

The pdfcolparallel package

Heiko Oberdiek
<oberdiek@uni-freiburg.de>

2008/08/11 v1.2

Abstract

This packages fixes bugs in `parallel` and improves color support by using several color stacks that are provided by pdfTeX since version 1.40.

Contents

| | |
|--|-----------|
| 1 Usage | 1 |
| 1.1 Future | 1 |
| 2 Implementation | 2 |
| 2.1 Identification | 2 |
| 2.2 Load and fix package <code>parallel</code> | 2 |
| 2.3 Color stack support | 6 |
| 2.4 Redefinitions | 7 |
| 3 Test | 9 |
| 4 Installation | 11 |
| 4.1 Download | 11 |
| 4.2 Bundle installation | 11 |
| 4.3 Package installation | 11 |
| 4.4 Refresh file name databases | 11 |
| 4.5 Some details for the interested | 12 |
| 5 References | 12 |
| 6 History | 12 |
| [2007/09/09 v1.0] | 12 |
| [2007/12/12 v1.1] | 12 |
| [2008/08/11 v1.2] | 12 |
| 7 Index | 13 |

1 Usage

```
\usepackage{pdfcolparallel}
```

The package `pdfcolparallel` loads package `parallel` [1] and redefines some macros to fix bugs.

If color stacks are available then package `parallel` is further patched to support them.

1.1 Future

If there will be a new version of package `parallel` that adds support for color stacks, then this package may become obsolete.

2 Implementation

2.1 Identification

```
1 (*package)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pdfcolparallel}%
4 [2008/08/11 v1.2 Fixed parallel with color stacks support (HO)]%
```

2.2 Load and fix package parallel

Package parallel is loaded. Before options of package pdfcolparallel are passed to package parallel.

```
5 \DeclareOption*{%
6   \PassOptionsToPackage{\CurrentOption}{parallel}%
7 }
8 \ProcessOptions\relax
9 \RequirePackage{parallel}[2003/04/13]
10 \RequirePackage{infwarerr}[2007/09/09]
```

\pcp@ColorPatch

```
11 \begingroup\expandafter\expandafter\expandafter\endgroup
12 \expandafter\ifx\csname currentgrouplevel\endcsname\relax
13   \def\pcp@ColorPatch{%
14   \else
15     \def\pcp@ColorPatch{%
16       \@ifundefined{set@color}{%
17         \gdef\pcp@ColorPatch{%
18         }{%
19         \gdef\pcp@ColorPatch{%
20         \gdef\pcp@ColorResets{%
21         \bgroup
22         \aftergroup\pcp@ColorResets
23         \aftergroup\egroup
24         \let\pcp@OrgSetColor\set@color
25         \let\set@color\pcp@SetColor
26         \edef\pcp@GroupLevel{\the\currentgrouplevel}%
27       }%
28     }%
29   \pcp@ColorPatch
30   }%
```

\pcp@SetColor

```
31   \def\pcp@SetColor{%
32     \ifnum\pcp@GroupLevel=\currentgrouplevel
33       \let\pcp@OrgAfterGroup\aftergroup
34       \def\aftergroup{%
35         \g@addto@macro\pcp@ColorResets
36       }%
37       \pcp@OrgSetColor
38       \let\aftergroup\pcp@OrgAfterGroup
39     \else
40       \pcp@OrgSetColor
41     \fi
42   }%
43 \fi
```

\pcp@CmdCheckRedef

```
44 \def\pcp@CmdCheckRedef#1{%
45   \begingroup
46   \def\pcp@cmd{#1}%
47   \afterassignment\pcp@CmdDo
```

```

48     \long\def\reserved@a
49 }
50 \def\pcp@CmdDo{%
51     \expandafter\ifx\pcp@cmd\reserved@a
52     \else
53         \edef\x*{\expandafter\string\pcp@cmd}%
54         \@PackageWarningNoLine{pdfcolparallel}{%
55             Command \x* has changed.\MessageBreak
56             Supported versions of package 'parallel':\MessageBreak
57             \space\space 2003/04/13\MessageBreak
58             The redefinition of \x* may\MessageBreak
59             not behave correctly depending on the changes%
60         }%
61     \fi
62     \expandafter\endgroup
63     \expandafter\def\pcp@cmd
64 }

65 \def\pcp@SwitchStack#1#2{}
66 \def\pcp@SetCurrent#1{}

