# The pagesel package

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# 2008/08/11 v1.8

### Abstract

Single pages or page areas can be selected for output.

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# 1 Usage

The package pagesel is a LATEX  $2\varepsilon$  package:

 $\verb|\usepackage[|\langle options \rangle|] \{ pagesel \}$ 

(For plainT<sub>E</sub>X and L<sup>A</sup>T<sub>E</sub>X 2.09 the similar package selectp<sup>1</sup> from Donald Arsenau<sup>2</sup> 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

### 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.

<sup>&</sup>lt;sup>1</sup>Url: ftp://ftp.ctan.org/tex-archive/macros/latex/contrib/misc/selectp.sty

<sup>&</sup>lt;sup>2</sup>Donald Arsenau's email address: asnd@triumf.ca

#### 1.2.2 Package hyperref

In old versions of hyperref [1999/04/12 v6.55] (and below) there is a bug with \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 worksround code is no longer needed and removed.

# 2 Implementation

### 2.1 Package

```
1 \*package\
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pagesel}
4  [2008/08/11 v1.8 Selecting shipout output pages (H0)]%
If the package is loaded twice, the package code does not work. So stop loading
```

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

```
5 \@ifundefined{ps@makevoid}{}{%
6   \PackageWarningNoLine{pagesel}{Package already loaded.}%
7   \endinput
8 }
```

\ps@makevoid

\ps@oddpages

Macro \ps@makevoid clears the output box. Because nothing is shipped out and this is intended, we reduce the counter \deadcycles in order to avoid problems, if more than \maxdeadcycles pages are omitted.

```
9 \newcommand*{\ps@makevoid}{%
10 \global\setbox\@cclv\copy\voidb@x
11 \begingroup
12 \count@=\deadcycles
13 \advance\count@ by -1\relax
14 \deadcycles=\count@
15 \endgroup
16 }
```

```
17 \newcommand*\ps@oddpages{0}

18 \DeclareOption{odd}{\renewcommand*\ps@oddpages{1}}

19 \DeclareOption{even}{\renewcommand*\ps@oddpages{2}}

20 \DeclareOption{nofiles}{\let\ps@nofiles\nofiles}

21 \DeclareOption{nonofiles}{\let\ps@nofiles\@empty}

22 \DeclareOption{files}{\let\ps@nofiles\@empty}

23 \ExecuteOptions{nofiles}

24 \DeclareOption*{%

25 \begingroup

26 \expandafter\ps@checkoption\CurrentOption-\END

27 \edef\x{\endgroup\noexpand\ps@store{\ps@first}{\ps@last}}%

28 \x
```

