

The pdfcolparallel package

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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 Option <code>rulebetweencolor</code>	2
1.2 Future	2
2 Implementation	2
2.1 Identification	2
2.2 Load and fix package <code>parallel</code>	2
2.3 Color stack support	7
2.4 Redefinitions	7
3 Installation	10
3.1 Download	10
3.2 Bundle installation	10
3.3 Package installation	10
3.4 Refresh file name databases	11
3.5 Some details for the interested	11
4 References	11
5 History	11
[2007/09/09 v1.0]	11
[2007/12/12 v1.1]	12
[2008/08/11 v1.2]	12
[2010/01/11 v1.3]	12
[2016/05/16 v1.4]	12
[2019/12/29 v1.5]	12
6 Index	12

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.

*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

1.1 Option `rulebetweencolor`

Package `pdfcolparallel` also fixes the color for the rule between columns. Default color is `\normalcolor`. But this can be changed by using option `rulebetweencolor` for `\setkeys{parallel}` (see package `keyval`). The option takes a color specification as value. If the value is empty, then the default (`\normalcolor`) is used. Examples:

```
\setkeys{parallel}{rulebetweencolor=blue},
\setkeys{parallel}{rulebetweencolor={red}},
\setkeys{parallel}{rulebetweencolor={}}, % \normalcolor is
used
\setkeys{parallel}{rulebetweencolor=[rgb]{1,0,.5}}
```

1.2 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 [2019/12/29 v1.5 Color stacks support for parallel (H0)]%
```

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=\ParallelLFootnote
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=\ParallelLFootnote
```

```

87   \ParallelWhichBox=0 %
88   \global\setbox\ParallellLBox=\vbox\bgroup
89     \hsize=\ParallellLWidth
90     \linewidth=\ParallellLWidth
91     \pcp@SwitchStack{Left}\ParallellLBox
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        \@nbreakfalse
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\ParallelRBox 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\ParallelRBox
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 Opt{%
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 \begingroup
388 \pcp@RuleBetweenColor
389 \vrule
390 \endgroup
391 \else
392 \hss
393 \fi
394 \hss
395 \ifvoid\ParallelRBox
396 \hskip\ParallelRWidth
397 \else
398 \pcp@SetCurrent{Right}%
399 \ParallelWhichBox=\@ne
400 \vbox{%
401 \setbox\ParallelBoxVar
402 =\vsplit\ParallelRBox to\dp\strutbox
403 \unvbox\ParallelBoxVar
404 }%
405 \fi
406 }%
407 }%
408 \ifvoid\ParallelLBox
409 \ifvoid\ParallelRBox
410 \global\ParallelBoolVar=\z@
411 \fi
412 \fi%
413 \fi%
414 \ifnum\ParallelBoolVar=\@ne
415 \penalty\interlinepenalty
416 \repeat
417 \par
418 \endgroup
419 \pcp@SetCurrent{}%
420 \fi
421 }

```

\pcp@RuleBetweenColorDefault

```

422 \def\pcp@RuleBetweenColorDefault{%
423 \normalcolor
424 }

```

\pcp@RuleBetweenColor

```

425 \let\pcp@RuleBetweenColor\pcp@RuleBetweenColorDefault
426 \RequirePackage{keyval}
427 \define@key{parallel}{rulebetweencolor}{%
428 \edef\pcp@temp{#1}%
429 \ifx\pcp@temp\@empty
430 \let\pcp@RuleBetweenColor\pcp@RuleBetweenColorDefault
431 \else
432 \edef\pcp@temp{%

```

```

433     \noexpand@ifnextchar [{%
434     \def\noexpand\pcp@RuleBetweenColor{%
435     \noexpand\color\pcp@temp
436     }%
437     \noexpand\pcp@GobbleNil
438     }{%
439     \def\noexpand\pcp@RuleBetweenColor{%
440     \noexpand\color{\pcp@temp}%
441     }%
442     \noexpand\pcp@GobbleNil
443     }%
444     \pcp@temp\noexpand\@nil
445     }%
446     \pcp@temp
447 \fi
448 }