```

\ParallelLText

```

67 \pcp@CmdCheckRedef\ParallelLText{%
68     \everypar{}%
69     \@restorepar
70     \begingroup
71     \hbadness=3000 %
72     \let\footnote=\ParallelFootnote
73     \ParallelWhichBox=0 %
74     \global\setbox\ParallelLBox=\vbox\bgroup
75     \hsize=\ParallelLWidth
76     \aftergroup\ParallelAfterText
77     \begingroup
78     \afterassignment\ParallelCheckOpenBrace
79     \let\x=%
80 }{%
81     \everypar{}%
82     \@restorepar
83     \@nobreakfalse
84     \begingroup
85     \hbadness=3000 %
86     \let\footnote=\ParallelFootnote
87     \ParallelWhichBox=0 %
88     \global\setbox\ParallelLBox=\vbox\bgroup
89     \hsize=\ParallelLWidth
90     \linewidth=\ParallelLWidth
91     \pcp@SwitchStack{Left}\ParallelLBox
92     \aftergroup\ParallelAfterText
93     \pcp@ColorPatch
94     \begingroup
95     \afterassignment\ParallelCheckOpenBrace
96     \let\x=%
97 }

```

\ParallelRText

```

98 \pcp@CmdCheckRedef\ParallelRText{%
99     \everypar{}%
100    \@restorepar
101    \begingroup
102    \hbadness=3000 %
103    \ifnum\ParallelFNMode=\@ne
104        \let\footnote=\ParallelRFootnote

```

```

105 \else
106 \let\footnote=\ParallelLFootnote
107 \fi
108 \ParallelWhichBox=\@ne
109 \global\setbox\ParallelRBox=\vbox\bgroup
110 \hsize=\ParallelRWidth
111 \aftergroup\ParallelAfterText
112 \begingroup
113 \afterassignment\ParallelCheckOpenBrace
114 \let\x=%
115 }{
116 \everypar{}
117 \@restorepar
118 \@nobreakfalse
119 \begingroup
120 \hbadness=3000 %
121 \ifnum\ParallelFNMode=\@ne
122 \let\footnote=\ParallelRFootnote
123 \else
124 \let\footnote=\ParallelLFootnote
125 \fi
126 \ParallelWhichBox=\@ne
127 \global\setbox\ParallelRBox=\vbox\bgroup
128 \hsize=\ParallelRWidth
129 \linewidth=\ParallelRWidth
130 \pcp@SwitchStack{Right}\ParallelRBox
131 \aftergroup\ParallelAfterText
132 \pcp@ColorPatch
133 \begingroup
134 \afterassignment\ParallelCheckOpenBrace
135 \let\x=%
136 }

```

\ParallelParTwoPages

```

137 \pcp@CmdCheckRedef\ParallelParTwoPages{
138 \ifnum\ParallelBoolVar=\@ne
139 \par
140 \begingroup
141 \global\ParallelWhichBox=\@ne
142 \newpage
143 \vbadness=10000 %
144 \vfuzz=3ex %
145 \splittopskip=\z@skip
146 \loop%
147 \ifnum\ParallelBoolVar=\@ne%
148 \ifnum\ParallelWhichBox=\@ne
149 \ifvoid\ParallelLBox
150 \mbox{} %
151 \newpage
152 \else
153 \global\ParallelWhichBox=\z@
154 \fi
155 \else
156 \ifvoid\ParallelRBox
157 \mbox{} %
158 \newpage
159 \else
160 \global\ParallelWhichBox=\@ne
161 \fi
162 \fi
163 \ifnum\ParallelWhichBox=\z@
164 \ifodd\thepage
165 \mbox{} %

```

```

166         \newpage
167     \fi
168     \hbox to\textwidth{%
169         \vbox{\vsplit\ParallelLBox to.98\textheight}%
170     }%
171 \else
172     \ifodd\thepage\relax
173 \else
174     \mbox{} %
175     \newpage
176 \fi
177 \hbox to\textwidth{%
178     \vbox{\vsplit\ParallelRBox to.98\textheight}%
179 }%
180 \fi
181 \vspace*{\fill}%
182 \newpage
183 \fi
184 \ifvoid\ParallelLBox
185     \ifvoid\ParallelRBox
186         \global\ParallelBoolVar=\z@
187     \fi
188 \fi
189 \ifnum\ParallelBoolVar=\@ne
190 \repeat
191 \par
192 \endgroup
193 \fi
194 }{%
```