#### \ps@checkoption

29 }

```
30 \newcommand\ps@checkoption{}
31 \def\ps@checkoption#1-#2\END{%
32 \ifx\\#2\\%
```

```
\ifx\\#1\\%
                        33
                                % empty option
                        34
                                \def\ps@first{\maxdimen}%
                        35
                        36
                                \def\ps@last{\maxdimen}%
                        37
                        38
                                39
                                \edef\ps@last{#1}%
                              \fi
                        40
                            \else
                        41
                              \ifx\\#1\\%
                        42
                                43
                        44
                                \edef\ps@first{#1}%
                        45
                        46
                        47
                              \ps@checklast#2%
                        48
                            \fi
                        49 }
        \ps@checklast
                        50 \newcommand\ps@checklast{}
                        51 \def\ps@checklast#1-{%
                           \ifx\\#1\\%
                        52
                              53
                            \else
                        54
                              \edef\ps@last{#1}%
                        55
                           \fi
                        56
                        57 }
            \ps@store
                        58 \newcommand*{\ps@store}[2]{%
                            \expandafter\def\expandafter\ps@testlist\expandafter{%
                              \ps@testlist\ps@pagetest{#1}{#2}%
                            }%
                        61
                        62 }
         \ps@testlist
                        63 \newcommand*\ps@testlist{}
                        64 \ProcessOptions
                        65 \begingroup
                        66
                            \left( x_{x}\right) 
                              \ifnum\ps@oddpages>0 \relax\fi
                        67
                        68
                              \ifx\ps@testlist\@empty\else\relax\fi
                        69
                           }%
                        70
                            \ifx\x\@empty
                        71
                              \endgroup
                              \PackageInfo{pagesel}{Nothing to do}%
                        72
                              \expandafter\endinput
                        73
                            \fi
                        74
                        75 \endgroup
                        76 \RequirePackage{everyshi}
                        77 \ps@nofiles
          \c@ps@count
                        78 \newcounter{ps@count}
                        79 \setcounter{ps@count}{0}
\ps@ReturnAfterElseFi
    \ps@ReturnAfterFi
                        80 \long\def\ps@ReturnAfterElseFi#1\else#2\fi{\fi#1}
                        81 \long\def\ps@ReturnAfterFi#1\fi{\fi#1}
```

```
82 \newcommand{\ps@lastpage}{\maxdimen}
                83 \ifx\ps@nofiles\nofiles
                    \ifx\ps@testlist\@empty
                84
                    \else
                85
                86
                       \def\ps@lastpage{0}%
                87
                      \newcommand*{\ps@pagetest}[2]{%
                88
                         \ifnum#2>\ps@lastpage\relax
                89
                           \def\ps@lastpage{#2}%
                        \fi
                90
                      }%
                91
                      \ps@testlist
                92
                      \let\ps@pagetest\relax
                93
                    \fi
                94
                95 \fi
 \ps@ifinset
                96 \newcommand*{\ps@ifinset}[4]{%
                    \ifnum#1>\value{ps@count}%
               97
                      \ps@ReturnAfterElseFi{#4}%
               98
                    \else
               99
                      \ps@ReturnAfterFi{%
               100
                         \ifnum#2<\value{ps@count}%
               101
                           \ps@ReturnAfterElseFi{#4}%
               102
               103
               104
                           \ps@ReturnAfterFi{#3}%
               105
                         \fi
                      }%
               106
               107
                    \fi
               108 }
\ps@pagetest
               109 \newcommand*{\ps@pagetest}[2]{%
                    \ps@ifinset{#1}{#2}{\let\ps@next\@empty}{}%
               111 }
               112 \EveryShipout{%
                    \stepcounter{ps@count}%
               113
                    \ifnum\value{ps@count}>\ps@lastpage\relax
               114
                      \global\output{%
               115
                         \ps@cleanup@if
               116
                         \ps@group@message
               117
                         \typeout{%
               118
                           Package pagesel Notice: Aborting LaTeX job %
               119
                           after last selected page (\ps@lastpage).%
               120
               121
               122
                         \ps@message@ignore
               123
                         \global\setbox\@cclv\box\voidb@x
                         \deadcycles0\relax
               124
               First leave the output group before ending the job.
               125
                         \aftergroup\@@end
                      }%
               126
               127
                    \fi
                    \let\ps@next\@empty
               128
                    \ifx\ps@testlist\@empty
               129
               130
               131
                       \let\ps@next\ps@makevoid
               132
                       \ps@testlist
               133
                    \fi
                    \ifnum\ps@oddpages=1 %
               134
                      \ifodd\value{ps@count}%
               135
               136
                         \let\ps@next\ps@makevoid
               137
```

```
\fi
138
     \fi
139
     \ifnum\ps@oddpages=2 %
140
       \ifodd\value{ps@count}%
141
         \let\ps@next\ps@makevoid
142
143
       \else
144
       \fi
145
     \fi
146
     \ps@begindvi
     \ps@next
147
148 }
149 \begingroup\expandafter\expandafter\expandafter\endgroup
150 \expandafter\ifx\csname currentiflevel\endcsname\relax
     \let\ps@cleanup@if\@empty
152 \else
     \def\ps@cleanup@if{%
153
       \ifnum\currentiflevel>\One
154
         \csname fi\endcsname
155
         \expandafter\ps@cleanup@if
156
157
       \fi
158
     }%
159 \fi
Because of \aftergroup it is too dangerous to perform a similar cleanup for
groups.
160 \begingroup\expandafter\expandafter\expandafter\endgroup
161 \expandafter\ifx\csname currentgrouplevel\endcsname\relax
     \let\ps@group@message\@empty
162
     \def\ps@message@ignore{%
163
       \typeout{%
164
165
         (pagesel) \space\spaces\@spaces\@spaces
166
         Messages (\string\end\space occurred ...) can be ignored.%
167
       }%
     }%
168
169 \else
     \def\ps@group@message{%
170
       \ifnum\currentgrouplevel>\@ne
171
         \def\ps@message@ignore{%
172
173
           \typeout{%
              (pagesel) \space\spaces\@spaces\@spaces
174
175
             Message (\string\end\space occurred ...) %
176
             can be ignored.%
           }%
177
         }%
178
       \else
179
         \let\ps@message@ignore\@empty
180
       \fi
181
    }%
182
183 \fi
```

