

# The `sidecap` package

Rolf Niepraschk (niepraschk@ptb.de)

Hubert Gäßlein

v1.6f – 2003/06/06

## Abstract

This package defines the new environments `SCfigure` and `SCtable`, analogous to `figure` and `table`, which make it easy to typeset captions sideways.

Additionally, a `wide` environment is defined; it allows to use the margin area, e. g., for figures wider than `\textwidth`.

## 1 Introduction

In some cases it may be useful to typeset the caption aside the figure or the table. For this purpose the package `sidecap` defines the new environments `SCfigure` and `SCtable`. The figure or the table and the caption are put into two minipages that are positioned side by side and centered as a whole. The space between the minipages is `\sidecaptionsep`. The correct positioning with respect to left and right pages requires at least two compilation runs.

## 2 Usage

```
\usepackage[<option>]{sidecap}
\begin{SCtable} [<relwidth>] [<float>] ... \end{SCtable}
\begin{SCfigure} [<relwidth>] [<float>] ... \end{SCfigure}
\begin{SCtable*} [<relwidth>] [<float>] ... \end{SCtable*}
\begin{SCfigure*} [<relwidth>] [<float>] ... \end{SCfigure*}
```

- $\langle option \rangle$  – **outercaption** (default): Caption appears left on left pages and right on right pages.
- innercaption**: Caption appears right on left pages and left on right pages.
- leftcaption**, **rightcaption**: Caption is always on the left or right, respectively.
- wide**: The floating objects may extend into the margin area.
- raggedright**, **raggedleft**, **ragged**: Better justification for small captions. The **ragged2e** package is used if available.
- $\langle relwidth \rangle$  – optional; caption width relative to the width of the figure or table. A large value (e.g., 50) reserves the maximum width that is possible. Default is `\sidecaptionrelwidth` (which is initialized to 1.0).
- $\langle float \rangle$  – optional; like the floating position parameter of the original table/figure environments. Default is **tbp**.

`\begin{wide} ... \end{wide}`

The **wide** environment may be used inside **figure** and **table** environments as well as in the normal text.

### 3 Required packages

This package requires the standard L<sup>A</sup>T<sub>E</sub>X package **ifthen**.

### 4 Supported packages

This package is compatible with L<sup>A</sup>T<sub>E</sub>X package **hyperref** (tested with version 6.71v as of 2001/11/12). If the **raggedright** or **raggedleft** or **ragged** package option has been given, then captions will be set with ragged margin. The **ragged2e** package will be used if it can be found.

