The enparen package

Heiko Oberdiek <heiko.oberdiek at googlemail.com>

2012/01/07 v1.0

Abstract

The package defines macros to set parentheses that automatically change the symbols from inner to outer fences.

Contents

1	Dog	cumentation	1	
	1.1	User macros	2	
	1.2	Contexts	3	
	1.3	Options	3	
	1.4	Notes	3	
2	Implementation 4			
	2.1	Resources	4	
	2.2	Contexts	4	
		2.2.1 Stack for contexts	4	
		2.2.2 Context user macros	5	
	2.3	Symbols	6	
	2.4	Main user macros	6	
	2.5	Options	7	
	2.6	Context settings	8	
	2.7	At end of document	8	
3	Inst	allation	9	
	3.1	Download	9	
	3.2	Bundle installation	9	
	3.3	Package installation	9	
	3.4	Refresh file name databases	10	
	3.5	Some details for the interested	10	
4	References 10			
5		tory	10	
	[201	2/01/07 v1.0]	10	
6	Ind	ex	11	

1 Documentation

The LATEX package provides macros for automatically changed parentheses symbols depending on the fence order. The innermost parentheses are always using the same parentheses. The symbols changes for the outer fences.

Example:

{a (b) [c (d)] (e)}

is generated by

```
\documentclass{article}
\usepackage{enparen}
\begin{document}
  \enparen{a \enparen{b} \enparen{c \enparen{d}} \enparen{e}}
\end{document}
```

The package is the result of a newsgroup thread. Dan gives the following specification [1]:

"On the other hand, the rules for fences are usually the reverse: innermost fences are always (), next outer are [], etc. This means the opening fence has to wait until all the fences between it and the matching close have been detected before it can decide whether to be (or [or {."

The fence level counting starts from innermost parentheses with one. For the next outer fences the level is increased by one. The example above with level indexes:

```
{a (_1b)_1 [_2c (_1d)_1]_2 (e)}_3
```

The correct level is only known at the closing symbol. Therefore the correct value is remembered in the main <code>.aux</code> file and used in the second LATEX run.

1.1 User macros

```
\enparen \{\langle text \rangle\}
```

The macro \enparen puts its argument $\langle text \rangle$ in parentheses. If the macro is nested, the used fence symbols change for the outer fences.

```
\enparenLeft \enparenRight
```

Instead of \enparen{text} the left and right symbol can be used separately, but in pairs:

```
\enparenLeft text\enparenRight
```

\enparenLeft and \enparenRight may be used at different group levels, but they must be properly nested.

```
\ensuremath{\verb| length{|}} \ensuremath{|} \ensurem
```

Macro \enparenSetSymbols configures the $\langle opening\ symbol \rangle$ and $\langle closing\ symbol \rangle$ for the $\langle level \rangle$. The $\langle level \rangle$ is a number and the counting starts with one. Level zero is used, if the correct level is not known (e.g. in the first LATEX run). The package defines the following sets:

```
\enparenSetSymbols{0}{(){)}
\enparenSetSymbols{1}{(){)}
\enparenSetSymbols{2}{[]}
\enparenSetSymbols{3}{\{}{\}}
```

Example for changing the third and adding a fourth level:

```
\end{$\end{$\end{\end}} \end{$\end} \end{$\end} \end{$\end} \end{$\end} \end{$\end{\end}} \end{$\end{\end}} \end{\end}
```

```
\enparenUnsetSymbols \{\langle level \rangle\}
```

The symbols for level $\langle level \rangle$ are removed. Example scenario: Only two nesting levels must be used, the package defines more, then the third level can be disabled by $\ensuremath{\verb|level|}$ and the user gets warnings if parentheses at level 3 are needed.

1.2 Contexts

```
\enparenBeginContext \{\langle name \rangle\}
\enparenEndContext \{\langle name \rangle\}
```

If the current text is interrupted by footnotes, floats with captions, then the parentheses inside the text of footnotes, captions, ...should restart from scratch. This can be achieved by embedding the text inside macros \enparenBeginContext and \enparenEndContext. These macros must be properly nested. The $\langle name \rangle$ for the begin and end macro must be the same. It is a help for debugging problems, because the warning messages show the context name. But it is not necessary that the begin/end pairs have different names. Example:

```
\enparenLeft text before table ...
\begin{table}
  \caption{Table caption}
  \enparenBegin{Context}{table}
  Other text \enparen{foobar}.
  \enparenEnd{Context}{table}
\end{table}
text after table ...
\enparenRight
```

The parentheses inside the table environment and context 'table' are not nested inside other parentheses: (foobar). In case of captions and footnotes the contexts are automatically added, see next section about options.

