The pagesel package

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Abstract

Single pages or page areas can be selected for output.

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

1 Usage

The package pagesel is a LATEX 2ε package:

```
\usepackage[\langle options \rangle] \{pagesel\}
```

(For plainT_EX and L^AT_EX 2.09 the similar package selectp¹ from Donald Arsenau² can be used.)

Depending on the options the package works in two modes:

- 1. If no page selecting option is present, so the package ignores the other options and finishes itself. So no page will be suppressed by the package and auxiliary files will be written.
- 2. With at least one page selecting option the specified pages are selected and the other are suppressed. The default for this mode is that auxiliary will not be overwritten. (This can be changed by an option.)

1.1 Page selecting

The package pagesel sets up a new counter that is incremented by each \shipout. In this way the package counts the output pages regardless the value of the page counter. So each page can individually by addressed, even if there are several pages with the same page number.

1.1.1 Options for selecting pages

odd: The output pages must have an odd number. All even output pages are suppressed. If there are no page areas specified so all odd pages are print. With page areas only the odd pages in this areas are selected.

even: The opposite of option odd.

Page area: A page area consists of three elements: the starting output page number, an "area" hyphen, and the output page number of the last page in this area. Each component is optional, so there are four kinds to spezify a page area:

 $\langle m \rangle - \langle n \rangle$: All pages between $\langle m \rangle$ and $\langle n \rangle$ inclusive.

 $-\langle n \rangle$: All pages until $\langle n \rangle$ inclusive.

 $\langle m \rangle$: The page area starts with $\langle m \rangle$ and all pages to the end of document are selected.

-: All pages (not very useful).

 $\langle s \rangle$: The single page $\langle s \rangle$.

1.1.2 Examples

Options	Output pages
[1, 4, 9]	1, 4, and 9
[7-10, 3]	3, 7, 8, 9, and 10
[odd, 3-6]	3, and 5
[-4, 3, even, 7-8]	2, 4, and 8

¹Url: https://ctan.org/pkg/selectp

²Donald Arsenau's email address: asnd@triumf.ca

1.2 Auxiliary files

If a page is suppressed, the \write commands are not performed. Labels, index entries, or entries for the table of contents aren't written. So it is likely that the table of contents, registers, and lists are incomplete.

1.2.1 Options for handling auxiliary files

nofiles: This is the default. Auxiliary files are read but not written or changed. Also the job is aborted after the last selected page for saving time.

nonofiles/files: Auxiliary files are written.

1.2.2 Package hyperref

In old versions of hyperref [1999/04/12 v6.55] (and below) there is a bug with \setminus nofiles:

- Some "garbage" appears on terminal and in the log file. This is harmless and can be ignored.
- The outline auxiliary file \jobname.out, however, is opened and truncated to zero bytes. Version 1.0 of this package had loaded a patch file hypnofil.tex, if it detects hyperref to get \nofiles work.

With the new version of hyperref [1999/04/13 v6.56] \nofiles works now. Therefore the workaround code is no longer needed and removed.

2 Implementation

```
1 (*package)
```

2.1 New implementation using the LaTeX kernel hooks

```
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pagese1}
4  [2020-08-03 v1.10 Select pages of a document for output (HO)]%
5 \providecommand\IfformatAtLeastTF{\@ifl@t@r\fmtversion}
6 \IfformatAtLeastTF{2020/10/01}{}{\input{pagese1-2016-05-16.sty}}
7 \IfformatAtLeastTF{2020/10/01}{}{\endinput}
8
```

If the package is loaded twice, the package code does not work. So stop loading the package, if it is already loaded.

```
9 \@ifundefined{ps@oddpages}{}{%
```

- 10 \PackageWarningNoLine{pagesel}{Package already loaded.}%
- 11 \endinput
- 12 }
- 13 (/package)

2.2 Package

```
_{14} \; \langle * \mathsf{packagefrozen} \rangle
```

- 15 \NeedsTeXFormat{LaTeX2e}
- 16 \ProvidesPackage{pagesel}
- 17 [2020-08-03 v1.10 Select pages of a document for output (legacy code) (HO)]%

