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 $pdfT_EX$ since version 1.40.

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^{*}Please report any issues at https://github.com/ho-tex/oberdiek/issues

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 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:

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 \langle *package \rangle
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pdfcolparallel}%
4 [2019/12/29 v1.5 Color stacks support for parallel (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
                                                                        }{%
                                                                               \gdef\pcp@ColorPatch{%
                                                        19
                                                        20
                                                                                    \gdef\pcp@ColorResets{}%
                                                        21
                                                                                     \bgroup
                                                        22
                                                                                     \aftergroup\pcp@ColorResets
                                                        23
                                                                                     \aftergroup\egroup
                                                                                     \let\pcp@OrgSetColor\set@color
                                                        24
                                                                                     \let\set@color\pcp@SetColor
                                                        25
                                                                                     \edef\pcp@GroupLevel{\the\currentgrouplevel}%
                                                        26
                                                                               }%
                                                        27
                                                        28
                                                                         }%
                                                                         \pcp@ColorPatch
                                                        29
                                                        30
                                                                   }%
             \pcp@SetColor
                                                        31
                                                                    \def\pcp@SetColor{%
                                                                         \ifnum\pcp@GroupLevel=\currentgrouplevel
                                                        32
                                                                               \let\pcp@OrgAfterGroup\aftergroup
                                                        33
                                                                               \def\aftergroup{%
                                                        34
                                                        35
                                                                                     \g@addto@macro\pcp@ColorResets
                                                        36
                                                                               \pcp@OrgSetColor
                                                        37
                                                                               \verb|\label{lem:coup|pcp@OrgAfterGroup|} \label{lem:coup} $$ \label
                                                        38
                                                        39
                                                                               \pcp@OrgSetColor
                                                        40
                                                                         \fi
                                                        41
                                                                 }%
                                                        42
                                                        43 \fi
\pcp@CmdCheckRedef
                                                        44 \def\pcp@CmdCheckRedef#1{%
                                                        45
                                                                    \begingroup
                                                                         \def\pcp@cmd{#1}%
                                                        46
                                                                         \afterassignment\pcp@CmdDo
                                                        47
                                                                         \long\def\reserved@a
                                                        48
                                                        49 }
                                                        50 \def\pcp@CmdDo{%
                                                        51
                                                                         \expandafter\ifx\pcp@cmd\reserved@a
                                                        52
                                                                               \edef\x*{\expandafter\string\pcp@cmd}%
                                                        53
                                                                               \@PackageWarningNoLine{pdfcolparallel}{%
                                                        54
                                                                                    Command \x* has changed.\MessageBreak
                                                        55
                                                        56
                                                                                    Supported versions of package 'parallel':\MessageBreak
                                                                                     \space\space 2003/04/13\MessageBreak
                                                        57
                                                                                    The redefinition of \x* may\MessageBreak
                                                        58
                                                                                    not behave correctly depending on the changes%
                                                        59
                                                                              }%
                                                        60
                                                                         \fi
                                                        61
                                                                    \expandafter\endgroup
                                                        63
                                                                    \expandafter\def\pcp@cmd
                                                        64 }
                                                        65 \def\pcp@SwitchStack#1#2{}
                                                        66 \def\pcp@SetCurrent#1{}
          \ParallelLText
                                                        67 \verb|\pcp@CmdCheckRedef\ParallelLText{%}|
                                                                 \everypar{}%
```