## 5 The implementation

### 5.1 Register allocation and auxiliary macros

```

1  $\langle *package \rangle$ 
2
3 \RequirePackage{ifthen}
4
5 \@ifdefinable{\SC@BOXWD}{\newdimen\SC@BOXWD}
6 \@ifdefinable{\SC@CAPWD}{\newdimen\SC@CAPWD}
7 % 2 noetig ???
8 \@ifdefinable{\SC@tempdima}{\newdimen\SC@tempdima}
```

```

9 \@ifdefinable{\SC@tempdimb}{\newdimen\SC@tempdimb}
10 \newcounter{SC@C} \newsavebox{\SC@BOX} \newcommand*{\SC@FLOAT}{-}
11 \newcommand*{\SC@IDENT}{\SC@number\value{SC@C}}
12 \newcommand*{\SC@label[1]}{\gdef\SC@LABtext{#1}\ignorespaces}
13 \newcommand*{\SC@orig@caption} \newcommand*{\SC@orig@label}
14 \newcommand*{\sidecaptionsep} \newcommand*{\SC@pageref}
15 \edef\sidecaptionsep{\the\marginparsep}
16 \newcommand*{\sidecaptionrelwidth}{1.0}
17 \newcommand*{\sidecaptionvpos[2]}{% 2002/08/31
18   \@namedef{SC@#1@vpos}{#2}%
19 }
20
21 \newboolean{SC@wide}
22 \def\SC@widefalse{\global\let\ifSC@wide\iffalse}
23 \def\SC@widetrue {\global\let\ifSC@wide\iftrue}
24
25 % Kann man auf dieses Laengenregister verzichten? Nein! (RN) <****>
26
27 \newcommand*{\SC@calcwidths[1]}{%
28   \SC@tempdima#1\relax
29   \SC@BOXWD\wd\SC@BOX
30   \SC@CAPWD\SC@fraction\SC@BOXWD
31   \@tempdima\SC@BOXWD
32   \advance\@tempdima\SC@CAPWD
33   \advance\@tempdima\sidecaptionsep
34   \ifdim\@tempdima>\SC@tempdima
35     \advance\SC@CAPWD-\@tempdima
36     \advance\SC@CAPWD\SC@tempdima
37   \fi
38   \SC@tempdimb\@tempdima
39 }
40
41 %\newcommand*{\isSC@WIDEi}[2]{#2} %default: false
42 %\newcommand*{\isSC@WIDEii}[2]{#2} %default: false
43 \newcommand*{\isSC@WIDEi}[2]{\ifSC@wide#1\else#2\fi} %default: false
44 \newcommand*{\isSC@WIDEii}[2]{\ifSC@wide#1\else#2\fi} %default: false
45
46 %\newcommand*{\isSC@First}[2]{#1} %default: true
47
48 \newcommand*{\SC@justify}
49 \newcommand*{\SC@justify@caption}
50 \newcommand*{\SC@justify@body}
51
52 \newboolean{SC@origRagged} \setboolean{SC@origRagged}{false} %% ???
\SC@SaveCommands
53 \newcommand*{\SC@SaveCommands}{%
54   \let\SC@orig@caption=\caption \let\SC@orig@label=\label%
55 }

```

```
56 \SC@SaveCommands % necessary? or even wrong?
```

## 5.2 Package hyperref compatibility

Note: The \pageref doesn't work with hyperref ...:-(

```
57 \if@twoside
58   \newcommand*{\isSC@ODD}[2]{%
59     \ifthenelse{\isodd{\SC@pageref{\SC@IDENT}}}{#1}{#2}}
60 \else
61   \newcommand*{\isSC@ODD}[2]{#1}%
62 \fi
```

## 5.3 Option processing

```
63 \DeclareOption{innercaption}{%
64   \renewcommand*{\SC@FLOAT}[2]{%
65     \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}}
66 \renewcommand*{\SC@justify@caption{%
67   \isSC@ODD{\RaggedLeft}{\RaggedRight}}
68 }
69
70 \DeclareOption{outercaption}{%
71   \renewcommand*{\SC@FLOAT}[2]{%
72     \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}}
73 \renewcommand*{\SC@justify@caption{%
74   \isSC@ODD{\RaggedRight}{\RaggedLeft}}
75 }
76
77 \DeclareOption{rightcaption}{%
78   \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
79   \def\SC@justify@caption{\RaggedRight}%
80 }
81
82 \DeclareOption{leftcaption}{%
83   \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
84   \def\SC@justify@caption{\RaggedLeft}%
85 }
86
87 \DeclareOption{wide}{%
88   \renewcommand*{\isSC@WIDEi}[2]{\if@twocolumn #2\else #1\fi}% ???
89   \renewcommand*{\isSC@WIDEii}[2]{#1}}
```