Additional fixes:

- Unnecessary white space removed.
- \ifodd\thepage changed to \ifodd\value{page}.

```

195 \ifnum\ParallelBoolVar=\@ne
196 \par
197 \begingroup
198     \global\ParallelWhichBox=\@ne
199     \newpage
200     \vbadness=10000 %
201     \vfuzz=3ex %
202     \splittopskip=\z@skip
203     \loop%
204         \ifnum\ParallelBoolVar=\@ne%
205             \ifnum\ParallelWhichBox=\@ne
206                 \ifvoid\ParallelLBox
207                     \mbox{}%
208                 \newpage
209             \else
210                 \global\ParallelWhichBox=\z@
211             \fi
212         \else
213             \ifvoid\ParallelRBox
214                 \null
215             \newpage
216         \else
217             \global\ParallelWhichBox=\@ne
218         \fi
219     \fi
220 \ifnum\ParallelWhichBox=\z@
221     \ifodd\value{page}%
222         \null
```

```

223         \newpage
224     \fi
225     \hbox to\textwidth{%
226         \pcp@SetCurrent{Left}%
227         \setbox\z@=\vsplit\ParallellBox to.98\textheight
228         \vbox to.98\textheight{%
229             \@texttop
230             \unvbox\z@
231             \@textbottom
232         }%
233     }%
234 \else
235     \ifodd\value{page}%
236     \else
237         \mbox{}%
238         \newpage
239     \fi
240     \hbox to\textwidth{%
241         \pcp@SetCurrent{Right}%
242         \setbox\z@=\vsplit\ParallellRBox to.98\textheight
243         \vbox to.98\textheight{%
244             \@texttop
245             \unvbox\z@
246             \@textbottom
247         }%
248     }%
249 \fi
250 \vspace*{\fill}%
251 \newpage
252 \fi
253 \ifvoid\ParallellBox
254 \ifvoid\ParallellRBox
255     \global\ParallelBoolVar=\z@
256 \fi
257 \fi
258 \ifnum\ParallelBoolVar=\@ne
259 \repeat
260 \par
261 \endgroup
262 \pcp@SetCurrent{}%
263 \fi
264 }

```

2.3 Color stack support

```

265 \RequirePackage{pdfcol}[2007/12/12]
266 \ifpdfcolAvailable
267 \else
268     \PackageInfo{pdfcolparallel}{%
269         Loading aborted, because color stacks are not available%
270     }%
271     \expandafter\endinput
272 \fi
273 \pdfcolInitStack{pcp@Left}
274 \pdfcolInitStack{pcp@Right}

```

\pcp@Box

```
275 \newbox\pcp@Box
```

\pcp@SwitchStack

```

276 \def\pcp@SwitchStack#1#2{%
277     \pdfcolSwitchStack{pcp@#1}%

```

```

278 \global\setbox\pcp@Box=\vbox to 0pt{%
279 \pdfcolSetCurrentColor
280 }%
281 \aftergroup\pcp@FixBox
282 \aftergroup#2%
283 }

```

\pcp@FixBox

```

284 \def\pcp@FixBox#1{%
285 \global\setbox#1=\vbox{%
286 \unvbox\pcp@Box
287 \unvbox#1%
288 }%
289 }

```

\pcp@SetCurrent

```

290 \def\pcp@SetCurrent#1{%
291 \ifx\\#1\\%
292 \pdfcolSetCurrent{}%
293 \else
294 \pdfcolSetCurrent{pcp@#1}%
295 \fi
296 }

```

2.4 Redefinitions

\ParallelParOnePage

```

297 \pcp@CmdCheckRedef\ParallelParOnePage{%
298 \ifnum\ParallelBoolVar=\@ne
299 \par
300 \begingroup
301 \leftmargin=\z@
302 \rightmargin=\z@
303 \parskip=\z@skip
304 \parindent=\z@
305 \vbadness=10000 %
306 \vfuzz=3ex %
307 \splittopskip=\z@skip
308 \loop
309 \ifnum\ParallelBoolVar=\@ne
310 \noindent
311 \hbox to\textwidth{%
312 \hskip\ParallelLeftMargin
313 \hbox to\ParallelTextWidth{%
314 \ifvoid\ParallelLBox
315 \hskip\ParallelLWidth
316 \else
317 \ParallelWhichBox=\z@
318 \vbox{%
319 \setbox\ParallelBoxVar
320 =\vsplit\ParallelLBox to\dp\strutbox
321 \unvbox\ParallelBoxVar
322 }%
323 \fi
324 \strut
325 \ifnum\ParallelBoolMid=\@ne
326 \hskip\ParallelMainMidSkip
327 \vrule
328 \else
329 \hss
330 \fi
331 \hss