```
69
                      \@restorepar
                      \begingroup
                  70
                        \hbadness=3000 %
                  71
                        \let\footnote=\ParallelLFootnote
                  72
                  73
                        \ParallelWhichBox=0 %
                        \global\setbox\ParallelLBox=\vbox\bgroup
                  74
                           \hsize=\ParallelLWidth
                  75
                           \aftergroup\ParallelAfterText
                  76
                  77
                           \begingroup
                             \afterassignment\ParallelCheckOpenBrace
                  78
                  79
                  80 }{%
                  81
                      \everypar{}%
                      \@restorepar
                  82
                      \@nobreakfalse
                  83
                  84
                      \begingroup
                        \hbadness=3000 %
                  85
                        \let\footnote=\ParallelLFootnote
                        \ParallelWhichBox=0 %
                  87
                        \global\setbox\ParallelLBox=\vbox\bgroup
                  88
                           \hsize=\ParallelLWidth
                  89
                           \linewidth=\ParallelLWidth
                  90
                           \pcp@SwitchStack{Left}\ParallelLBox
                  91
                  92
                           \aftergroup\ParallelAfterText
                           \pcp@ColorPatch
                  93
                  94
                           \begingroup
                             \afterassignment\ParallelCheckOpenBrace
                  95
                  96
                             \left| x=\right|
                  97 }
\ParallelRText
                  98 \pcp@CmdCheckRedef\ParallelRText{%
                      \everypar{}%
                 100
                      \@restorepar
                 101
                      \begingroup
                        \hbadness=3000 %
                 102
                        \ifnum\ParallelFNMode=\@ne
                 103
                           \let\footnote=\ParallelRFootnote
                 104
                 105
                        \else
                           \let\footnote=\ParallelLFootnote
                 106
                 107
                        \ParallelWhichBox=\@ne
                 108
                        \global\setbox\ParallelRBox=\vbox\bgroup
                 109
                           \hsize=\ParallelRWidth
                 110
                 111
                           \aftergroup\ParallelAfterText
                 112
                           \begingroup
                 113
                             \afterassignment\ParallelCheckOpenBrace
                 114
                             \left| x=\right|
                 115 }{%
                 116
                      \everypar{}%
                 117
                      \@restorepar
                 118
                      \@nobreakfalse
                      \begingroup
                 119
                        \hbadness=3000 %
                 120
                        \ifnum\ParallelFNMode=\@ne
                 121
                           \let\footnote=\ParallelRFootnote
                 122
                        \else
                 123
                           \let\footnote=\ParallelLFootnote
                 124
```

```
125
                                \fi
                                \ParallelWhichBox=\@ne
                        126
                                \global\setbox\ParallelRBox=\vbox\bgroup
                        127
                                  \hsize=\ParallelRWidth
                        128
                        129
                                  \linewidth=\ParallelRWidth
                                  \pcp@SwitchStack{Right}\ParallelRBox
                        130
                                  \aftergroup\ParallelAfterText
                        131
                        132
                                  \pcp@ColorPatch
                                  \begingroup
                        133
                                    \afterassignment\ParallelCheckOpenBrace
                        134
                        135
                        136 }
\ParallelParTwoPages
                        137 \pcp@CmdCheckRedef\ParallelParTwoPages{%
                             \ifnum\ParallelBoolVar=\@ne
                        138
                        139
                                \par
                        140
                                \begingroup
                        141
                                  \global\ParallelWhichBox=\@ne
                        142
                                  \newpage
                        143
                                  \vbadness=10000 %
                                  \vfuzz=3ex %
                        144
                                  \splittopskip=\z@skip
                        145
                        146
                                  \loop%
                                    \ifnum\ParallelBoolVar=\@ne%
                        147
                                      \ifnum\ParallelWhichBox=\@ne
                        148
                                        \ifvoid\ParallelLBox
                        149
                                           \mbox{} %
                        150
                                           \newpage
                        151
                                        \else
                        152
                                           \global\ParallelWhichBox=\z@
                        153
                                        \fi
                        154
                                      \else
                        155
                        156
                                        \ifvoid\ParallelRBox
                        157
                                           \mbox{} %
                                           \newpage
                        158
                        159
                                        \else
                                           \global\ParallelWhichBox=\@ne
                        160
                                        \fi
                        161
                        162
                                      \ifnum\ParallelWhichBox=\z@
                        163
                                        \ifodd\thepage
                        164
                                           \mathbb{\mbox} %
                        165
                                           \newpage
                        166
                        167
                                        \hbox to\textwidth{%
                        168
                        169
                                          \vbox{\vsplit\ParallelLBox to.98\textheight}%
                                        }%
                        170
                                      \else
                        171
                                        \ifodd\thepage\relax
                        172
                        173
                                        \else
                        174
                                           \mbox{} %
                        175
                                           \newpage
                        176
                                        \hbox to\textwidth{%
                        177
                                           \vbox{\vsplit\ParallelRBox to.98\textheight}%
                        178
                                        }%
                        179
                                      \fi
                        180
```