If the package is loaded twice, the package code does not work. So stop loading the package, if it is already loaded.

```
\PackageWarningNoLine{pagesel}{Package already loaded.}%
                20
                    \endinput
                21 }
               Macro \ps@makevoid clears the output box. Because nothing is shipped out and
  \ps@makevoid
               this is intended, we reduce the counter \deadcycles in order to avoid problems,
               if more than \maxdeadcycles pages are omitted.
                22 \newcommand*{\ps@makevoid}{%
                23
                    \global\setbox\@cclv\copy\voidb@x
                24
                    \begingroup
                25
                      \count@=\deadcycles
                26
                      \advance\count@ by -1\relax
                27
                      \deadcycles=\count@
                    \endgroup
                28
                29 }
                30 (/packagefrozen)
  \ps@oddpages
                31 (*package | packagefrozen)
                32 \newcommand*\ps@oddpages{0}
                35 \DeclareOption{nofiles}{\let\ps@nofiles\nofiles}
                37 \DeclareOption{files}{\let\ps@nofiles\@empty}
                38 \ExecuteOptions{nofiles}
                39 \DeclareOption*{%
                40
                    \begingroup
                      \expandafter\ps@checkoption\CurrentOption-\END
                41
                      \edef\x{\endgroup\noexpand\ps@store{\ps@first}{\ps@last}}%
                42
                43
                    \x
                44 }
\ps@checkoption
                45 \newcommand\ps@checkoption{}
                46 \def\ps@checkoption#1-#2\END{%
                47
                    \ifx\\#2\\%
                      \ifx\\#1\\%
                48
                49
                        % empty option
                        \def\ps@first{\maxdimen}%
                50
                        \def\ps@last{\maxdimen}%
                51
                      \else
                52
                53
                        \edef\ps@first{#1}%
                54
                        \edef\ps@last{#1}%
                55
                    \else
                56
                      \ifx\\#1\\%
                57
                        \def\ps@first{-\maxdimen}%
                58
                59
                60
                        \edef\ps@first{#1}%
                61
                62
                      \ps@checklast#2%
                63
                    \fi
                64 }
 \ps@checklast
                65 \newcommand\ps@checklast{}
```

```
66 \ensuremath{\mbox{def\ps@checklast#1-{\%}}}
                          67
                               \int x^{\#1}\
                          68
                                 \def\ps@last{\maxdimen}%
                          69
                               \else
                          70
                                 \edef\ps@last{#1}%
                          71
                               \fi
                          72 }
             \ps@store
                          73 \newcommand*{\ps@store}[2]{%
                               \expandafter\def\expandafter\ps@testlist\expandafter{%
                                 \ps@testlist\ps@pagetest{#1}{#2}%
                          75
                          76
                          77 }
          \ps@testlist
                          78 \newcommand*\ps@testlist{}
                          79 \ProcessOptions
                          80 \begingroup
                               \left( x_{x}\right) 
                                 \ifnum\ps@oddpages>0 \relax\fi
                          83
                                 \ifx\ps@testlist\@empty\else\relax\fi
                          84
                               }%
                          85
                               \ifx\x\@empty
                          86
                                 \endgroup
                                 \PackageInfo{pagesel}{Nothing to do}%
                          87
                                 \expandafter\endinput
                               \fi
                          89
                          90 \endgroup
                          91 \langle /package \mid packagefrozen \rangle
                          92 (*packagefrozen)
                          93 \RequirePackage{everyshi}
                          94 (/packagefrozen)
                          95 \langle *package | packagefrozen \rangle
                          96 \ps@nofiles
           \c@ps@count
                          97 \newcounter{ps@count}
                          98 \setcounter{ps@count}{0}
\ps@ReturnAfterElseFi
    \ps@ReturnAfterFi
                          99 \long\def\ps@ReturnAfterElseFi#1\else#2\fi{\fi#1}
                         100 \long\def\ps@ReturnAfterFi#1\fi{\fi#1}
                         101 \newcommand{\ps@lastpage}{\maxdimen}
                         102 \ifx\ps@nofiles\nofiles
                         103
                               \ifx\ps@testlist\@empty
                         104
                               \else
                         105
                                 \def\ps@lastpage{0}%
                         106
                                 \newcommand*{\ps@pagetest}[2]{%
                         107
                                   \ifnum#2>\ps@lastpage\relax
                                      \def\ps@lastpage{#2}%
                         108
                                   \fi
                         109
                                 }%
                         110