1.3 Options

```
\enparenSetup \{\langle key\ value\ list \rangle\}
```

Some options (currently all) can also be set after the package is loaded. They can be set in the argument $\langle key \ value \ list \rangle$ of \enparenSetup. Options are disabled after they are used the last time. Currently all options are boolean options and are disabled in \begin{document}.

caption: The caption text is put in a context caption.

footnote: The footnote text is put in a context footnote.

Example for disabling the two options at different places:

```
\usepackage[caption=false]{enparen}
\enparenSetup{footnote=false}
```

1.4 Notes

Implicite kerning: Unexpandable stuff might affect the implicite kerning. The package cannot avoid this, because it need to define and redefine macros at the occurence of each symbol. This is done before the opening and after the closing symbol, thus that the implicite kerning inside is not affected.

2 Implementation

```
1 (*package)
                         2 \NeedsTeXFormat{LaTeX2e}
                         [2012/01/07 v1.0 Parentheses nesting (HO)]%
                        2.1
                             Resources
                         5 \RequirePackage{ltxcmds}[2011/11/09]
                         6 \ltx@IfUndefined{numexpr}{%
                             \PackageError{enparen}{%
                               Missing e-TeX's \ltx@backslashchar numexpr.\MessageBreak
                         9
                               The package will continue with emergency definitions%
                            \ \ \@ehc
                         10
                             \def\enparenLeft{(}%
                         11
                            \def\enparenRight{)}%
                         12
                            \long\def\enparen#1{\enparenLeft#1\enparenRight}%
                         13
                            \let\enparenSetup\ltx@gobble
                         14
                            \let\enparenSetSymbols\ltx@gobblethree
                         15
                            \let\enparenUnsetSymbols\ltx@gobble
                            \endinput
                         17
                         18 }{}
                         19 \RequirePackage{protecteddef} [2011/01/31]
                         20 \RequirePackage{atveryend} [2011/06/30]
                         21 \RequirePackage{uniquecounter}[2011/01/30]
                         22 \RequirePackage{zref-base}[2011/03/18]
                         23 \RequirePackage{kvoptions} [2011/06/30]
                         24 \RequirePackage{kvsetkeys} [2011/10/18]
\zref@wrapper@mainaux
                         25 \providecommand{\zref@wrapper@mainaux}[1]{%
                            \ifx\@auxout\@mainaux
                         27
                               #1%
                         28
                         29
                               \begingroup
                                 \let\@auxout\@mainaux
                         30
                                 #1%
                         31
                        32
                               \endgroup
                             \fi
                        33
                         34 }
                        35 \UniqueCounterNew{enparen}
                        36 \zref@newprop{enparen}[0]{}
                        2.2
                              Contexts
\enparenContextDefault
                        37 \def\enparenContextDefault{main}
         \enparen@ctx
                         38 \let\enparen@ctx\ltx@empty
        \enparen@stack
                        39 \let\enparen@stack\ltx@empty
                        2.2.1 Stack for contexts
     \enparen@CtxStack
                         40 \global\let\enparen@CtxStack\ltx@empty
```

```
\enparen@CtxStackPush
                           41 \def\enparen@CtxStackPush#1{%
                               \xdef\enparen@CtxStack{%
                                  {\enparen@ctx}{\enparen@stack}%
                           43
                                  \enparen@CtxStack
                           44
                           45
                               \xdef\enparen@ctx{#1}%
                           46
                               \global\let\enparen@stack\ltx@empty
                           47
                           48 }
   \enparen@CtxStackPop
                           49 \def\enparen@CtxStackPop{%
                           50
                               \ifx\enparen@CtxStack\ltx@empty
                                 \PackageWarning{enparen}{%
                           51
                                   Pop request for empty context stack%
                           52
                           53
                                 \global\let\enparen@ctx\enparenContextDefault
                           54
                                 \global\let\enparen@stack\ltx@empty
                           55
                           56
                               \else
                           57
                                 \xdef\enparen@ctx{%
                           58
                                    \expandafter\ltx@car\enparen@CtxStack\@nil
                           59
                                 \xdef\enparen@stack{%
                           60
                                   \expandafter\ltx@carsecond\enparen@CtxStack\@nil
                           61
                           62
                                 \xdef\enparen@CtxStack{%
                           63
                                    \expandafter\ltx@cdrtwo\enparen@CtxStack\@nil
                           64
                           65
                           66
                               \fi
                           67 }
                          2.2.2 Context user macros
   \enparenBeginContext
                           68 \ProtectedDef*{\enparenBeginContext}[1]{%
                               \enparen@CtxStackPush{#1}%
                           70 }
     \enparenEndContext
                           71 \ProtectedDef*{\enparenEndContext}[1]{%
                           72
                               \edef\enparen@temp{#1}%
                           73
                               \ifx\enparen@temp\enparen@ctx
                           74
                               \else
                                 \PackageWarning{enparen}{%
                           75
                                   Context mismatch in end request.\MessageBreak
                           76
                                    `#1' should be ended, but current context\MessageBreak
                           77