```

```

332         \ifvoid\ParallelRBox
333         \hskip\ParallelRWidth
334     \else
335         \ParallelWhichBox=\@ne
336         \vbox{%
337             \setbox\ParallelBoxVar
338                 =\vsplit\ParallelRBox to\dp\strutbox
339             \unvbox\ParallelBoxVar
340         }%
341     \fi
342 }%
343 }%
344 \ifvoid\ParallelLBox
345     \ifvoid\ParallelRBox
346         \global\ParallelBoolVar=\z@
347     \fi
348 \fi%
349 \fi%
350 \ifnum\ParallelBoolVar=\@ne
351     \penalty\interlinepenalty
352     \repeat
353     \par
354 \endgroup
355 \fi
356 }{%
357 \ifnum\ParallelBoolVar=\@ne
358     \par
359     \begingroup
360         \leftmargin=\z@
361         \rightmargin=\z@
362         \parskip=\z@skip
363         \parindent=\z@
364         \vbadness=10000 %
365         \vfuzz=3ex %
366         \splittopskip=\z@skip
367     \loop
368         \ifnum\ParallelBoolVar=\@ne
369             \noindent
370             \hbox to\textwidth{%
371                 \hskip\ParallelLeftMargin
372                 \hbox to\ParallelTextWidth{%
373                     \ifvoid\ParallelLBox
374                         \hskip\ParallelLWidth
375                     \else
376                         \pcp@SetCurrent{Left}%
377                         \ParallelWhichBox=\z@
378                         \vbox{%
379                             \setbox\ParallelBoxVar
380                                 =\vsplit\ParallelLBox to\dp\strutbox
381                             \unvbox\ParallelBoxVar
382                         }%
383                     \fi
384                     \strut
385                     \ifnum\ParallelBoolMid=\@ne
386                         \hskip\ParallelMainMidSkip
387                     \vrule
388                 \else
389                     \hss
390                 \fi
391                 \hss
392             \ifvoid\ParallelRBox
393                 \hskip\ParallelRWidth

```

```

394         \else
395         \pcp@SetCurrent{Right}%
396         \ParallelWhichBox=\@ne
397         \vbox{%
398         \setbox\ParallelBoxVar
399         =\vsplit\ParallelRBox to\dp\strutbox
400         \unvbox\ParallelBoxVar
401         }%
402         \fi
403     }%
404 }%
405 \ifvoid\ParallelLBox
406 \ifvoid\ParallelRBox
407 \global\ParallelBoolVar=\z@
408 \fi
409 \fi%
410 \fi%
411 \ifnum\ParallelBoolVar=\@ne
412 \penalty\interlinepenalty
413 \repeat
414 \par
415 \endgroup
416 \pcp@SetCurrent{%
417 \fi
418 }
419 \end{package}

```

3 Test

The test file is a modified version of the file that Alexander Hirsch has posted in [de.comp.text.tex](http://groups.google.com/group/de.comp.text.tex/msg/6a759cf33bb071a5): “parallel.sty und farbiger Text”¹

```

420 \documentclass{article}
421 \usepackage{xcolor}
422 \usepackage{pdfcolparallel}[2008/08/11]
423 \begin{document}
424 \color{green}%
425 Green%
426 \begin{Parallel}{0.47\textwidth}{0.47\textwidth}%
427 \ParallelLText{%
428 \textcolor{red}%
429 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
430 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
431 }%
432 }%
433 \ParallelRText{%
434 \textcolor{blue}%
435 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
436 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
437 }%
438 }%
439 \end{Parallel}
440 \end{document}