These 'ragged...' options should stay here, behind the '...caption' options!

```
89 \DeclareOption{raggedright}{%
90   \def\SC@justify{\RaggedRight}}
91 \DeclareOption{raggedleft}{%
92   \def\SC@justify{\RaggedLeft}}
93 \DeclareOption{ragged}{%
94   \def\SC@justify{\SC@justify@caption}%   \let ?
```

```

95 }
96 \DeclareOption{origragged}{\setboolean{SC@origRagged}{true}}
97 \DeclareOption{margincaption}{%
98   \ds@outercaption\ds@outerbody\ds@wide
99   \let\ds@innercaption\@empty
100   \let\ds@leftcaption\@empty
101   \let\ds@rightcaption\@empty
102   \def\SC@calcwidths#1{%
103     \SC@tempdimb#1\relax
104     \SC@BOXWD\SC@tempdimb % *-form !!! ???
105     \advance\SC@BOXWD-\marginparwidth
106     \advance\SC@BOXWD-\marginparsep
107     \SC@CAPWD\marginparwidth
108   }%
109 }
110 \DeclareOption{innerbody}{%
111   \def\SC@justify@body{%
112     \isSC@ODD{\RaggedRight}{\RaggedLeft}}
113 }
114
115 \DeclareOption{outerbody}{%
116   \def\SC@justify@body{%
117     \isSC@ODD{\RaggedLeft}{\RaggedRight}}
118 }
119
120 \DeclareOption{centerbody}{%
121   \def\SC@justify@body{\Centering}
122 }
123
124 \DeclareOption{rightbody}{%
125   \def\SC@justify@body{\RaggedLeft}%
126 }
127
128 \DeclareOption{leftbody}{%
129   \def\SC@justify@body{\RaggedRight}%
130 }
131 \ExecuteOptions{outercaption}
132 %%\InputIfFileExists{sidecap.cfg}{\} % hier ? % 2002/06/14
133 \ProcessOptions\relax
134 \AtBeginDocument{%
135   \ifSC@origRagged\else
136     \@ifpackageloaded{ragged2e}{\}%
137     {%
138       \IfFileExists{ragged2e.sty}{%
139         \RequirePackage[NewParameters]{ragged2e}}%
140       {%
141         \PackageWarningNoLine{sidecap}{%
142           Package 'ragged2e' not found -- expect bad formatting}%

```

```

143     }%
144   }
145   \fi
146   \@ifundefined{RaggedRight}%
147   {%
148     \let\RaggedLeft\raggedleft
149     \let\RaggedRight\raggedright
150     \let\Centering\centering
151   }%
152   \@ifpackageloaded{hyperref}%
153   {\let\SC@pageref=\hypergetpageref}%
154   {%
155     \@ifpackageloaded{babel}%
156     {\let\SC@pageref=\org@pageref}%
157     {\let\SC@pageref=\pageref}%
158   }
159 }

```

#### 5.4 User-level macros (environments)

**SCfigure** Simply passes the first (optional) parameter and the required one, in this case ‘figure’, to **SC@float**. The figure caption should be bottom aligned.

```

160
161 %\newcommand*{SCfigureVpos{b}}% 2002/06/14
162 \@ifdefinable{SC@figure@vpos}{\def\SC@figure@vpos{b}}
163 \newenvironment{SCfigure}{\SC@float[\SC@figure@vpos]{figure}}{\endSC@float}
164 \newenvironment{SCfigure*}{\SC@dblfloat[\SC@figure@vpos]{figure}}{\endSC@dblfloat}
165

```

**SCtable** Simply passes the first (optional) parameter and the required one, in this case ‘table’, to **SC@float**. The table caption should be top aligned.

```

166
167 %\newcommand*{SCtableVpos{t}}% 2002/06/14
168 \@ifdefinable{SC@table@vpos}{\def\SC@table@vpos{t}}
169 \newenvironment{SCtable}{\SC@float[\SC@table@vpos]{table}}{\endSC@float}
170 \newenvironment{SCtable*}{\SC@dblfloat[\SC@table@vpos]{table}}{\endSC@dblfloat}
171

```

**wide** This is an environment that allows to extend the width of the text body (or of a floating environment) by using the margin space. It shouldn’t be used in twocolumn text.

```

172 %
173 \newenvironment{wide}%
174 {%
175   \@parboxrestore% 2002/06/14 -- SW-Arch.: wozu? 2002/08/24
176   \advance\linewidth\marginparwidth
177   \advance\linewidth\marginparsep
178   \ifx\label\SC@label
179   <+debug> \typeout{WIDE: inside SCfloat}%
180   \SC@widetrue

