## Displaying page layout variables

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## 1 Introduction

This  $\LaTeX$   $2_{\varepsilon}$  package is a reimplementation of layout.sty by Kent McPherson. It defines the command \layout which produces an overview of the layout of the current document. The command \layout\* recomputes the values it uses to produce the overview.

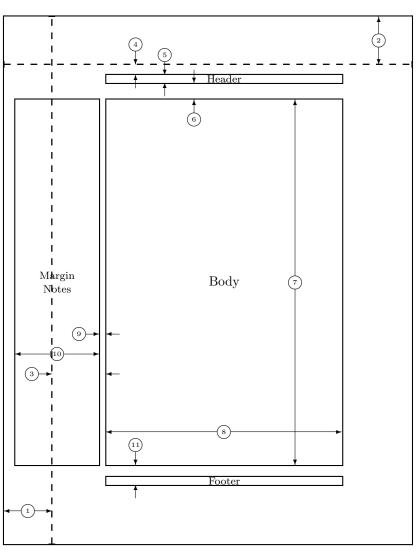
The figure on the next page shows the output of the  $\$ layout command for this document.

## 2 The implementation

This package prints a figure to illustrate the layout that is implemented by the document class. In the figure several words appear. They are stored in control sequences to be able to select a different language.

```
1 (*package)
2 \DeclareOption{dutch}{%
    \def\Headertext{Kopregel}
    \def\Bodytext{Broodtekst}
    \def\Footertext{Voetregel}
    \def\MarginNotestext{Marge\\Notities}
    \def\oneinchtext{een inch}
    \def\notshown{niet getoond}
    }
10 \DeclareOption{german}{%
    \def\Headertext{Kopfzeile}
12
    \def\Bodytext{Haupttext}
    \def\Footertext{Fu{\ss}zeile}
13
    \def\MarginNotestext{Rand-\\ notizen}
    \def\oneinchtext{ein Zoll}
15
    \def\notshown{ohne Abbildung}
17
18 \DeclareOption{ngerman}{\ExecuteOptions{german}}
```

<sup>\*</sup>Converted for  $\LaTeX 2\varepsilon$  by Johannes Braams and modified by Hideo Umeki



- one inch +  $\hfi$
- $\odsidemargin = 82pt$
- \headheight = 12pt \textheight = 550pt
- 9 \marginparsep = 11pt
- \footskip = 30pt \hoffset = 0pt \paperwidth = 614pt
- one inch + \voffset
- \topmargin = 16pt
- 6
- \headsep = 25pt \textwidth = 355pt 8
- \marginparwidth = 126pt \marginparpush = Opt (not shown)
  \voffset = Opt

\paperheight = 794pt

```
19 \DeclareOption{english}{%
    \def\Headertext{Header}
    \def\Bodytext{Body}
22
    \def\Footertext{Footer}
    \def\MarginNotestext{Margin\\Notes}
23
    \def\oneinchtext{one inch}
^{24}
    \def\notshown{not shown}
25
26
    }
27 \DeclareOption{french}{%
    \def\Headertext{Ent\^{e}te}
28
29
    \def\Bodytext{Corps}
    \def\Footertext{Pied de page}
30
    \def\MarginNotestext{Marge\\Notes}
    \def\oneinchtext{un pouce}
33
    \def\notshown{non affich\'{e}}
34
    }
35 \DeclareOption{francais}{\ExecuteOptions{french}}
36 \DeclareOption{spanish}{%
    \def\Headertext{Encabezamiento}
38
    \def\Bodytext{Cuerpo}
    \def\Footertext{Pie de p\'agina}
39
    \def\MarginNotestext{Notas\\ Marginales}
40
    \def\oneinchtext{una pulgada}
41
42
    \def\notshown{no mostradas}
43
   }
44 \DeclareOption{portuguese}{%
    \def\Headertext{Cabe\c{c}alho}
    \def\Bodytext{Corpo}
46
    \def\Footertext{Rodap\'e}
47
    \def\MarginNotestext{Notas\\ Marginais}
    \def\oneinchtext{uma polegada}
49
50
    \def\notshown{n\~ao mostradas}
51
52 \DeclareOption{brazilian}{%
    \def\Headertext{Cabe\c{c}alho}
    \def\Bodytext{Corpo}
    \def\Footertext{Rodap\'e}
55
    \def\MarginNotestext{Notas\\ Marginais}
56
    \def\oneinchtext{uma polegada}
57
    58
59 }
60 \DeclareOption{italian}{%
    \def\Headertext{Testatina}
61
    \def\Bodytext{Corpo}
62
    \def\Footertext{Piedino}
63
    \def\MarginNotestext{Note\\ Marginali}
    \def\oneinchtext{un pollice}
66
    \def\notshown{non mostrato}
67
    }
```