                                   is `\enparen@ctx'%
                           78
                                 }%
                           79
                           80
                               \enparenCheckEmptyStack
                           81
                           82
                               \enparen@CtxStackPop
                           83 }
\enparenCheckEmptyStack
                           84 \ProtectedDef*{\enparenCheckEmptyStack}[0]{%
                           85
                               \ifx\enparen@stack\ltx@empty
                           86
                               \else
                           87
                                  \PackageWarning{enparen}{%
                                   Ending non-empty stack `\enparen@ctx':\MessageBreak
                           88
                                    \enparen@PrintStack\MessageBreak
                           89
                                 }%
                           90
                               \fi
                           91
```

```
92 }
  \enparen@PrintStack
                        93 \def\enparen@PrintStack{%
                        94 \expandafter\enparen@PrintStackAux
                            \enparen@stack\ltx@empty\ltx@empty
                        95
                        96 }
\enparen@PrintStackAux
                        97 \def\enparen@PrintStackAux#1#2{%
                            \ifx\ltx@empty#1%
                        98
                            \else
                        99
                              {#1:#2}%
                       100
                              \expandafter\enparen@PrintStackAux
                       101
                       102
                            \fi
                       103 }
                       2.3
                             Symbols
   \enparenSetSymbols
                       104 \ProtectedDef*{\enparenSetSymbols}[3]{%
                            \expandafter
                       105
                            \def\csname enparen@symbol\the\numexpr#1L\endcsname{#2}%
                       106
                            \expandafter
                       107
                       108
                            \def\csname enparen@symbol\the\numexpr#1R\endcsname{#3}%
                       109 }
 \enparenUnsetSymbols
                       110 \ProtectedDef*{\enparenUnsetSymbols}[1]{%
                       111
                            \expandafter
                            \let\csname enparen@symbol\the\numexpr#1L\endcsname\ltx@undefined
                       112
                       113
                            \expandafter
                       114
                            115 }
                       116 \enparenSetSymbols{0}{(){)}
                       117 \enparenSetSymbols{1}{(){)}
                       118 \enparenSetSymbols{2}{[]{]}
                       119 \enparenSetSymbols{3}{\{}{\}}
                       120 \enparenSetSymbols{4}{\ensuremath{\langle}}{\ensuremath{\rangle}}
                       2.4 Main user macros
             \enparen
                       121 \ProtectedDef{\enparen}[1]{%
                            \enparenLeft#1\enparenRight
                       122
                       123 }
         \enparenLeft
                       124 \ProtectedDef*{\enparenLeft}[0]{%
                            \UniqueCounterCall{enparen}\enparen@Left
                       126 }
        \enparen@Left
                       127 \def\enparen@Left#1{%
                       128
                            \xdef\enparen@stack{%
                              {#1}{1}%
                       129
                              \expandafter\enparen@Inc\expandafter2\expandafter!%
                       130
                       131
                              \enparen@stack\ltx@empty\ltx@empty
                       132
                            \edef\enparen@tmp{\zref@extract{enparen#1}{enparen}}%
                       133
```

```
\ltx@IfUndefined{enparen@symbol\enparen@tmp L}{%
                                            134
                                                                \PackageWarning{enparen}{%
                                            135
                                                                     Undefined symbols for level \enparen@tmp
                                            136
                                            137
                                            138
                                                                \csname enparen@symbol0L\endcsname
                                            139
                                                          }{%
                                            140
                                                                \csname enparen@symbol\enparen@tmp L\endcsname
                                            141
                                                          }%
                                            142 }
     \enparen@Inc
                                            143 \def\enparen@Inc#1!#2#3{%
                                            144
                                                          \t \sum_{x\in \mathbb{Z}} 2x
                                            145
                                                          \else
                                                                \ifnum#3<#1 %
                                            146
                                                                      {#2}{#1}%
                                            147
                                                                      \expandafter\enparen@Inc
                                            148
                                                                     \verb|\the\numexpr#1+1| expand after | expand after | % | for the least of the least 
                                            149
                                                                \else
                                            150
                                                                      {#2}{#3}%
                                            151
                                                                \fi
                                            152
                                            153
                                                          \fi
                                            154 }
  \enparenRight
                                            155 \ProtectedDef*{\enparenRight}[0]{%
                                                          \ifx\enparen@stack\ltx@empty