```

¹Url: <http://groups.google.com/group/de.comp.text.tex/msg/6a759cf33bb071a5>

```

448 \ParallelPar
449 \ParallelLText{%
450     Default %
451     \color{red}%
452     Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
453     Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
454 }%
455 \ParallelRText{%
456     Default %
457     \color{blue}%
458     Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
459     Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
460 }%
461 \ParallelPar
462 \ParallelLText{%
463     \begin{enumerate}%
464     \item left text, left text, left text, left text, %
465         left text, left text, left text, left text,%
466     \item left text, left text, left text, left text, %
467         left text, left text, left text, left text.%
468     \end{enumerate}%
469 }%
470 \ParallelRText{%
471     \begin{enumerate}%
472     \item right text, right text, right text, right text, %
473         right text, right text, right text, right text.%
474     \item right text, right text, right text, right text, %
475         right text, right text, right text, right text.%
476     \end{enumerate}%
477 }%
478 \end{Parallel}%
479 \begin{Parallel}[p]{\textwidth}{\textwidth}%
480     \ParallelLText{%
481         \textcolor{red}{%
482             Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
483             Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
484             Foo bar bla bla bla.%
485         }%
486         \par
487         Und noch ein Absatz.%
488     }%
489     \ParallelRText{%
490         \textcolor{blue}{%
491             Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
492             Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
493             Foo bar bla bla bla.%
494         }%
495     }%
496 \end{Parallel}%
497 \begin{Parallel}[p]{\textwidth}{\textwidth}%
498     \ParallelLText{%
499         \rule{1pt}{.98\textheight}\Huge g%
500     }%
501     \ParallelRText{%
502         \rule{1pt}{.98\textheight}y%
503     }%
504 \end{Parallel}%
505 Green%
506 \end{document}
507 </test1>

```

4 Installation

4.1 Download

Package. This package is available on CTAN²:

[CTAN:macros/latex/contrib/oberdiek/pdfcolparallel.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/pdfcolparallel.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.

4.2 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/
```

4.3 Package installation

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

```
tex pdfcolparallel.dtx
```

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

| | |
|--|---|
| <code>pdfcolparallel.sty</code> | \rightarrow <code>tex/latex/oberdiek/pdfcolparallel.sty</code> |
| <code>pdfcolparallel.pdf</code> | \rightarrow <code>doc/latex/oberdiek/pdfcolparallel.pdf</code> |
| <code>test/pdfcolparallel-test1.tex</code> | \rightarrow <code>doc/latex/oberdiek/test/pdfcolparallel-test1.tex</code> |
| <code>pdfcolparallel.dtx</code> | \rightarrow <code>source/latex/oberdiek/pdfcolparallel.dtx</code> |

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`.

4.4 Refresh file name databases

If your \TeX distribution (te \TeX , mi \TeX , ...) relies on file name databases, you must refresh these. For example, te \TeX users run `texhash` or `mktextlsr`.

²<http://ftp.ctan.org/tex-archive/>

4.5 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 pdfcolparallel.pdf unpack_files output .
```

Unpacking with \LaTeX . 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{pdfcolparallel.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 `pdf \LaTeX` :

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

5 References

- [1] Matthias Eckermann: *The parallel-package*; 2003/04/13;
CTAN:macros/latex/contrib/parallel/.
- [2] Heiko Oberdiek: *The pdfcol package*; 2007/09/09;
CTAN:macros/latex/contrib/oberdiek/pdfcol.pdf.

6 History

[2007/09/09 v1.0]

- First version.

[2007/12/12 v1.1]

- Adds patch for setting `\linewidth` to fix bug in package `parallel`.
- Package `parallel` is also fixed if color stacks are not available.
- Bug fix, switched stacks now initialized with current color.
- Fix for package `parallel`: `\raggedbottom` is respected.

[2008/08/11 v1.2]

- Code is not changed.
- URLs updated.

7 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; numbers in roman refer to the code lines where the entry is used.