```

\pcp@GobbleNil

```

449 \long\def\pcp@GobbleNil#1\@nil{}
450 </package>

```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

[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 T_EX Files” ([CTAN:pkg/tds](#)). 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
```

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 pdfcolparallel.dtx
```

¹[CTAN:pkg/pdfcolparallel](#)

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

```
pdfcolparallel.sty → tex/latex/oberdiek/pdfcolparallel.sty
pdfcolparallel.pdf → doc/latex/oberdiek/pdfcolparallel.pdf
pdfcolparallel.dtx → source/latex/oberdiek/pdfcolparallel.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 (`TEX Live`, `MiKTEX`, ...) relies on file name databases, you must refresh these. For example, `TEX Live` users run `texhash` or `mktextlsr`.

3.5 Some details for the interested

Unpacking with L^AT_EX. The `.dtx` chooses its action depending on the format:

plain T_EX: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), 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 pdfL^AT_EX:

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

4 References

- [1] Matthias Eckermann: *The parallel-package*; 2003/04/13;
[CTAN:pkg/parallel](#).
- [2] Heiko Oberdiek: *The pdfcol package*; 2007/09/09;
[CTAN:pkg/pdfcol](#).

5 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.

[2010/01/11 v1.3]

- Option ‘`rulebetweencolor`’ added.

[2016/05/16 v1.4]

- Documentation updates.

[2019/12/29 v1.5]

- `\PassOptionsToPackage` not `\PassoptionsToPackage`

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	D
<code>\@PackageWarningNoLine</code> 54	<code>\DeclareOption</code> 5
<code>\@empty</code> 429	<code>\define@key</code> 427
<code>\@ifnextchar</code> 433	<code>\dp</code> 320, 338, 380, 402
<code>\@ifundefined</code> 16	
<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, 399, 414	E
<code>\@nil</code> 444, 449	<code>\endcsname</code> 12
<code>\@nobreakfalse</code> 83, 118	<code>\endinput</code> 271
<code>\@restorepar</code> 69, 82, 100, 117	<code>\everypar</code> 68, 81, 99, 116
<code>\@textbottom</code> 231, 246	F
<code>\@texttop</code> 229, 244	<code>\fill</code> 181, 250
<code>\@</code> 291	<code>\footnote</code> . . . 72, 86, 104, 106, 122, 124
A	G
<code>\afterassignment</code> . 47, 78, 95, 113, 134	<code>\g@addto@macro</code> 35
<code>\aftergroup</code> 22, 23, 33, 34, 38, 76, 92, 111, 131, 281, 282	<code>\gdef</code> 17, 19, 20
C	H
<code>\color</code> 435, 440	<code>\hbadness</code> 71, 85, 102, 120
<code>\csname</code> 12	<code>\hbox</code> 168, 177, 225, 240, 311, 313, 370, 372
<code>\currentgrouplevel</code> 26, 32	<code>\hsize</code> 75, 89, 110, 128
<code>\CurrentOption</code> 6	<code>\hskip</code> 312, 315, 326, 333, 371, 374, 386, 396
	<code>\hss</code> 329, 331, 392, 394

I	
<code>\ifnum</code>	32, 103, 121, 138, 147, 148, 163, 189, 195, 204, 205, 220, 258, 298, 309, 325, 350, 357, 368, 385, 414
<code>\ifodd</code>	164, 172, 221, 235
<code>\ifpdfcolAvailable</code>	266
<code>\ifvoid</code>	149, 156, 184, 185, 206, 213, 253, 254, 314, 332, 344, 345, 373, 395, 408, 409
<code>\ifx</code>	12, 51, 291, 429
<code>\interlinepenalty</code>	351, 415
L	
<code>\leftmargin</code>	301, 360
<code>\linewidth</code>	90, 129
<code>\loop</code>	146, 203, 308, 367
M	