                                            156
                                                                \PackageWarning{enparen}{%
                                            157
                                                                     Missing left symbol for right symbol%
                                            158
                                            159
                                            160
                                                                \csname enparen@symbolOR\endcsname
                                            161
                                                                \expandafter\enparen@Right\enparen@stack\@nil
                                            162
                                            163
                                                          \fi
                                            164 }
\enparen@Right
                                            165 \def\enparen@Right#1#2#3\@ni1{%
                                            166
                                                          \ltx@IfUndefined{%
                                            167
                                                                enparen@symbol%
                                                                \zref@extract{enparen#1}{enparen}%
                                            168
                                            169
                                                               R.%
                                                          }{%
                                            170
                                                                \csname enparen@symbolOR\endcsname
                                            171
                                            172
                                                          }{%
                                            173
                                                                \csname
                                                                      enparen@symbol%
                                            174
                                            175
                                                                      \zref@extract{enparen#1}{enparen}%
                                            176
                                                                       R%
                                                                \endcsname
                                            177
                                                          }%
                                            178
                                                          \zref@wrapper@mainaux{%
                                            179
                                                                \zref@setcurrent{enparen}{#2}%
                                            180
                                                                \zref@labelbyprops{enparen#1}{enparen}%
                                            181
                                            182
                                                          \xdef\enparen@stack{#3}%
                                            183
                                            184 }
                                            2.5
                                                             Options
                                            185 \SetupKeyvalOptions{%
                                                         family=enparen,%
```

```
prefix=enparen@,%
                  187
                   188 }
   \enparenSetup
                   189 \ProtectedDef*{\enparenSetup}[0]{%
                        \kvsetkeys{enparen}%
                   191 }
                   192 \DeclareBoolOption[true] {footnote}
                   193 \DeclareBoolOption[true] {caption}
                   194 \ProcessKeyvalOptions*
                  2.6
                         Context settings
\enparen@AtBegin
                   195 \def\enparen@AtBegin{%
                        \ifenparen@footnote
                  196
                  197
                          \let\enparen@org@makefntext\@makefntext
                  198
                          \long\def\@makefntext##1{%
                            \enparen@org@makefntext{%
                  199
                  200
                              \enparenBeginContext{footnote}%
                  201
                              ##1%
                  202
                              \enparenEndContext{footnote}%
                  203
                            }%
                          }%
                  204
                        \fi
                  205
                        \enparen@Disable{footnote}%
                  206
                        \ifenparen@caption
                  207
                          \let\enparen@org@makecaption\@makecaption
                  208
                          \long\def\@makecaption##1##2{%
                  209
                  210
                            \enparen@org@makecaption{##1}{%
                  211
                              \enparenBeginContext{caption}%
                  212
                              ##2%
                              \enparenEndContext{caption}%
                  213
                            }%
                  214
                          }%
                  215
                        \fi
                  216
                        \enparen@Disable{caption}%
                  217
                  218 }
\enparen@Disable
                  219 \def\enparen@Disable#1{%
                  220
                        \DisableKeyvalOption[%
                          action=warning,%
                  221
                          package=enparen,%
                  222
                  223
                       ]{enparen}{#1}%
                  224 }
                  225 \AtBeginDocument{\enparen@AtBegin}
                         At end of document
  \enparen@AtEnd
                  226 \def\enparen@AtEnd{%
                        \enparenCheckEmptyStack
                  227
                        \ifx\enparen@CtxStack\ltx@empty
                  228
                  229
                        \else
                          \PackageWarningNoLine{enparen}{%
                  230
                  231
                            Context stack is not empty at end of document.\MessageBreak
                  232
                            Current stack and contents of context stack:\MessageBreak
                            [\enparen@ctx]:[\enparen@PrintStack]%
                  233
```