| Symbols | | I | |
|-------------------------------------|--|--------------------------------------|--|
| <code>\@PackageWarningNoLine</code> | 54 | <code>\ifnum</code> | 32, 103, 121, 138, 147, 148, 163, 189, 195, 204, 205, 220, 258, 298, 309, 325, 350, 357, 368, 385, 411 |
| <code>\@ifundefined</code> | 16 | <code>\ifodd</code> | 164, 172, 221, 235 |
| <code>\@one</code> | 103, 108, 121, 126, 138, 141, 147, 148, 160, 189, 195, 198, 204, 205, 217, 258, 298, 309, 325, 335, 350, 357, 368, 385, 396, 411 | <code>\ifpdfcolAvailable</code> | 266 |
| <code>\@nobreakfalse</code> | 83, 118 | <code>\ifvoid</code> | 149, 156, 184, 185, 206, 213, 253, 254, 314, 332, 344, 345, 373, 392, 405, 406 |
| <code>\@restorepar</code> | 69, 82, 100, 117 | <code>\ifx</code> | 12, 51, 291 |
| <code>\@textbottom</code> | 231, 246 | <code>\interlinepenalty</code> | 351, 412 |
| <code>\@texttop</code> | 229, 244 | <code>\item</code> | 464, 466, 472, 474 |
| <code>\@</code> | 291 | | |
| A | | L | |
| <code>\afterassignment</code> | 47, 78, 95, 113, 134 | <code>\leftmargin</code> | 301, 360 |
| <code>\aftergroup</code> | 22, 23, 33, 34, 38, 76, 92, 111, 131, 281, 282 | <code>\linewidth</code> | 90, 129 |
| <code>\AtEndDocument</code> | 421 | <code>\loop</code> | 146, 203, 308, 367 |
| B | | M | |
| <code>\begin</code> | 432, 435, 463, 471, 479, 497 | <code>\mbox</code> | 150, 157, 165, 174, 207, 237 |
| | | <code>\MessageBreak</code> | 55, 56, 57, 58 |
| C | | N | |
| <code>\color</code> | 433, 451, 457 | <code>\NeedsTeXFormat</code> | 2 |
| <code>\csname</code> | 12 | <code>\newbox</code> | 275 |
| <code>\currentgrouplevel</code> | 26, 32 | <code>\newpage</code> | 142, 151, 158, 166, 175, 182, 199, 208, 215, 223, 238, 251 |
| <code>\CurrentOption</code> | 6 | <code>\noindent</code> | 310, 369 |
| D | | <code>\null</code> | 214, 222 |
| <code>\DeclareOption</code> | 5 | | |
| <code>\documentclass</code> | 428 | | |
| <code>\dp</code> | 320, 338, 380, 399 | | |
| E | | P | |
| <code>\end</code> | 468, 476, 478, 496, 504, 506 | <code>\PackageInfo</code> | 268 |
| <code>\endcsname</code> | 12 | <code>\par</code> | 139, 191, 196, 260, 299, 353, 358, 414, 486 |
| <code>\endinput</code> | 271 | <code>\ParallelAfterText</code> | 76, 92, 111, 131 |
| <code>\everypar</code> | 68, 81, 99, 116 | <code>\ParallelBoolMid</code> | 325, 385 |
| F | | <code>\ParallelBoolVar</code> | 138, 147, 186, 189, 195, 204, 255, 258, 298, 309, 346, 350, 357, 368, 407, 411 |
| <code>\fill</code> | 181, 250 | <code>\ParallelBoxVar</code> | 319, 321, 337, 339, 379, 381, 398, 400 |
| <code>\footnote</code> | 72, 86, 104, 106, 122, 124 | <code>\ParallelCheckOpenBrace</code> | 78, 95, 113, 134 |
| G | | <code>\ParallelFNMode</code> | 103, 121 |
| <code>\g@addto@macro</code> | 35 | <code>\ParallelLBox</code> | 74, 88, 91, 149, 169, 184, 206, 227, 253, 314, 320, 344, 373, 380, 405 |
| <code>\gdef</code> | 17, 19, 20 | <code>\ParallelLeftMargin</code> | 312, 371 |
| H | | <code>\ParallelFootnote</code> | 72, 86, 106, 124 |
| <code>\hbadness</code> | 71, 85, 102, 120 | <code>\ParallelLText</code> | 67, 436, 449, 462, 480, 498 |
| <code>\hbox</code> | 168, 177, 225, 240, 311, 313, 370, 372 | <code>\ParallelLWidth</code> | 75, 89, 90, 315, 374 |
| <code>\hsize</code> | 75, 89, 110, 128 | <code>\ParallelMainMidSkip</code> | 326, 386 |
| <code>\hskip</code> | 312, 315, 326, 333, 371, 374, 386, 393 | <code>\ParallelPar</code> | 448, 461 |
| <code>\hss</code> | 329, 331, 389, 391 | <code>\ParallelParOnePage</code> | 297 |
| <code>\Huge</code> | 499 | <code>\ParallelParTwoPages</code> | 137 |