<code>\mbox</code>	150, 157, 165, 174, 207, 237
<code>\MessageBreak</code>	55, 56, 57, 58
N	
<code>\NeedsTeXFormat</code>	2
<code>\newbox</code>	275
<code>\newpage</code> ..	142, 151, 158, 166, 175, 182, 199, 208, 215, 223, 238, 251
<code>\noindent</code>	310, 369
<code>\normalcolor</code>	423
<code>\null</code>	214, 222
P	
<code>\PackageInfo</code>	268
<code>\par</code> 139, 191, 196, 260, 299, 353, 358, 417	
<code>\ParallelAfterText</code> ...	76, 92, 111, 131
<code>\ParallelBoolMid</code>	325, 385
<code>\ParallelBoolVar</code> ..	138, 147, 186, 189, 195, 204, 255, 258, 298, 309, 346, 350, 357, 368, 410, 414
<code>\ParallelBoxVar</code>	319, 321, 337, 339, 379, 381, 401, 403
<code>\ParallelCheckOpenBrace</code>	78, 95, 113, 134
<code>\ParallelFNMode</code>	103, 121
<code>\ParallelLBox</code>	74, 88, 91, 149, 169, 184, 206, 227, 253, 314, 320, 344, 373, 380, 408
<code>\ParallelLeftMargin</code>	312, 371
<code>\ParallelLFootnote</code> ...	72, 86, 106, 124
<code>\ParallelLText</code>	67
<code>\ParallelLWidth</code> ..	75, 89, 90, 315, 374
<code>\ParallelMainMidSkip</code>	326, 386
<code>\ParallelParOnePage</code>	297
<code>\ParallelParTwoPages</code>	137
<code>\ParallelRBox</code>	109, 127, 130, 156, 178, 185, 213, 242, 254, 332, 338, 345, 395, 402, 409
<code>\ParallelRFootnote</code>	104, 122
<code>\ParallelRText</code>	98
<code>\ParallelRWidth</code> 110, 128, 129, 333, 396	
<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, 399
<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@GobbleNil</code>	437, 442, 449
<code>\pcp@GroupLevel</code>	26, 32
<code>\pcp@OrgAfterGroup</code>	33, 38
<code>\pcp@OrgSetColor</code>	24, 37, 40
<code>\pcp@RuleBetweenColor</code>	388, 425, 430, 434, 439
<code>\pcp@RuleBetweenColorDefault</code> ...	422, 425, 430
<code>\pcp@SetColor</code>	25, 31
<code>\pcp@SetCurrent</code>	66, 226, 241, 262, 290, 376, 398, 419
<code>\pcp@SwitchStack</code>	65, 91, 130, 276
<code>\pcp@temp</code>	428, 429, 432, 435, 440, 444, 446
<code>\pdfcolInitStack</code>	273, 274
<code>\pdfcolSetCurrent</code>	292, 294
<code>\pdfcolSetCurrentColor</code>	279
<code>\pdfcolSwitchStack</code>	277
<code>\penalty</code>	351, 415
<code>\ProcessOptions</code>	8
<code>\ProvidesPackage</code>	3
R	
<code>\repeat</code>	190, 259, 352, 416
<code>\RequirePackage</code>	9, 10, 265, 426
<code>\reserved@a</code>	48, 51
<code>\rightmargin</code>	302, 361
S	
<code>\set@color</code>	24, 25
<code>\setbox</code>	74, 88, 109, 127, 227, 242, 278, 285, 319, 337, 379, 401
<code>\space</code>	57
<code>\splittopskip</code>	145, 202, 307, 366
<code>\strut</code>	324, 384
<code>\strutbox</code>	320, 338, 380, 402
T	
<code>\textheight</code> 169, 178, 227, 228, 242, 243	
<code>\textwidth</code> 168, 177, 225, 240, 311, 370	
<code>\the</code>	26
<code>\thepage</code>	164, 172
U	
<code>\unvbox</code>	230, 245, 286, 287, 321, 339, 381, 403
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, 400	X	<code>\x</code>	53, 55, 58, 79, 96, 114, 135
<code>\vfuzz</code>	144, 201, 306, 365	Z		
<code>\vrule</code>	327, 389	<code>\z@</code>	153, 163, 186, 210, 220, 227, 230, 242, 245, 255, 301, 302, 304, 317, 346, 360, 361, 363, 377, 410	
<code>\vspace</code>	181, 250	<code>\z@skip</code>	145, 202, 303, 307, 362, 366	
<code>\vsplit</code>	169, 178, 227, 242, 320, 338, 380, 402			