                                 \ps@testlist
                         111
                                 \let\ps@pagetest\relax
                         112
```

```
113 \fi
               114 \fi
\ps@ifinset
               115 \newcommand*{\ps@ifinset}[4]{%
                    \ifnum#1>\value{ps@count}%
               116
                      \ps@ReturnAfterElseFi{#4}%
               117
                    \else
               118
               119
                      \ps@ReturnAfterFi{%
                         \ifnum#2<\value{ps@count}%
               120
                           \ps@ReturnAfterElseFi{#4}%
               121
                         \else
               122
                           \ps@ReturnAfterFi{#3}%
               123
                         \fi
               124
                      }%
               125
               126
               127 }
\ps@pagetest
               128 \newcommand*{\ps@pagetest}[2]{%
                    \ps@ifinset{#1}{#2}{\let\ps@next\@empty}{}%
               130 }
               131 (/package | packagefrozen)
               132 \(\rangle\packagefrozen\)\\\EveryShipout\{\%
               133 (package)\AddToHook{shipout/before}{%
               134 (*package | packagefrozen)
                    \stepcounter{ps@count}%
               135
                    \ifnum\value{ps@count}>\ps@lastpage\relax
               136
                      \global\output{%
               137
                         \ps@cleanup@if
               138
                         \ps@group@message
               139
               140
                         \typeout{%
                           Package pagesel Notice: Aborting LaTeX job %
               141
               142
                           after last selected page (\ps@lastpage).%
               143
               144
                         \ps@message@ignore
               145
                         \global\setbox\@cclv\box\voidb@x
               146
                        \deadcycles0\relax
               First leave the output group before ending the job.
                         \aftergroup\@@end
               147
                      }%
               148
                    \fi
               149
                    \let\ps@next\@empty
               150
                    \ifx\ps@testlist\@empty
               151
                    \else
                                     \let\ps@next\ps@makevoid
               153 (packagefrozen)
                  \langle package \rangle
                               154
                      \ps@testlist
               155
                    \fi
               156
                    \ifnum\ps@oddpages=1 %
               157
               158
                      \ifodd\value{ps@count}%
               159
                      \else
               160 (packagefrozen)
                                     \let\ps@next\ps@makevoid
               161 (package)
                               \let\ps@next\DiscardShipoutBox
               162
                      \fi
                    \fi
               163
                    \ifnum\ps@oddpages=2 %
```

```
165
                 \ifodd\value{ps@count}%
166 (packagefrozen)
                                                \let\ps@next\ps@makevoid
167
        (package)
                                    \let\ps@next\DiscardShipoutBox
168
                 \else
                 \fi
169
            \fi
170
171 (packagefrozen)
                                           \ps@begindvi
172
            \ps@next
173 }
174 (/package | packagefrozen)
175 (*package | packagefrozen)
176 (packagefrozen)\begingroup\expandafter\expandafter\expandafter\endgroup
177 (packagefrozen) \expandafter\ifx\csname currentiflevel\endcsname\relax
178 (packagefrozen) \let\ps@cleanup@if\@empty
        ⟨packagefrozen⟩ \else
            \def\ps@cleanup@if{%
180
                 \ifnum\currentiflevel>\@ne
181
182
                      \csname fi\endcsname
183
                      \expandafter\ps@cleanup@if
184
           }%
185
186 (packagefrozen)\fi
Because of \aftergroup it is too dangerous to perform a similar cleanup for
187 (packagefrozen) \text{begingroup\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expan
188 (packagefrozen)
                                          \expandafter\ifx\csname currentgrouplevel\endcsname\relax
                                            189 (packagefrozen)
190 (packagefrozen)
                                            \def\ps@message@ignore{%
191 (packagefrozen)
                                                 \typeout{%
                                                      (pagesel) \space\spaces\@spaces\@spaces
192 (packagefrozen)
193 (packagefrozen)
                                                     Messages (\string\end\space occurred ...) can be ignored.%
194 (packagefrozen)
                                                3%
195 (packagefrozen)
                                          }%
        ⟨packagefrozen⟩\else
196
            \def\ps@group@message{%
197
198
                 \ifnum\currentgrouplevel>\@ne
199
                      \def\ps@message@ignore{%
200
                           \typeout{%
                               (pagesel) \space\spaces\@spaces\@spaces
201
                               Message (\string\end\space occurred ...) %
202
                               can be ignored.%
203
                          }%
204
                     }%
205
206
                      \let\ps@message@ignore\@empty
207
208
                 \fi
           }%
209
210 (packagefrozen)\fi
211 (/package | packagefrozen)
2.3
               AtBeginDvi hook support
```