234

\expandafter

```
235 \enparen@PrintContextStack\enparen@CtxStack\relax\relax
236 }%
237 \fi
238 }
```

\enparen@PrintContextStack

```
239 \def\enparen@PrintContextStack#1#2{%
240 \ifx\relax#1\ltx@empty
241 \else
242 \MessageBreak
243 [#1]:[\enparen@PrintStackAux#2\ltx@empty\ltx@empty]% hash-ok
244 \expandafter\enparen@PrintContextStack
245 \fi
246 }
247 \AtVeryEndDocument{\enparen@AtEnd}
248 \(/package\)
```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

CTAN:macros/latex/contrib/oberdiek/enparen.dtx The source file.

CTAN:macros/latex/contrib/oberdiek/enparen.pdf Documentation.

Bundle. All the packages of the bundle 'oberdiek' are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

TDS refers to the standard "A Directory Structure for TEX Files" (CTAN:tds/tds.pdf). Directories with texmf in their name are usually organized this way.

3.2 Bundle installation

Unpacking. Unpack the oberdiek.tds.zip in the TDS tree (also known as texmf tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory TDS:scripts/oberdiek/ for scripts that need further installation steps. Package attachfile2 comes with the Perl script pdfatfi.pl that should be installed in such a way that it can be called as pdfatfi. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

3.3 Package installation

Unpacking. The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain T_EX :

```
tex enparen.dtx
```

¹ftp://ftp.ctan.org/tex-archive/

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as texmf tree):

```
enparen.sty \rightarrow tex/latex/oberdiek/enparen.sty enparen.pdf \rightarrow doc/latex/oberdiek/enparen.pdf enparen.dtx \rightarrow source/latex/oberdiek/enparen.dtx
```

If you have a docstrip.cfg that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

3.4 Refresh file name databases

If your TEX distribution (teTEX, mikTEX, ...) relies on file name databases, you must refresh these. For example, teTEX users run texhash or mktexlsr.

3.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the .dtx source file. It can be extracted by AcrobatReader 6 or higher. Another option is pdftk, e.g. unpack the file into the current directory:

```
pdftk enparen.pdf unpack_files output .
```

Unpacking with IATEX. The .dtx chooses its action depending on the format: plain TEX: Run docstrip and extract the files.

LATEX: Generate the documentation.

If you insist on using \LaTeX for docstrip (really, docstrip does not need \LaTeX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{enparen.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the .dtx or the .drv to generate the documentation. The process can be configured by the configuration file ltxdoc.cfg. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfIATEX:

```
pdflatex enparen.dtx
makeindex -s gind.ist enparen.idx
pdflatex enparen.dtx
makeindex -s gind.ist enparen.idx
pdflatex enparen.dtx
```

4 References

[1] Dan Luecking: Re: bracket order; newsgroup comp.text.tex; message id \(9b07c9c8-ff92-4cbf-b3a9-84efecfeb506@124g2000yqm.googlegroups.com \) 2012-01-05. http:

```
//groups.google.com/group/comp.text.tex/msg/8774519da31c2352
```

5 History

[2012/01/07 v1.0]

First version.