This package has an option verbose. Using it will make the command \layout type some of the parameters on the terminal.

```
68 \DeclareOption{verbose}{\let\LayOuttype\typeout}
```

The normal behaviour of this package when showing the values of the parameters is to truncate them. However, if you want to see the real parameter values you can use the option reals to get that effect.

```
70 \def\lay@value{}
```

71 \DeclareOption{integers}{%

\renewcommand\*{\lay@value}[2]{%

\expandafter\number\csname #10#2\endcsname pt}} 73

74 \DeclareOption{reals}{%

\renewcommand\*{\lay@value}[2]{\the\csname #2\endcsname}}

The default language is English, the default mode is silent and the default way of showing parameter values is to use integers.

76 \ExecuteOptions{english, silent, integers}

77 \ProcessOptions

\LayOutbs

Define \LayOutbs to produce a backslash. We use a definition which also works with OT1 fonts.

78 \newcommand\LayOutbs{}

79 \chardef\LayOutbs'\\

\ConvertToCount

This macro stores the value of a *length* register in a *count* register.

80 \def\ConvertToCount#1#2{%

First copy the value

81 #1=#2

Then divide it by 65536.

\divide #1 by 65536}

The result of this is that the *count* register holds the value of the *length* register in points.

\SetToHalf Small macros used in computing positions.

\SetToQuart

83 \def\SetToHalf#1#2{#1=#2\relax\divide#1by\tw@}  $84 \ensuremath{$ \def\SetToQuart\#1\#2\{\#1=\#2\relax\divide\#1by4\}$}$ 

\Identify A small macro used in identifying dimensions.

85 \def\Identify#1{%

\put(\PositionX,\PositionY){\circle{20}}

87 \put(\PositionX,\PositionY){\makebox(0,0){\tiny #1}}

88 }

\InsideHArrow

This macro is used to produce two horizontal arrows inside a box. The argument gives the width of the box.

89 \def\InsideHArrow#1{{%

```
90
     \ArrowLength = #1
     \divide\ArrowLength by \tw@
91
     \advance\ArrowLength by -10
     \advance\PositionX by -10
93
94
     \ifnum\ArrowLength<\z@
       \put(\PositionX,\PositionY){\vector(1,0){-\ArrowLength}}
95
       \advance\PositionX by 20
96
       \put(\positionX,\positionY){\vector(-1,0){-\ArrowLength}}\}
97
98
       \put(\PositionX,\PositionY){\vector(-1,0){\ArrowLength}}
99
100
       \advance\PositionX by 20
       \put(\PositionX,\PositionY){\vector(+1,0){\ArrowLength}}
101
102
103 }}
```

\InsideVArrow

This macro is used to produce two vertical arrows inside a box. The argument gives the height of the box.

```
104 \def\InsideVArrow#1{{%
     \ArrowLength = #1
105
     \divide\ArrowLength by \tw@
106
107
     \advance\ArrowLength by -10
108
     \advance\PositionY by -10
109
     \put(\PositionX,\PositionY){\vector(0,-1){\ArrowLength}}
     \advance\PositionY by 20
110
     \put(\PositionX,\PositionY){\vector(0,+1){\ArrowLength}}
112 }}
```