The material of box \@begindvibox is recorded in parallel in box \ps@begindvibox.

```
212 (*packagefrozen)
213 \newbox\ps@begindvibox
214 \ifvoid\@begindvibox
215 \ensuremath{\setminus} else
```

```
\global\setbox\ps@begindvibox\vbox{%
216
       \unvbox\@begindvibox
217
218
    }%
219 \fi
220 \let\ps@org@AtBeginDvi\AtBeginDvi
221 \def\AtBeginDvi#1{%
     \global\setbox\ps@begindvibox\vbox{%
222
       \unvbox\ps@begindvibox
223
       #1%
224
225
    }%
     \ps@org@AtBeginDvi{#1}%
227 }
```

\ps@begindvi

Macro \ps@begindvi is called the similar way as \@begindvi. If the first page is printed, then \AtBeginDvi should work as usual. Otherwise the contents of box \ps@begindvibox is set on the first selected page.

```
228 \def\ps@begindvi{%
     \ifx\ps@next\@empty
229
       \global\let\ps@begindvi\@empty
230
231
     \else
       \global\let\ps@begindvi\ps@begindvi@do
232
233
     \fi
234 }
235 \def\ps@begindvi@do{%
     \ifx\ps@next\@empty
236
       \setbox\@cclv\vbox{%
237
238
         \unvbox\ps@begindvibox
239
         \box\@cclv
240
241
       \global\let\ps@begindvi\@empty
242
     \fi
243 }
244 (/packagefrozen)
```

3 Installation

3.1 Download

Package. This package is available on CTAN³:

CTAN:macros/latex/contrib/pagesel/pagesel.dtx The source file.

CTAN:macros/latex/contrib/pagesel/pagesel.pdf Documentation.

3.2 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 pagesel.dtx
```

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

³CTAN:pkg/pagesel

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

3.3 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.

3.4 Some details for the interested

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{pagesel.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 pagesel.dtx
makeindex -s gind.ist pagesel.idx
pdflatex pagesel.dtx
makeindex -s gind.ist pagesel.idx
pdflatex pagesel.dtx
```

4 History

[1999/03/01 v0.9]

• The first version was built as a response to a question of Dirk Kuypers⁴, published in the newsgroup de.comp.text.tex:

"Re: pdflatex nur fuer bestimmte Seiten?!?" ⁵

⁴Dirk Kuypers's email address: dk@comnets.rwth-aachen.de

 $^{^5\}mathrm{Url}$: https://groups.google.com/group/de.comp.text.tex/msg/6b68c7b3439fb658

[1999/04/05 v1.0]

- Documentation added in dtx format.
- Copyright: LPPL (CTAN:macros/latex/base/lppl.txt)
- Options odd, even added.
- \nofiles added, bug fix for hyperref.
- Abort loading of package, if nothing to do.