```
\vspace*{\left\{ \right\} }
181
               \newpage
182
183
             \fi
             \ifvoid\ParallelLBox
184
               \ifvoid\ParallelRBox
185
                 \global\ParallelBoolVar=\z@
186
               \fi
187
             \fi
188
          \ifnum\ParallelBoolVar=\@ne
189
190
          \repeat
191
          \par
192
        \endgroup
193
     \fi
194 }{%
```

Additional fixes:

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

```
\ifnum\ParallelBoolVar=\@ne
195
196
        \par
197
        \begingroup
          \global\ParallelWhichBox=\@ne
198
          \newpage
199
          \vbadness=10000 %
200
201
          \vfuzz=3ex %
202
          \splittopskip=\z@skip
          \loop%
203
            \ifnum\ParallelBoolVar=\@ne%
204
              \ifnum\ParallelWhichBox=\@ne
205
                \ifvoid\ParallelLBox
206
                   \mathbb{\}
207
208
                   \newpage
209
                   \global\ParallelWhichBox=\z@
210
                \fi
211
              \else
212
                \ifvoid\ParallelRBox
213
214
                   \null
215
                   \newpage
                \else
216
                   \global\ParallelWhichBox=\@ne
217
                \fi
218
              \fi
219
              \ifnum\ParallelWhichBox=\z@
^{220}
                \ifodd\value{page}%
221
222
                   \null
                   \newpage
223
                \fi
224
                \hbox to\textwidth{%
225
                   \pcp@SetCurrent{Left}%
226
                   \setbox\z@=\vsplit\ParallelLBox to.98\textheight
227
228
                   \vbox to.98\textheight{%
                     \@texttop
229
                     \unvbox\z@
230
                     \@textbottom
231
                  }%
232
                }%
233
```

```
234
                                   \else
                                     \ifodd\value{page}%
                    235
                    236
                                     \else
                    237
                                        \mathbb{\mbox}
                    238
                                        \newpage
                    239
                                     \fi
                                     \hbox to\textwidth{%
                    240
                                        \pcp@SetCurrent{Right}%
                    241
                                        \setbox\z@=\vsplit\ParallelRBox to.98\textheight
                    242
                                        \vbox to.98\textheight{%
                    243
                                          \@texttop
                                          245
                    246
                                          \@textbottom
                    247
                                       }%
                                     }%
                    248
                    ^{249}
                                   \fi
                                   \\ensuremath{\mbox{vspace*{\fill}}}
                    250
                    251
                                   \newpage
                                 \fi
                    252
                                 \ifvoid\ParallelLBox
                    253
                                   \ifvoid\ParallelRBox
                    254
                                     \global\ParallelBoolVar=\z@
                    255
                                   \fi
                    256
                    257
                                 \fi
                              \ifnum\ParallelBoolVar=\@ne
                    258
                    259
                              \repeat
                    260
                              \par
                    261
                            \endgroup
                    ^{262}
                            \pcp@SetCurrent{}%
                    263
                          \fi
                    264 }
                    2.3
                           Color stack support
                    265 \RequirePackage{pdfcol}[2007/12/12]
                    267 \ensuremath{\setminus} \text{else}
                          \PackageInfo{pdfcolparallel}{%
                    268
                            Loading aborted, because color stacks are not available%
                    269
                    270
                    271
                          \expandafter\endinput
                    272 \fi
                    273 \pdfcolInitStack{pcp@Left}
                    274 \verb|\pdfcolInitStack{pcp@Right}|
        \pcp@Box
                    275 \newbox\pcp@Box
\pcp@SwitchStack
                    276 \def\pcp@SwitchStack#1#2{%
                          \pdfcolSwitchStack{pcp@#1}%
                    277
                          \label{local_pcp@Box=\vbox to 0pt{%}} $$ \global\setbox\pcp@Box=\vbox to 0pt{%} $$
                    278
                            \pdfcolSetCurrentColor
                    279
                    280
                          \aftergroup\pcp@FixBox
                    281
                          \aftergroup#2\%
                    282
                    283 }
```