\OutsideHArrow This macro is used to produce two horizontal arrows to delimit a length. The first argument is the position for the right arrow, the second argument gives the length and the third specifies the length of the arrows.

```
113 \def\OutsideHArrow#1#2#3{{%
     \PositionX = #1
114
115
     \advance\PositionX by #3
     \put(\PositionX,\PositionY){\vector(-1,0){#3}}
116
     \PositionX = #1 \advance\PositionX-#2
117
     \advance\PositionX by -#3
118
     \put(\PositionX,\PositionY){\vector(+1,0){#3}}
119
120 }}
```

\OutsideVArrow This macro is used to produce two vertical arrows to delimit a length. The first argument is the position for the lower arrow, the second argument gives the length and the third and fourth specify the lengths of the lower and upper arrow.

```
121 \def\OutsideVArrow#1#2#3#4{{%
    \P
    \advance\PositionY by -#3
123
124
    \put(\PositionX,\PositionY){\vector(0,+1){#3}}
125
    \P
    \advance\PositionY#2
126
    \advance\PositionY#4
127
```

128 \put(\PositionX,\PositionY){\vector(0,-1){#4}}

```
129 }}
               \Show Macro used in the table that shows the setting of the parameters.
                      130 \def\Show#1#2{\LayOutbs #2 = \lay@value{#1}{#2}}
               \Type Macro used to show a setting of a parameter on the terminal.
                      131 \def\Type#1#2{%
                          \LayOuttype{#2 = \lay@value{#1}{#2}}}
            \oneinch A constant, giving the length of an inch in points (approximately)
                      133 \newcount\oneinch
                      134 \ \text{oneinch=} 72
                          Because the overview of the layout is produced in a figure environment we
                       need to allocate a number of counters that are used to store the values of various
                       dimensions.
    \cnt@paperwidth The dimensions of the paper
   \verb|\cnt@paperheight||_{135} \verb|\newcount| cnt@paperwidth|
                      136 \newcount\cnt@paperheight
                      137 \ConvertToCount\cnt@paperwidth\paperwidth
                      138 \ConvertToCount\cnt@paperheight\paperheight
       \cnt@hoffset the offsets,
       \verb|\cnt@voffset||_{139} \verb|\cnt@hoffset||
                      140 \newcount\cnt@voffset
                      141 \ConvertToCount\cnt@hoffset\hoffset
                      142 \ConvertToCount\cnt@voffset\voffset
    \cnt@textheight dimensions of the text area,
     \verb|\cnt@textwidth||_{143} \verb|\cnt@textheight||
                      144 \newcount\cnt@textwidth
     \cnt@topmargin margins,
 \verb|\cnt@oddsidemargin||_{145} \verb|\cnt@count\cnt@topmargin||
\cnt@evensidemargin 146 \newcount\cnt@oddsidemargin
                      147 \newcount\cnt@evensidemargin
    \cnt@headheight dimensions of the running heads,
       \colored{temporal} \cnt@headsep _{148} \newcount\cnt@headheight
                      149 \newcount\cnt@headsep
  \cnt@marginparsep marginal paragraphs,
\verb|\cnt@marginparwidth||_{150} \verb|\cnt@marginparsep||
 \verb|\cnt@marginparpush||_{151} \verb|\newcount| cnt@marginparwidth|
                      152 \newcount\cnt@marginparpush
```

\cnt@footskip the distance between the running footers and the text,

153 \newcount\cnt@footskip

and the height of the footers, which is needed here to display a box, but which isn't used by LATEX.

\fheight

154 \newcount\fheight

155 \fheight=12

Apart from integer representations of the page layout parameters we also need registers to store reference values in.

\ref@top

The position of the top of the 'printable area' is one inch below the top of the paper by default. The value of \ref@top is relative to the lower left corner of the picture environment that will be used.