### 2.2 AtBeginDvi hook support

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

```
184 \newbox\ps@begindvibox
185 \ifvoid\@begindvibox
186 \else
187 \global\setbox\ps@begindvibox\vbox{%
188 \unvbox\@begindvibox
189 }%
190 \fi
191 \let\ps@org@AtBeginDvi\AtBeginDvi
192 \def\AtBeginDvi#1{%
```

```
193 \global\setbox\ps@begindvibox\vbox{%
194 \unvbox\ps@begindvibox
195 #1%
196 }%
197 \ps@org@AtBeginDvi{#1}%
198 }
```

\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.

```
199 \def\ps@begindvi{%
     \ifx\ps@next\@empty
200
       \global\let\ps@begindvi\@empty
201
202
203
        \global\let\ps@begindvi\ps@begindvi@do
204
     \fi
205 }
206 \def\ps@begindvi@do{%
     \ifx\ps@next\@empty
        \setbox\@cclv\vbox{%
208
209
          \unvbox\ps@begindvibox
210
          \box\@cclv
211
       \global\let\ps@begindvi\@empty
212
213
     \fi
214 }
215 (/package)
```

### 3 Installation

#### 3.1 Download

**Package.** This package is available on CTAN<sup>3</sup>:

 ${\tt CTAN:macros/latex/contrib/oberdiek/pagesel.dtx} \ \ {\tt The \ source \ file.}$ 

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

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

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

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

#### 3.2 Bundle installation

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

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

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

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

<sup>3</sup>ftp://ftp.ctan.org/tex-archive/

### 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<sub>F</sub>X:

```
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):

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

#### 3.4 Refresh file name databases

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

#### 3.5 Some details for the interested

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

```
pdftk pagesel.pdf unpack_files output .
```

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

plain-T<sub>E</sub>X: 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 pdfLATFX:

```
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 Kuypers<sup>4</sup>, published in the newsgroup de.comp.text.tex:

"Re: pdflatex nur fuer bestimmte Seiten?!?" <sup>5</sup>

### [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]

• 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 v1.8]

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

<sup>&</sup>lt;sup>4</sup>Dirk Kuypers's email address: dk@comnets.rwth-aachen.de

