

The man pstops says: "*The shift, rotation, and scaling are performed in that order...*". This seems to be misleading.

I have just solved the enigma for the 100th time and again it took quite long.

My current understanding:

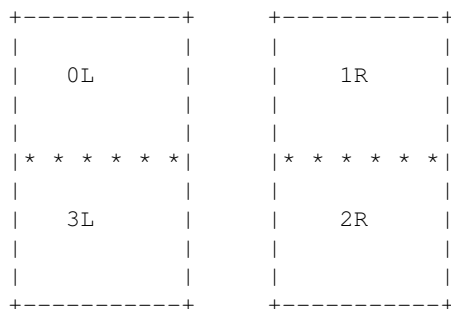
- the **order of operations** is:
 1. scaling
 2. rotation
 3. shift
- the **coordinate system**:
 - ◆ origin : left bottom corner of the input page
 - ◆ x axis: horizontal , direction *to the right*
 - ◆ y axis: vertical, direction *upwards*

03.11.02 a 4-pages-block rearrangement of pages in a ps file

An example of a 4-pages-block rearrangement of pages in a ps file with the `pstops' utility, resulting in the "DESY-PRINT" pattern:

```
pstops '4:3L@.7(21cm,0)+0L@.7(21cm,14.85cm),2R@.7(0,14.85cm)+1R@.7(0,29.7cm)' in.ps out.ps
```

The pages in the block are numbered from 0 to 3, and we put them onto 2 pages as follows (for duplex printing):



18.03.04 2-pages-block arrangement of pages from A3 output of pdf2ps

An example of 2-pages-block arrangement of pages from output of pdf2ps program, the latter pages being in a portrait A3 (upper half being used)

```
pstops -pa3 '2:0@.65(1.5cm,15cm)+1@.65(1.5cm,1cm)' a_pdf2ps_file.ps a_2pp.file
```

```
+-----+
|       |
|   0   |
|       |
| * * * |
| * * * |
|   1   |
|       |
+-----+
```

05.11.04 a ps -> 2pp ps conversion of a Blobel's pdf file

An example suited for a ps -> 2pp ps conversion of a Blobel's pdf file (converted to ps by **ps2ps** at don.itep.ru -- crashed on den):

```
pstops -pa4 '2:0@.85(1.9cm,15cm)+1@.85(1.9cm,1cm)' a_pdf2ps_file.ps a_2pp.file
```

Same initial pdf file but initially converted with **pdftops** (`to' instead of `2'):

```
pstops -pa4 '2:0@.85(1.4cm,10cm)+1@.85(1.4cm,-4cm)' a_pdftops.ps a.2pp.ps
```

05.11.04 an upper half of A4 pages (portrait) -> A4 landscape

A command that takes an upper half of A4 pages (portrait), rotates it left, scales by factor $\sqrt{2}=1.414$ and puts again on A4 in landscape :

```
pstops -pa4 '0@1.414L(42cm,0cm)' a.ps aa.ps
```

note: 42cm is the doubled width of A4 paper.

14.11.04 A4 landscape -> A4 portrait two pages per page

A command that takes A4 landscape, and puts to A4 portrait two pages per page (invented for half page latex, processed with the command from 05.11.04)

```
pstops -pa4 '2:0R@.65(.8cm,29.3cm)+1R@.65(.8cm,14.65cm)' a.ps a.2pp.ps
```

03.12.04 a version of "2 a4 landscapes -> portrait"

A version of the previous command "2 a4 landscapes -> portrait" with sizes tuned for ptt -> ps conversion with StarOffice5.2 :

```
pstops -pa4 '2:0R@.74(.8cm,29.3cm)+1R@.74(.8cm,14.65cm)' a.ps a.2pp.ps
```

05.05.09 amplify a root manual 5.20

Commands to amplify a root manual 5.20 and move the *page+section_title* line from a horizontal bottom position to a vertical left position.

18% magnification for a chapter of the 5.21 version :

```
pstops '1:0@1.18(-2.8cm,-1.5cm)+0L@1.17(2.2cm,6.2cm)' 2GettingStarted.pdftops.ps a.ps
```

11% for a complete 5.20 version :

```
pstops '1:0@1.11(-1.8cm,-1.5cm)+0L@1.10(2.2cm,7.2cm)' tmp.ps a.ps
```

This topic: Main > AVFedotovHowToPstops

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