```

```

181 \else
182 <+debug> \typeout{WIDE: outside SCfloat}%
183 \begin{lrbox}\SC@BOX % \begin necessary: --> \@noitemerr
184 \minipage\linewidth
185 \fi
186 }%
187 {%
188 \ifx\label\SC@label
189 <+debug>
190 \typeout{WIDE: inside SCfloat}%
191 %\renewcommand*\isSC@WIDEi}[2]{\if@twocolumn ##2\else ##1\fi}%
192 %\renewcommand*\isSC@WIDEii}[2]{##1}%
193 %\let\isSC@WIDE\isSC@WIDEi
194 \else
195 <+debug>
196 \typeout{WIDE: outside SCfloat}%
197 \endminipage
198 \end{lrbox}% \end necessary: --> \@noitemerr
199 \global\advance\c@SC@C\@ne
200 \SC@orig@label{\SC@IDENT}% nicht \ref... !!!
201 \trivlist \item\relax
202 \isSC@ODD{\def\SC@hpos{1}}{\def\SC@hpos{r}}%
203 <+debug>
204 \typeout{WIDE: \string\linewidth=\the\linewidth}%
205 \noindent\makebox[\textwidth][\SC@hpos]{\copy\SC@BOX}% \usebox{\SC@BOX}
206 \endtrivlist
207 \fi
208 }
209

```

## 5.5 Internal macros

### 5.5.1 Collecting arguments

The new internal float environment, similar/analogous to L<sup>A</sup>T<sub>E</sub>X's `@float` environment.

Syntax: `\SC@float[⟨vpos⟩]{⟨name⟩}[⟨relwidth⟩][⟨fps⟩]`

- Parameter `⟨vpos⟩` (optional) is the vertical positioning of the caption.
- Parameter `⟨name⟩` (required) is the name of the ‘original’ L<sup>A</sup>T<sub>E</sub>X floating environment (e.g., ‘figure’ or ‘table’).
- Parameter `⟨relwidth⟩` (optional) is the desired relative width of the caption.
- Parameter `⟨fps⟩` (optional) is the usual L<sup>A</sup>T<sub>E</sub>X float positioning specifier.

The usual ‘cascading’ programming style is applied (cf. L<sup>A</sup>T<sub>E</sub>X's `@float`).

`\SC@float` Initially, the first optional parameter is checked for.

```

210 \def\SC@float{\SC@SaveCommands\@ifnextchar[\SC@xfloat{\SC@xfloat[c]}}

```

`\SC@xfloat` Then the first and second parameters are consumed and the third one is checked for.

```
211 \def\SC@xfloat[#1]#2{\@ifnextchar[%
212   {\SC@yfloat{#1}{#2}}%
213   {\SC@zfloat{#1}{#2}{\sidecaptionrelwidth}{\@nameuse{fps@#2}}}}
```

`\SC@yfloat` Again, the fourth (and last) parameter is checked for.

```
214 \def\SC@yfloat#1#2[#3]{\@ifnextchar[%
215   {\SC@zfloat{#1}{#2}{#3}}%
216   {\SC@zfloat{#1}{#2}{#3}{\@nameuse{fps@#2}}}}
```

### 5.5.2 Capturing the float's contents

`\SC@zfloat` Finally, here is the macro that does all the work.

```
217 \def\SC@zfloat#1#2#3[#4]{%
218   \def\SC@vpos{#1}%
219   \expandafter\edef\csname fps@#2\endcsname{#4}%
220   \def\SC@captop{#2}%
221   \ifx#3@empty\def\SC@fraction{1}\else\def\SC@fraction{#3}\fi%
   The \caption and \label commands must be redefined.
222   \let\SC@CAPtext\@empty \let\SC@OPTCAPtext\@empty \let\SC@LABtext\@empty%
223   \renewcommand\caption[2][]{\gdef\SC@OPTCAPtext{##1}%
224     \gdef\SC@CAPtext{##2}\ignorespaces}% \SC@justify
225   \let\label=\SC@label
226   \@namedef{fnum#2}{\mbox{\@nameuse{#2name}~\@nameuse{the#2}}}% caption2 ?
   Save the figure or table (or whatever) in a box.
227   \SC@widefalse
228   \begin{lrbox}\SC@BOX % \begin necessary: --> \@noitemerr
229   %%% \strut
230 }%
231
```