156 \newcount\ref@top

157 \ref@top=\cnt@paperheight \advance\ref@top by -\oneinch

\ref@hoffset For the offsets,

 $\rowvert 158 \newcount\ref@hoffset$ 

159 \newcount\ref@voffset

The \hoffset and \voffset values are added to the default offset of one inch.

160 \ref@hoffset=\cnt@hoffset \advance\cnt@hoffset by \oneinch

161 \ref@voffset=\cnt@voffset

\cnt@voffset is converted to be relative to the origin of the picture.

162 \cnt@voffset=\ref@top

163 \advance\cnt@voffset by -\ref@voffset

\ref@head and the text areas, running heads,

164 \newcount\ref@head

\ref@body body of the text

165 \newcount\ref@body

\ref@foot and running footers.

166 \newcount\ref@foot

\ref@margin These are different for even and odd pages, so they are computed by \layout.

 $\verb|\ref@marginwidth| 167 \verb|\newcount| ref@margin|$ 

\ref@marginpar 168 \newcount\ref@marginwidth

169 \newcount\ref@marginpar

The following are a number of scratch registers, used in the positioning of the various pices of the picture.

170 \newcount\Interval

171 \newcount\ExtraYPos

172 \newcount\PositionX

173 \newcount\PositionY

174 \newcount\ArrowLength

```
All values that might change during the document are computed by calling the
\lay@getvalues
                macro \lay@getvalues. By default this macro is executed at \begin{document}.
               175 \def\lay@getvalues{%
                     \ConvertToCount\cnt@textheight\textheight
               176
               177
                     \ConvertToCount\cnt@textwidth\textwidth
               178
                     \ConvertToCount\cnt@topmargin\topmargin
               179
                     \ConvertToCount\cnt@oddsidemargin\oddsidemargin
               180
                     \ConvertToCount\cnt@evensidemargin\evensidemargin
               181
                     \ConvertToCount\cnt@headheight\headheight
               182
                     \ConvertToCount\cnt@headsep\headsep
                     \ConvertToCount\cnt@marginparsep\marginparsep
               183
                     \ConvertToCount\cnt@marginparwidth\marginparwidth
               184
                     \ConvertToCount\cnt@marginparpush\marginparpush
               185
                     \ConvertToCount\cnt@footskip\footskip
               186
                     \ref@head=\ref@top
               187
                       \advance\ref@head by -\ref@voffset
               188
                       \advance\ref@head by -\cnt@topmargin
               189
                       \advance\ref@head by -\cnt@headheight
               190
               191
                     \ref@body=\ref@head
               192
                       \advance\ref@body by -\cnt@headsep
               193
                       \advance\ref@body by -\cnt@textheight
               194
                     \ref@foot=\ref@body
                       \advance\ref@foot by -\cnt@footskip
               195
               196
                    }
               197 \AtBeginDocument{\lay@getvalues}
\computevalues
               The command \layout makes the picture and table that display the current set-
                tings of the layout parameters.
       \layout
      \layout*
               198 \newcommand\layout{%
                    \@ifstar{\lay@getvalues\lay@xlayout}{\lay@xlayout}}
               200 \def\lay@xlayout{%
               201
                     \lay@layout
                     \if@twoside
               202
               203
                       \lay@layout
               204
               The internal macro \lay@layout does all the dirty work.
  \lav@layout
               205 \newcommand\lay@layout{%
                     \thispagestyle{empty}
                    The actions of \layout depend on the pagestyle.
                     \if@twoside
               207
                      \ifodd\count\z@
               208
                   Here we deal with an odd page in the twosided case.
                         \typeout{Two-sided document style, odd page.}
               209
                    So we compute \ref@marginwidth, \ref@marginpar and \ref@margin.
                         \ref@marginwidth=\cnt@oddsidemargin
               210
               211
                         \ref@marginpar=\oneinch
```

```
212
         \advance\ref@marginpar by \ref@hoffset
         \advance\ref@marginpar by \cnt@oddsidemargin
213
214
         \ref@margin\ref@marginpar
215
         \if@reversemargin
           \verb|\advance| ref@marginpar by -\cnt@marginparsep|
216
           \advance\ref@marginpar by -\cnt@marginparwidth
217
218
         \else
            \advance\ref@marginpar by \cnt@textwidth
219
            \advance\ref@marginpar by \cnt@marginparsep
220
         \fi
221
222
       \else
    Here we deal with an even page in the two ided case.
     \typeout{Two-sided document style, even page.}
223
    So we compute \ref@marginwidth, \ref@marginpar and \ref@margin.
224
         \ref@marginwidth=\cnt@evensidemargin
225
         \ref@marginpar=\oneinch
226
         \advance\ref@marginpar by \ref@hoffset
         \advance\ref@marginpar by \cnt@evensidemargin
227
228
         \ref@margin\ref@marginpar
229
         \if@reversemargin
230
           \advance\ref@marginpar by \cnt@textwidth
           \advance\ref@marginpar by \cnt@marginparsep
231
232
233
            \advance\ref@marginpar by -\cnt@marginparsep
            \advance\ref@marginpar by -\cnt@marginparwidth
234
235
236
       \fi
     \else
237
    Finally we the case for single sided printing.
238
       \typeout{One-sided document style.}
239
       \ref@marginwidth=\cnt@oddsidemargin
240
       \ref@marginpar=\oneinch
241
       \advance\ref@marginpar by \ref@hoffset
       \advance\ref@marginpar by \cnt@oddsidemargin
242
       \ref@margin\ref@marginpar
243
       \if@reversemargin
244
         \advance\ref@marginpar by -\cnt@marginparsep
245
246
         \advance\ref@marginpar by -\cnt@marginparwidth
247
         \advance\ref@marginpar by \cnt@textwidth
248
249
         \advance\ref@marginpar by \cnt@marginparsep
250
       \fi
     \fi
251
```