| | |
|---|--|
| <code>\ParallelRBox</code> | 109, 127, 130, 156, 178, 185, 213, 242, 254, 332, 338, 345, 392, 399, 406 |
| <code>\ParallelRFootnote</code> | 104, 122 |
| <code>\ParallelRText</code> | 98, 442, 455, 470, 489, 501 |
| <code>\ParallelRWidth</code> | 110, 128, 129, 333, 393 |
| <code>\ParallelTextWidth</code> | 313, 372 |
| <code>\ParallelWhichBox</code> | 73, 87, 108, 126, 141, 148, 153, 160, 163, 198, 205, 210, 217, 220, 317, 335, 377, 396 |
| <code>\parindent</code> | 304, 363 |
| <code>\parskip</code> | 303, 362 |
| <code>\PassoptionsToPackage</code> | 6 |
| <code>\pcp@Box</code> | 275, 278, 286 |
| <code>\pcp@cmd</code> | 46, 51, 53, 63 |
| <code>\pcp@CmdCheckRedef</code> | 44, 67, 98, 137, 297 |
| <code>\pcp@CmdDo</code> | 47, 50 |
| <code>\pcp@ColorPatch</code> | 11, 93, 132 |
| <code>\pcp@ColorResets</code> | 20, 22, 35 |
| <code>\pcp@FixBox</code> | 281, 284 |
| <code>\pcp@GroupLevel</code> | 26, 32 |
| <code>\pcp@OrgAfterGroup</code> | 33, 38 |
| <code>\pcp@OrgSetColor</code> | 24, 37, 40 |
| <code>\pcp@SetColor</code> | 25, 31 |
| <code>\pcp@SetCurrent</code> | 66, 226, 241, 262, 290, 376, 395, 416 |
| <code>\pcp@SwitchStack</code> | 65, 91, 130, 276 |
| <code>\pdfcolInitStack</code> | 273, 274 |
| <code>\pdfcolSetCurrent</code> | 292, 294 |
| <code>\pdfcolSetCurrentColor</code> | 279 |
| <code>\pdfcolSwitchStack</code> | 277 |
| <code>\penalty</code> | 351, 412 |
| <code>\ProcessOptions</code> | 8 |
| <code>\ProvidesPackage</code> | 3 |
| R | |
| <code>\repeat</code> | 190, 259, 352, 413 |
| <code>\RequirePackage</code> | 9, 10, 265 |
| <code>\reserved@a</code> | 48, 51 |
| <code>\rightmargin</code> | 302, 361 |
| <code>\rule</code> | 499, 502 |
| S | |
| <code>\set@color</code> | 24, 25 |
| <code>\setbox</code> | 74, 88, 109, 127, 227, 242, 278, 285, 319, 337, 379, 398 |
| <code>\space</code> | 57, 424 |
| <code>\splittopskip</code> | 145, 202, 307, 366 |
| <code>\strut</code> | 324, 384 |
| <code>\strutbox</code> | 320, 338, 380, 399 |
| T | |
| <code>\textcolor</code> | 437, 443, 481, 490 |
| <code>\textheight</code> | 169, 178, 227, 228, 242, 243, 499, 502 |
| <code>\textwidth</code> | 168, 177, 225, 240, 311, 370, 435, 479, 497 |
| <code>\the</code> | 26 |
| <code>\thepage</code> | 164, 172 |
| <code>\typeout</code> | 422, 423, 424, 425, 426 |
| U | |
| <code>\unvbox</code> | 230, 245, 286, 287, 321, 339, 381, 400 |
| <code>\usepackage</code> | 429, 430 |
| V | |
| <code>\value</code> | 221, 235 |
| <code>\vbadness</code> | 143, 200, 305, 364 |
| <code>\vbox</code> | 74, 88, 109, 127, 169, 178, 228, 243, 278, 285, 318, 336, 378, 397 |
| <code>\vfuzz</code> | 144, 201, 306, 365 |
| <code>\vrule</code> | 327, 387 |
| <code>\vspace</code> | 181, 250 |
| <code>\vsplit</code> | 169, 178, 227, 242, 320, 338, 380, 399 |
| X | |
| <code>\x</code> | 53, 55, 58, 79, 96, 114, 135 |
| Z | |
| <code>\z@</code> | 153, 163, 186, 210, 220, 227, 230, 242, 245, 255, 301, 302, 304, 317, 346, 360, 361, 363, 377, 407 |
| <code>\z@skip</code> | 145, 202, 303, 307, 362, 366 |