`\SC@dblfloat` Analogous to L<sup>A</sup>T<sub>E</sub>X's `\dblfloat`.

```
232 \def\SC@dblfloat{%
233   \SC@SaveCommands%
234   \if@twocolumn\let\reserved@a\SC@dbflt\else\let\reserved@a\SC@float\fi
235   \reserved@a%
236 \def\SC@dbflt{\SC@float}
```

### 5.5.3 Output the float's contents

`\endSC@float` Outputs the figure or table (or whatever) and the caption.

```
237 \def\endSC@float{%
238   %%% \strut
239   \end{lrbox}% \end necessary: --> \@noitemerr
240 \if@debug \typeout{onecolumn}%
241   \let\isSC@WIDE\isSC@WIDEi%
```



```

242 \def\@FLOAT{\@float}\def\end@FLOAT{\end@float}%
243 \isSC@WIDE%
244 {\@tempdima\textwidth % \columnwidth ???
245 \advance\@tempdima\marginparwidth
246 \advance\@tempdima\marginparsep}%
247 {\@tempdima\columnwidth}%
248 <+debug> \typeout{endSC@float: \string\@tempdima=\the\@tempdima}%
249 \endSC@FLOAT\@tempdima}%

```

\endSC@dblfloat Ditto for \*-forms of floats.

```

250 \def\endSC@dblfloat{%
251 \end{lrbox}% \end necessary: --> \noitemerr
252 <+debug> \typeout{twocolumn}%
253 \let\isSC@WIDE\isSC@WIDEii%
254 \def\@FLOAT{\@dblfloat}\def\end@FLOAT{\end@dblfloat}%
255 \isSC@WIDE%
256 {\@tempdima\textwidth%
257 \advance\@tempdima\marginparwidth
258 \advance\@tempdima\marginparsep}%
259 {\@tempdima\textwidth}%
260 <+debug>
261 \typeout{endSC@dblfloat: \string\@tempdima=\the\@tempdima}%
262 \endSC@FLOAT\@tempdima}%

```

\endSC@FLOAT Sets the caption width. If caption width plus figure/table width (plus separation space) is too large then the caption width is set equal to the remaining width.

```

263 \def\endSC@FLOAT#1{%
264 \SC@calcwidths{#1}%

```

\@FLOAT Calls the L<sup>A</sup>T<sub>E</sub>X float command with the two minipages inside a main minipage.

```

265 \@FLOAT{\SC@captype}%
266 \abovecaptionskip\z@skip
267 \belowcaptionskip\z@skip

```

Creates a label for each figure or table (etc.) for later determination if the page is odd or even. The counter SC@C must be incremented before.

```

268 \global\advance\c@SC@C\@ne
269 \SC@orig@label{\SC@IDENT}% nicht \ref... !!!

```

\isSC@WIDE

```

270 \isSC@WIDE%
271 {\ifdim\SC@tempdimb>\textwidth % ???
272 \isSC@ODD{\def\SC@hpos{1}}{\def\SC@hpos{r}}}%
273 \else%
274 \def\SC@hpos{c}%
275 \fi
276 \@tempdimc\textwidth}% ???
277 {\@tempdimc\SC@tempdima\def\SC@hpos{c}}}%