Now we begin the picture environment; dividing all the lengths by two is done by setting  $\n$  unitlength to 0.5pt

```
\setlength{\unitlength}{.5pt}
252
     \begin{picture}(\cnt@paperwidth,\cnt@paperheight)
253
254
       \centering
       \thicklines
255
    First we have the pagebox and reference lines,
       \put(0,0){\framebox(\cnt@paperwidth,\cnt@paperheight){\mbox{}}}
256
       257
       \put(\cnt@hoffset,0){\dashbox{10}(0,\cnt@paperheight){\mbox{}}}
258
    then the header,
       \put(\ref@margin,\ref@head){%
259
         \framebox(\cnt@textwidth,\cnt@headheight)%
260
           {\footnotesize\Headertext}}
261
    the body of the text area,
       \put(\ref@margin,\ref@body){%
262
         \framebox(\cnt@textwidth,\cnt@textheight){\Bodytext}}
263
    the footer
       \put(\ref@margin,\ref@foot){%
264
         \framebox(\cnt@textwidth,\fheight){\footnotesize\Footertext}}
265
    and the space for marginal notes.
266
       \put(\ref@marginpar,\ref@body){%
267
         \framebox(\cnt@marginparwidth,\cnt@textheight)%
                  {\footnotesize\shortstack{\MarginNotestext}}}
    Then we start putting in 'arrows' to mark the various parameters. From here
we use \thinlines.
       \thinlines
269
    \PositionX and \PositionY will be the coordinates of the center of the arrow
displaying \textwidth.
       \SetToHalf\PositionX\cnt@textwidth
270
       \advance\PositionX by \ref@margin
271
The arrow should be a bit above the bottom of the 'body box'.
       \PositionY = \ref@body
273
       \advance\PositionY by 50
An identifying number is put here, in a circle.
       \Identify{8}
Then the arrow is drawn.
275
       \InsideHArrow\cnt@textwidth
    Now the \textheight
276
       \SetToHalf\PositionY\cnt@textheight
277
       \advance\PositionY by \ref@body
```

```
The x-position of the arrow is at 4/5 of the width of the 'body box'.
278
       \PositionX = \cnt@textwidth
279
       \divide\PositionX by 5
280
       \multiply \PositionX by 4
281
       \advance\PositionX by \ref@margin
    An identifying number is put here, in a circle.
       \Identify{7}
282
       \InsideVArrow\cnt@textheight
283
    The \hoffset.
       \P PositionY = 50
284
       \SetToHalf\PositionX\cnt@hoffset
285
286
       \Identify{1}
287
       \InsideHArrow\cnt@hoffset
    The width of the margin.
       \SetToQuart\PositionY\cnt@textheight
288
       \advance\PositionY by \ref@body
289
       \ifnum\ref@marginwidth > 0
290
         \OutsideHArrow\ref@margin\ref@marginwidth{20}
291
292
         \PositionX = \cnt@hoffset
293
       \else
294
         \OutsideHArrow\cnt@hoffset{-\ref@marginwidth}{20}