[1999/04/13 v1.1]

- \nofiles bug fix removed because of hyperref 6.55.
- First CTAN release.

[2003/06/05 v1.2]

- \deadcyles is decremented for omitted pages.
- LPPL 1.2.

[2006/02/20 v1.3]

- Code is not changed.
- New DTX framework.
- LPPL 1.3

[2006/03/02 v1.4]

 \bullet Support for **\AtBeginDvi** added.

[2006/03/07 v1.5]

• Job is aborted after last selected page.

[2007/04/11 v1.6]

• Line ends sanitized.

[2007/04/12 v1.7]

• Hard coded box number 255 replaced by macro \@cclv.

$[2008/08/11~\mathrm{v1.8}]$

- Code is not changed.
- URL updated from www.dejanews.com to groups.google.com.

[2016/05/16 v1.9]

• Documentation updates.

[2020-08-03 v1.10]

 \bullet Updated to follow the changes in the hook management of LaTeX 2020/10/01

5 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
\@@end 147	$\fint If Format At Least TF \dots 5, 6, 7$
\@begindvibox 214, 217	\ifnum 82, 107,
\@cclv 23, 145, 237, 239	116, 120, 136, 157, 164, 181, 198
\@empty 36,	\ifodd 158, 165
37, 83, 85, 103, 129, 150, 151,	\ifvoid 214
178, 189, 207, 229, 230, 236, 241	\ifx 47, 48, 57, 67, 83,
\@ifl@t@r 5	85, 102, 103, 151, 177, 188, 229, 236
\@ifundefined 9, 18	\input 6
\@ne 181, 198	M
\@spaces 192, 201	\maxdimen 50, 51, 58, 68, 101
\\ 47, 48, 57, 67	(maxdimen 50, 51, 58, 68, 101
A	${f N}$
\AddToHook	$\verb \NeedsTeXFormat $
\advance	\newbox 213
\aftergroup	\newcommand 22,
\AtBeginDvi 220, 221	32, 45, 65, 73, 78, 101, 106, 115, 128
,	\newcounter 97
В	\nofiles 35, 102
\box 145, 239	O
\mathbf{C}	\output 137
\c@ps@count 97	D
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\copy 23 \count@ 25, 26, 27 \csname 177, 182, 188 \currentgrouplevel 198 \currentiflevel 181 \CurrentOption 41	\PackageInfo 87 \PackageWarningNoLine 10, 19 \ProcessOptions 79 \providecommand 5 \ProvidesPackage 3, 16 \ps@begindvi 171, 228
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\copy 23 \count@ 25, 26, 27 \csname 177, 182, 188 \currentgrouplevel 198 \currentiflevel 181 \CurrentOption 41 D \deadcycles 25, 27, 146 \DeclareOption 33, 34, 35, 36, 37, 39	\PackageInfo
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\copy 23 \count@ 25, 26, 27 \csname 177, 182, 188 \currentgrouplevel 198 \currentiflevel 181 \CurrentOption 41 D \deadcycles 25, 27, 146 \DeclareOption 33, 34, 35, 36, 37, 39 \DiscardShipoutBox 154, 161, 167	\PackageInfo
\copy 23 \count@ 25, 26, 27 \csname 177, 182, 188 \currentgrouplevel 198 \currentiflevel 181 \CurrentOption 41 D \deadcycles 25, 27, 146 \DeclareOption 33, 34, 35, 36, 37, 39 \DiscardShipoutBox 154, 161, 167	\PackageInfo
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\copy 23 \count@ 25, 26, 27 \csname 177, 182, 188 \currentgrouplevel 198 \currentiflevel 181 \CurrentOption 41 D \deadcycles 25, 27, 146 \DeclareOption 33, 34, 35, 36, 37, 39 \DiscardShipoutBox 154, 161, 167 E \END 41, 46 \end 193, 202	\PackageInfo
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