```
\pcp@FixBox
                  284 \def\pcp@FixBox#1{%
                       \global\setbox#1=\vbox{%
                         \unvbox\pcp@Box
                  287
                         \unvbox#1%
                  288
                      }%
                 289 }
\pcp@SetCurrent
                  290 \def\pcp@SetCurrent#1{%
                       \ifx\\#1\\%
                  292
                         \pdfcolSetCurrent{}%
                  293
                       \else
                  294
                         \pdfcolSetCurrent{pcp@#1}%
                       \fi
                  295
                 296 }
```

2.4 Redefinitions

\ParallelParOnePage

```
297 \verb|\pcp@CmdCheckRedef\ParallelParOnePage{%}|
     \ifnum\ParallelBoolVar=\@ne
299
        \par
300
        \begingroup
301
          \leftmargin=\z0
          \rightmargin=\z@
302
          \parskip=\z@skip
303
          \parindent=\z0
304
          \vbadness=10000 %
305
          \vfuzz=3ex %
306
          \splittopskip=\z@skip
307
308
            \ifnum\ParallelBoolVar=\@ne
309
              \noindent
310
              \hbox to\textwidth{%
311
                \hskip\ParallelLeftMargin
312
313
                \hbox to\ParallelTextWidth{%
314
                  \ifvoid\ParallelLBox
                     \hskip\ParallelLWidth
315
                  \else
316
                     \ParallelWhichBox=\z@
317
                     \vbox{%
318
                       \setbox\ParallelBoxVar
319
320
                           =\vsplit\ParallelLBox to\dp\strutbox
                       \unvbox\ParallelBoxVar
321
322
                    }%
                  \fi
323
                  \strut
324
                  \ifnum\ParallelBoolMid=\@ne
325
326
                     \hskip\ParallelMainMidSkip
327
                     \vrule
328
                  \else
                     \hss
329
                  \fi
330
                  \hss
331
332
                  \ifvoid\ParallelRBox
333
                     \hskip\ParallelRWidth
```

```
334
                                                           \else
                                                                 \ParallelWhichBox=\@ne
335
336
                                                                 \vbox{%
                                                                        \setbox\ParallelBoxVar
337
338
                                                                                      =\vsplit\ParallelRBox to\dp\strutbox
                                                                        \unvbox\ParallelBoxVar
339
                                                                 }%
340
                                                          \fi
341
                                                   }%
342
                                            }%
343
344
                                            \ifvoid\ParallelLBox
                                                    \ifvoid\ParallelRBox
345
                                                           \global\ParallelBoolVar=\z@
346
                                                    \fi
347
                                            \fi%
348
                                      \fi%
349
                               \ifnum\ParallelBoolVar=\@ne
350
351
                                       \penalty\interlinepenalty
352
                               \repeat
                               \par
353
                        \endgroup
354
                 \fi
355
356 }{%
357
                 \ifnum\ParallelBoolVar=\@ne
358
359
                        \begingroup
360
                               \label{leftmargin=} $$ \left( \sum_{i=1}^{n} z_i \right) = \sum_{i=1}^{n} z_i =
361
                               \rightmargin=\z@
362
                               \parskip=\z@skip
363
                               \parindent=\z@
364
                               \vbadness=10000 %
365
                               \vfuzz=3ex %
                               \splittopskip=\z@skip
366
                               \loop
367
                                      \ifnum\ParallelBoolVar=\@ne
368
                                             \noindent
369
370
                                            \hbox to\textwidth{%
                                                    \hskip\ParallelLeftMargin
371
372
                                                    \hbox to\ParallelTextWidth{%
                                                           \ifvoid\ParallelLBox
373
                                                                 \hskip\ParallelLWidth
374
375
                                                           \else
                                                                 \pcp@SetCurrent{Left}%
376
377
                                                                 \ParallelWhichBox=\z@
378
                                                                 \vbox{%
                                                                        \setbox\ParallelBoxVar
379
                                                                                      =\vsplit\ParallelLBox to\dp\strutbox
380
                                                                        \unvbox\ParallelBoxVar
381
                                                                 }%
382
383
                                                           \fi
                                                           \strut
384
385
                                                           \ifnum\ParallelBoolMid=\@ne
386
                                                                 \hskip\ParallelMainMidSkip
387
                                                                 \begingroup
                                                                        \pcp@RuleBetweenColor
388
389
                                                                        \vrule
390
                                                                 \endgroup
391
                                                           \else
```