6 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

Symbols	I
\@auxout 26, 30	\ifenparen@caption 207
\@ehc 10	\ifenparen@footnote 196
\@mainaux 26, 30	\ifnum 146
\@makecaption	\ifx 26, 50, 73, 85, 98, 144, 156, 228, 240
\@makefntext 197, 198	, -, -, -, -, -, -, -, -, -, -, -, -,
\@nil 58, 61, 64, 162, 165	K
\{ 119	\kvsetkeys 190
\} 119	L
	\langle 120
A	\ltx@backslashchar 8
\AtBeginDocument 225	\ltx@car 58
\AtVeryEndDocument 247	\ltx@carsecond
\mathbf{C}	\ltx@cdrtwo
\csname 106, 108,	\ltx@empty 38, 39, 40, 47, 50, 55, 85,
112, 114, 138, 140, 160, 171, 173	95, 98, 131, 144, 156, 228, 240, 243
,,,,,,,,	\ltx@gobble 14, 16
D	\ltx@gobblethree
\DeclareBoolOption 192, 193	\ltx@IfUndefined 6, 134, 166
\DisableKeyvalOption 220	\ltx@undefined 112, 114
${f E}$	
\endcsname 106, 108,	M
112, 114, 138, 140, 160, 171, 177	\MessageBreak
\endinput 17	8, 76, 77, 88, 89, 231, 232, 242
\enparen	N
\enparen@AtBegin <u>195</u> , 225	\NeedsTeXFormat 2
\enparen@AtEnd <u>226</u> , 247	\numexpr 106, 108, 112, 114, 149
\enparen@ctx	
. <u>38,</u> 43, 46, 54, 57, 73, 78, 88, 233	P
\enparen@CtxStack $\underline{40}$,	\PackageError
42, 44, 50, 58, 61, 63, 64, 228, 235	\PackageWarning 51, 75, 87, 135, 157
\enparen@CtxStackPop 49, 82	\Processes
$\verb \end{tabular} $$ \e$	\ProcessKeyvalOptions 194
$\label{eq:constraints} $$ \operatorname{CtxStackPush} \dots \frac{41}{206}, \frac{69}{217}, \frac{219}{219} $$$	$\label{eq:processKeyvalOptions} $$\operatorname{ProcessKeyvalOptions} \dots \frac{194}{68},$
$\label{eq:constraints} $$ \begin{array}{llll} \end{tabular} & \begin{array}{llll} & \underline{41}, \ 69 \\ \end{tabular} \\ \e$	\ProcessKeyvalOptions 194 \ProtectedDef 68, 71, 84, 104, 110, 121, 124, 155, 189
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\label{eq:linear_process} $$ \Pr cssKeyvalOptions$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\ProcessKeyvalOptions 194 \ProtectedDef 68, 71, 84, 104, 110, 121, 124, 155, 189
\enparen@CtxStackPush	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\ProcessKeyvalOptions
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\ProcessKeyvalOptions
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\ProcessKeyvalOptions 194 \ProtectedDef 68,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\ProcessKeyvalOptions 194 \ProtectedDef 68,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\ProcessKeyvalOptions 194 \ProtectedDef 68, 71, 84, 104, 110, 121, 124, 155, 189 \providecommand 25 \ProvidesPackage 3 R \rangle 120 \RequirePackage 5, 19, 20, 21, 22, 23, 24 S \SetupKeyvalOptions 185 T
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\ProcessKeyvalOptions 194 \ProtectedDef 68,
\enparen@CtxStackPush 41, 69 \enparen@Disable 206, 217, 219 \enparen@Inc 130, 143 \enparen@Left 125, 127 \enparen@org@makecaption 208, 210 \enparen@org@makefntext 197, 199 \enparen@PrintContextStack 235, 239 \enparen@PrintStack 89, 93, 233 \enparen@PrintStack 94, 97, 243 \enparen@Right 162, 165 \enparen@stack 39, 43, 47, 55,	\ProcessKeyvalOptions 194 \ProtectedDef 68, 71, 84, 104, 110, 121, 124, 155, 189 \providecommand 25 \ProvidesPackage 3 R \rangle 120 \RequirePackage 5, 19, 20, 21, 22, 23, 24 S \SetupKeyvalOptions 185 T \the 106, 108, 112, 114, 149
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\ProcessKeyvalOptions 194 \ProtectedDef 68, 71, 84, 104, 110, 121, 124, 155, 189 \providecommand 25 \ProvidesPackage 3 R \rangle 120 \RequirePackage 5, 19, 20, 21, 22, 23, 24 S \SetupKeyvalOptions 185 T \the 106, 108, 112, 114, 149 U
\enparen@CtxStackPush	\ProcessKeyvalOptions
\enparen@CtxStackPush	\ProcessKeyvalOptions 194 \ProtectedDef 68, 71, 84, 104, 110, 121, 124, 155, 189 \providecommand 25 \ProvidesPackage 3 R \rangle 120 \RequirePackage 5, 19, 20, 21, 22, 23, 24 S \SetupKeyvalOptions 185 T \the 106, 108, 112, 114, 149 U
\enparen@CtxStackPush	\ProcessKeyvalOptions
$\begin{array}{llllllllllllllllllllllllllllllllllll$	\ProcessKeyvalOptions 194 \ProtectedDef 68, 71, 84, 104, 110, 121, 124, 155, 189 \providecommand 25 \ProvidesPackage 3 R \rangle 120 \RequirePackage 5, 19, 20, 21, 22, 23, 24 S \SetupKeyvalOptions 185 T \the 106, 108, 112, 114, 149 U \UniqueCounterCall 125 \UniqueCounterNew 35 Z \zref@extract 133, 168, 175
$\begin{array}{llllllllllllllllllllllllllllllllllll$	\ProcessKeyvalOptions 194 \ProtectedDef 68,