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

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

$\mathbf{Symbols}$	\nofiles 20, 83
\@@end 125	
\@begindvibox 185, 188	0
\@cclv 10, 123, 208, 210	\output 115
\Qempty 21,	P
22, 68, 70, 84, 110, 128, 129, 151, 162, 180, 200, 201, 207, 212	\PackageInfo 72
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D	\ps@ReturnAfterElseFi 80, 98, 102
\deadcycles	\ps@ReturnAfterFi 80, 100, 104
\DeclareOption 18, 19, 20, 21, 22, 24	\ <b>2</b> -+
	\ps@store 27, <u>58</u>
E	\ps@testlist
E \END	
E \END	\ps@testlist
\END 26, 31	\ps@testlist
\END	\ps@testlist
\text{END} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ps@testlist
\text{END} \frac{26, 31}{\text{end} \frac{166, 175}{\text{endcsname}} \frac{150, 155, 161}{\text{endinput} \frac{7, 73}{\text{73}}	\ps@testlist
\text{END} \ 26, 31 \\ \text{lend} \ 166, 175 \\ \text{lendcsname} \ 150, 155, 161 \\ \text{lendinput} \ 7, 73 \\ \text{EveryShipout} \ 112 \\ \text{ExecuteOptions} \ 23	\ps@testlist
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\text{END} \ 26, 31 \\ \text{lend} \ 166, 175 \\ \text{lendcsname} \ 150, 155, 161 \\ \text{lendinput} \ 7, 73 \\ \text{EveryShipout} \ 112 \\ \text{ExecuteOptions} \ 23	\ps@testlist
END	\ps@testlist
END	\ps@testlist
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END	\ps@testlist
\text{END} \ 26, 31 \\ \text{end} \ 166, 175 \\ \text{lendcsname} \ 150, 155, 161 \\ \text{lendinput} \ 7, 73 \\ \text{EveryShipout} \ 112 \\ \text{ExecuteOptions} \ 23 \\ \text{I} \\ \text{ifnum} \ 67, \ 88, 97, 101, 114, 134, 140, 154, 171 \\ \text{ifodd} \ 135, 141 \\ \text{ifvoid} \ 23, 33, 42, 52, 68, \ 70, 83, 84, 129, 150, 161, 200, 207 \end{array}	\ps@testlist
\text{END} \tag{26, 31} \\end{6, 175} \\end{6, 172} \\\end{6, 172} \\\\end{6, 172} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\ps@testlist
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\text{END} \ 26, 31 \end \ 166, 175 \endcsname \ 150, 155, 161 \endinput \ 7, 73 \text{EveryShipout} \ 112 \text{ExecuteOptions} \ 23 \text{I} \ifnum \ 67, \ 88, 97, 101, 114, 134, 140, 154, 171 \ifodd \ 135, 141 \ifvoid \ 185 \ifx \ 32, 33, 42, 52, 68, \ 70, 83, 84, 129, 150, 161, 200, 207 \text{M} \maxdimen \ M \maxdimen \ 35, 36, 43, 53, 82	\ps@testlist
\text{END} \ 26, 31 \end \ 166, 175 \endcsname \ 150, 155, 161 \endinput \ 7, 73 \text{EveryShipout} \ 112 \text{ExecuteOptions} \ 23 \text{I} \ifnum \ 67, \ 88, 97, 101, 114, 134, 140, 154, 171 \ifodd \ 135, 141 \ifvoid \ 185 \ifx \ 32, 33, 42, 52, 68, \ 70, 83, 84, 129, 150, 161, 200, 207 \text{M} \maxdimen \ 35, 36, 43, 53, 82 \text{N} \text{NeedsTeXFormat} \ 2	\ps@testlist
\text{END} \ 26, 31 \end \ 166, 175 \endcsname \ 150, 155, 161 \endinput \ 7, 73 \text{EveryShipout} \ 112 \text{ExecuteOptions} \ 23 \text{I} \ifnum \ 67, \ 88, 97, 101, 114, 134, 140, 154, 171 \ifodd \ 135, 141 \ifvoid \ 185 \ifx \ 32, 33, 42, 52, 68, \ 70, 83, 84, 129, 150, 161, 200, 207 \text{M} \maxdimen \ M \maxdimen \ 35, 36, 43, 53, 82 \text{N} \NeedsTeXFormat \ 2 \newbox \ 184	\ps@testlist
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\text{END} \ 26, 31 \end \ 166, 175 \endcsname \ 150, 155, 161 \endinput \ 7, 73 \text{EveryShipout} \ 112 \text{ExecuteOptions} \ 23 \text{I} \ifnum \ 67, \ 88, 97, 101, 114, 134, 140, 154, 171 \ifodd \ 135, 141 \ifvoid \ 185 \ifx \ 32, 33, 42, 52, 68, \ 70, 83, 84, 129, 150, 161, 200, 207 \text{M} \maxdimen \ M \maxdimen \ 35, 36, 43, 53, 82 \text{N} \NeedsTeXFormat \ 2 \newbox \ 184	\ps@testlist