```
\hss
                                                  \fi
                                393
                                394
                                                  \hss
                                                  \ifvoid\ParallelRBox
                                395
                                                     \hskip\ParallelRWidth
                                396
                                397
                                                     \pcp@SetCurrent{Right}%
                                398
                                                     \ParallelWhichBox=\@ne
                                399
                                                     \vbox{%
                                400
                                                       \setbox\ParallelBoxVar
                                401
                                402
                                                           =\vsplit\ParallelRBox to\dp\strutbox
                                                       \unvbox\ParallelBoxVar
                                403
                                404
                                                    }%
                                405
                                                  \fi
                                                }%
                                406
                                              }%
                                407
                                              \ifvoid\ParallelLBox
                                408
                                409
                                                \ifvoid\ParallelRBox
                                                   \global\ParallelBoolVar=\z@
                                410
                                                \fi
                                411
                                              \fi%
                                412
                                            \fi%
                                413
                                          \ifnum\ParallelBoolVar=\@ne
                                414
                                415
                                            \penalty\interlinepenalty
                                416
                                          \repeat
                                417
                                          \par
                                418
                                        \endgroup
                                        \pcp@SetCurrent{}%
                                419
                                420
                                     \fi
                                421 }
\pcp@RuleBetweenColorDefault
                                422 \def\pcp@RuleBetweenColorDefault{%
                                     \normalcolor
                                424 }
       \pcp@RuleBetweenColor
                                425 \let\pcp@RuleBetweenColor\pcp@RuleBetweenColorDefault
                                426 \RequirePackage{keyval}
                                427 \define@key{parallel}{rulebetweencolor}{%
                                     \edef\pcp@temp{#1}%
                                428
                                     \ifx\pcp@temp\@empty
                                429
                                        \let\pcp@RuleBetweenColor\pcp@RuleBetweenColorDefault
                                430
                                431
                                     \else
                                432
                                        \edef\pcp@temp{%
                                433
                                          \noexpand\@ifnextchar[{%
                                            \def\noexpand\pcp@RuleBetweenColor{%
                                434
                                435
                                              \noexpand\color\pcp@temp
                                            }%
                                436
                                            \noexpand\pcp@GobbleNil
                                437
                                438
                                439
                                            \def\noexpand\pcp@RuleBetweenColor{%
                                              \noexpand\color{\pcp@temp}%
                                440
                                            }%
                                441
                                            \noexpand\pcp@GobbleNil
                                442
                                          }%
                                443
                                444
                                          \pcp@temp\noexpand\@nil
```

392

```
445 }%

446 \pcp@temp

447 \fi

448 }

449 \long\def\pcp@GobbleNil#1\@nil{}
```

3 Installation

3.1 Download

450 (/package)

\pcp@GobbleNil

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 TEX 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_FX:

```
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):

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

¹CTAN:pkg/pdfcolparallel

3.4 Refresh file name databases

If your T_EX distribution (T_EX Live, MiKT_EX, ...) relies on file name databases, you must refresh these. For example, T_EX Live users run texhash or mktexlsr.

3.5 Some details for the interested

Unpacking with LATEX. The .dtx chooses its action depending on the format:

plain T_EX: 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 pdfIAT_FX:

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

 \bullet Option 'rule betweencolor' added.

[2016/05/16 v1.4]

• Documentation updates.

[2019/12/29 v1.5]

• \PassOptionsToPackage not \PassoptionsToPackage

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