295
         \PositionX = \ref@margin
296
       \advance\PositionX by -30
297
       \Identify{3}
298
    the \marginparwidth,
       \SetToQuart\PositionY\cnt@textheight
299
       \advance\PositionY by \ref@body
300
 This arrow has to be bit below the one for the \oddsidemargin or
 \evensidemargin.
       \advance\PositionY by 30
301
       \SetToHalf\PositionX\cnt@marginparwidth
302
       \advance\PositionX by \ref@marginpar
303
304
       \Identify{10}
       \InsideHArrow\cnt@marginparwidth
305
    The \marginparsep, this depends on single or double sided printing.
306
       \advance\PositionY by 30
       \if@twoside
307
    Twosided mode, reversemargin;
         \if@reversemargin
308
            \ifodd\count\z@
309
              \OutsideHArrow\ref@margin\cnt@marginparsep{20}
310
              \PositionX = \ref@margin
311
            \else
312
313
              \OutsideHArrow\ref@marginpar\cnt@marginparsep{20}
```

```
314
             \PositionX = \ref@marginpar
           \fi
315
316
         \else
Not reversemargin;
317
           \ifodd\count\z@
             \OutsideHArrow\ref@marginpar\cnt@marginparsep{20}
318
             \PositionX = \ref@marginpar
319
320
             \OutsideHArrow\ref@margin\cnt@marginparsep{20}
321
322
             \PositionX = \ref@margin
           \fi
323
         \fi
324
       \else
325
    Single sided mode.
326
         \if@reversemargin
327
           \OutsideHArrow\ref@margin\cnt@marginparsep{20}
328
           \PositionX = \ref@margin
329
         \else
            \OutsideHArrow\ref@marginpar\cnt@marginparsep{20}
330
            \PositionX = \ref@marginpar
331
332
         \fi
333
       \advance\PositionX by -\cnt@marginparsep
334
       \advance\PositionX by -30
335
       \Identify{9}
336
    Identify the \footskip. The arrow will be located on 1/8th of the \textwidth.
       \PositionX = \cnt@textwidth
337
       \divide\PositionX by 8
338
       \advance\PositionX by \ref@margin
339
       \OutsideVArrow\ref@foot\cnt@footskip{20}{20}
340
       \PositionY = \ref@foot
341
       \advance\PositionY by \cnt@footskip
342
       \advance\PositionY by 30
343
       \Identify{11}
    Identify the \voffset. The arrow will be located a bit to the left of the edge
of the paper.
       \PositionX = \cnt@paperwidth
345
       \advance\PositionX by -50
346
       \PositionY = \cnt@paperheight
347
       \ExtraYPos = \PositionY
348
       \advance\ExtraYPos by -\cnt@voffset
349
       \advance\PositionY by \cnt@voffset
350
351
       \divide\PositionY by \tw@
352
       \Identify{2}
353
       \InsideVArrow\ExtraYPos
```