```

```

278 \makebox[\@tempdimc][\SC@hpos]{%

\SC@FLOAT Has two parameters. The first parameter is the minipage with the caption text
inside and the last parameter is the minipage with the body of the figure or table
inside.

279 \SC@FLOAT%
280 {\minipage[\SC@vpos]{\SC@CAPWD}%
281 %% \nointerlineskip %\offinterlineskip%
282 %% \kernOpt\relax
283 \hrule \@height\z@\@depth\z@ %% Testen, Doku. (Implementierung) !!!
284 %\show\SC@justify@caption
285 %% \tracingall\tracingonline=0
286 \SC@justify
287 \let\arrayparboxrestore\relax % sonst Blocksatz! (\@parboxrestore)
288 \let\usecaptionmargin\relax % sonst Pseudo-Blocksatz, nicht-alternierend!
289 % \isSC@ODD {\RaggedRight }{\RaggedLeft }
290 %% A B C
291 % \isSC@ODD{\typeout{xxxxx ungerade}}{\typeout{xxxxx gerade}}%
292 % \def\makecaption##1##2{##1: ##2\endgraf}%
293 % \@parboxrestore
294 % \setminipage
295 \iffalse
296 % DEBUG:
297 \endgraf
298 \@makecaption{\csname fnum@\SC@captype\endcsname}%
299 {\ignorespaces \SC@CAPtext}%
300 \endgraf
301 \else
302 % \ifthenelse{\equal{\SC@OPTCAPtext}{\@empty}}{%
303 \ifx\SC@OPTCAPtext\@empty% Noetig?
304 % FM: strut needed twice for multiline captions
305 \SC@orig@caption[\SC@CAPtext]%
306 {\strut\ignorespaces\SC@CAPtext\unskip\strut}% \expandafter\protect
307 \else
308 % FM: strut needed twice for multiline captions
309 % FM: if \SC@CAPtext can contain trailing banks then we also need \unskip
310 % FM: (not checked)
311 \SC@orig@caption[\SC@OPTCAPtext]% \expandafter\protect
312 {\strut\ignorespaces\SC@CAPtext\unskip\strut}% \expandafter\protect
313 \fi
314 \unskip% ??? Dok. !!!
315 \ifx\SC@LABtext\@empty\else
316 \SC@orig@label{\SC@LABtext}\fi% \expandafter\protect
317 \fi
318 %% X Y Z
319 \hrule \@height\z@\@depth\z@
320 \endminipage}%
321 {\minipage[\SC@vpos]{\SC@BOXWD}%
322 %% \nointerlineskip %\offinterlineskip%

```

```

323      %% \kernOpt\relax
324      \hrule \@height\z@\@depth\z@
325      \SC@justify@body
326      \unhbox\SC@BOX % \strut \unhbox/\usebox{\SC@BOX}% TESTEN!
327      %% \kernOpt\relax
328      \hrule \@height\z@\@depth\z@
329      \endminipage}%
330  }%
331  \end@FLOAT%
332 }

333 \InputIfFileExists{sidecap.cfg}{-}{-} % hier ? % 2002/06/14
334 \</package>

```

## Index

Numbers written in *italic* refer to the page where the corresponding entry is described, the ones underlined to the definition, the rest to the places where the entry is used.

```

abovecaptionskip= \subitem abovecaptionskip, 223, 224
advance= \subitem advance, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000
belowcaptionskip= \subitem belowcaptionskip, 223, 224
caption= \subitem caption, 223, 224
Centering= \subitem Centering, 223, 224
centering= \subitem centering, 223, 224
columnwidth= \subitem columnwidth, 223, 224
copy= \subitem copy, 223, 224
csname= \subitem csname, 223, 224
DeclareOption= \subitem DeclareOption, 223, 224
def= \subitem def, 223, 224
environments:;SCTable=SCTable, 223, 224
environments:;wide=wide, 223, 224
equal= \subitem equal, 223, 224
ExecuteOptions= \subitem ExecuteOptions, 223, 224
innercaption= \subitem innercaption, 223, 224
leftcaption= \subitem leftcaption, 223, 224
outerbody= \subitem outerbody, 223, 224
outercaption= \subitem outercaption, 223, 224

```

```

let= \subitem *+\let+, 22, 23, \subitem *+\\let+, 186, 190, 355, 716, 157, 193,
    222, 225, 234, relax= \subitem *+\relax+, 28(10), 28(10), 201, 160, 282, 287, 288, 323,
    241, 253, 287, 288 renewcommand= \subitem *+\renewcommand+, 54, 66, *+\Scfigurepos+
linewidth= \subitem *+\linewidth+, 174, 177, \subitem *+\theheightofpackage+, 3, 139
    a= \subitem +, 234, 235 vironment), 166
makebox= \subitem *+\makebox+, 205, 278 SctableVpos= \subitem *+\SctableVpost+
marginparsep= \subitem *+\marginparsep+, 15, 106, 107, 248, 258, 287, 288, 326 \setboolean+, 52,
marginparwidth= \subitem *+\marginparwidth+, 105, 140, 175, 176, 245, 245, *+\setlower+
mbox= \subitem *+\mbox+, 226 \subitem *+\midwidth+, 264 \subitem *+\sidecapt
minipage= \subitem *+\minipage+, 184, 280, 324 \subitem *+\captionsep+, 224, 299, 300, 306, 309, 319, 320, 321
    caption= \subitem CAPtext= \subitem *+\caption+, 224, 299, 300, 306, 309, 319, 320, 321
    catype= \subitem *+\caption+, 224, 299, 300, 306, 309, 319, 320, 321 \subitem *+\sidecaption+
newboolean= \subitem *+\newboolean+, 2, 52 \subitem *+\CAPwidth+, 30, \subitem *+\string+, 204, 248, 2
newcommand= \subitem *+\newcommand+, 10, 14, 16, 17, 27, \subitem *+\input+, 259, 538, 306
    61, 161, 167 dblfloat= \subitem dbfloat+, 164, 170, \main{232}
newcounter= \subitem *+\newcounter+, 10, \subitem FLOAT+, 10, 64, 71, 78, 83, 279, \main{279}, 205,
newdimen= \subitem *+\newdimen+, 5, 6, 8, 9, \subitem *+\the+, 15, 204, 248, 26
newenvironment= \subitem *+\newenvironment+, 163, 164, 169, 170, \subitem *+\tracingall+, 285
newsavebox= \subitem *+\newsavebox+, 10, \subitem hpos= \subitem *+\tracingonline+
noindent= \subitem *+\noindent+, 205 \subitem IDENT+= 59, \subitem *+\trivlist+, 201
nointerlineskip= \subitem *+\nointerlineskip+, 281, 322, \subitem *+\typeout+, 179, 182
number= \subitem *+\number+, 11 \subitem label= 12, 178, 188, 225
    label= \subitem uninbox= \subitem *+\uninbox+, 326
offinterlineskip= \subitem *+\offinterlineskip+, 28, 326 \subitem *+\unskip+, 306, 309, 
pageref= \subitem pageref+, 156 \subitem OPTCAPtext= \subitem *+\usebox+, 205, 326
    pageref= \subitem pageref+, 14, 59, 153, 156, 157
PackageWarningNoLine= \subitem *+\PackageWarningNoLine+, 56, 210, 233
pageref= \subitem *+\pageref+, 157 \subitem tempdim+ , 8, \subitem *+\value+, 11
ProcessOptions= \subitem *+\ProcessOptions+, 1, 3, 9, 38, 103, 104, 271
protect= \subitem *+\protect+, 306, 311, 312, 316, 280, \subitem *+\wd+, 29
    widefalse= \subitem widefalsewidid2, 227(envi-
RaggedLeft= \subitem *+\RaggedLeft+, 60, 174, 241, 242, 243, 244, 289
raggedleft= \subitem *+\raggedleft+, \subitem xfloat+, 210, \main{211}
RaggedRight= \subitem *+\RaggedRight+, 67, 174, 243, 244, 289, 319, 321, 328
raggedright= \subitem *+\raggedright+, \subitem zfloat+ skip+ 213, 215, \subitem *+\main{276}, 267

```