Identify \topmargin, \headheight and \headsep.

The arrows will be located on 1/8th of the \textwidth, with intervals of the same size, stored in \Interval.

```
354 \Interval = \cnt@textwidth
355 \divide\Interval by 8
356 \PositionX = \ref@margin
357 \advance\PositionX by \Interval
```

First the \topmargin. If \topmargin has a positive value, the arrow is upward. Otherwise, it is downward. The number label is always placed at the base of the arrow.

```
358
       \ifnum\cnt@topmargin > \z@
359
         \ExtraYPos = \ref@head
360
         \advance\ExtraYPos\cnt@headheight
361
         \OutsideVArrow\ExtraYPos\cnt@topmargin{20}{20}
         \PositionY = \ExtraYPos
362
363
         \advance\PositionY by \cnt@topmargin
364
       \else
         \ExtraYPos = \cnt@voffset
365
         \OutsideVArrow\ExtraYPos{-\cnt@topmargin}{20}{20}
366
         \PositionY = \ExtraYPos
367
368
         \advance\PositionY by -\cnt@topmargin
369
370
       \advance\PositionY by 30
371
       \Identify{4}
372
       \advance\PositionX by \Interval
Then the \headheight
373
       \OutsideVArrow\ref@head\cnt@headheight{20}{20}
374
       \PositionY = \ref@head
       \advance\PositionY by \cnt@headheight
375
       \advance\PositionY by 30
376
       \Identify{5}
377
       \advance\PositionX by \Interval
378
 and finally the \headsep
       \ExtraYPos=\ref@body
379
       \advance\ExtraYPos\cnt@textheight
380
       \OutsideVArrow\ExtraYPos\cnt@headsep{20}{20}
381
       \PositionY = \ref@body
382
       \advance\PositionY by \cnt@textheight
383
384
       \advance\PositionY by -30
385
       \Identify{6}
    Here we can end the picture environment and insert a little space.
     \end{picture}
386
387
     \medskip
388
```

Below the picture we put a table to show the actual values of the parameters. Note that fractional points are truncated, i.e., 72.27pt is displayed as 72pt

The table is typeset inside a box with a depth of 0 to always keep it on the same page as the picture.

```
\vtop to Opt{%
389
       \@minipagerestore\footnotesize\ttfamily
390
       \begin{tabular}{@{}rl@{\hspace{20pt}}rl}
391
392
         1 & \oneinchtext\ + \LayOutbs\texttt{hoffset}
393
           & 2 & \oneinchtext\ + \LayOutbs\texttt{voffset} \\
394
         3 & \if@twoside
                \ifodd\count\z@ \Show{cnt}{oddsidemargin}
395
396
                \else \Show{cnt}{evensidemargin}
397
                \fi
             \else
398
                \Show{cnt}{oddsidemargin}
399
             \fi
                                     & 4 & \Show{cnt}{topmargin} \\
400
         5 & \ \ \Show{cnt}{headheight} & 6 & \Show{cnt}{headsep} \\
401
         7 & \Show{cnt}{textheight} & 8 & \Show{cnt}{textwidth} \\
402
         9 & \ \ \Show{cnt}{marginparsep}&10& \Show{cnt}{marginparwidth} \\
403
         11& \Show{cnt}{footskip} &
                                         & \Show{cnt}{marginparpush}
404
405
          \rlap{(\notshown)}\\
406
           & \Show{ref}{hoffset}
                                     &
                                         & \Show{ref}{voffset} \\
           & \Show{cnt}{paperwidth} &
407
                                         & \Show{cnt}{paperheight} \\
408
     \end{tabular}\vss}
409
```

When the option verbose was used the following lines will show dimensions on the terminal.

```
410 \Type{ref}{hoffset}
411 \Type{ref}\{voffset}
412 \Type{cnt}\{textheight}
413 \Type{cnt}\{textwidth}
Finally we start a new page.
414 \newpage
415 }
416 \(/\package\)
```