# The hypdestopt package

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# 2006/06/01 v2.0

### Abstract

Package hypdestopt supports hyperref's pdftex driver. It removes unnecessary destinations and shortens the destination names or uses numbered destinations to get smaller PDF files.

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# 1 User interface

### 1.1 Introduction

Before PDF-1.5 annotations and destinations cannot be compressed. If the destination names are not needed for external use, the file size can be decreased by the following means:

- Unused destinations are removed.
- The destination names are shortened (option name).
- Using numbered destinations (option num).

### 1.2 Requirements

- Package hyperref 2006/06/01 v6.75a or newer ([2]).
- Package alphalph 2006/05/30 v1.4 or newer ([1]), if option name is used.
- Package ifpdf ([3]).
- pdfT<sub>E</sub>X 1.30.0 or newer.
- pdfT<sub>E</sub>X in PDF mode.
- $\varepsilon$ -T<sub>E</sub>X extensions enabled.
- Probably an additional compile run of pdfIATFX is necessary.

In the first compile runs you can get warnings such as:

```
! pdfTeX warning (dest): name{...} has been referenced ...
```

These warnings should vanish in later compile runs. However these warnings also can occur without this package. The package does not cure them, thus these warnings will remain, but the destination name can be different. In such cases test without package, too.

### 1.3 Use

If the requirements are met, load the package:

\usepackage{hypdestopt}

The following options are supported:

verbose: Verbose debug output is enabled and written in the protocol file.

num: Numbered destinations are used. The file size is smaller, because names are no longer used. This is the default.

name: Destinations are identified by names.

### 1.4 Limitations

- Forget this package, if you need preserved destination names.
- Destination name strings use all bytes (0..255) except the carriage return (13), left parenthesis (40), right parenthesis (41), and backslash (92), because they must be quoted in general and therefore occupy two bytes instead of one.

Further the zero byte (0) is avoided for programs that implement strings using zero terminated C strings. And 255 (0xFF) is avoided to get rid of a possible unicode marker at the begin.

So far I have not seen problems with:

- AcrobatReader 5.08/Linux
- AcrobatReader 7.0/Linux
- xpdf 3.00
- Ghostscript 8.50

```
- \text{ gv } 3.5.8
- GSview 4.6
```

But I have not tested all and all possible PDF viewers.

- Use of named destinations (\pdfdest, \pdfoutline, \pdfstartlink, ...) that are not supported by this package.
- Currently only hyperref with pdfT<sub>F</sub>X in PDF mode is supported.

#### 1.5 **Future**

A more general approach is a PDF postprocessor that takes a PDF file, performs some transformations and writes the result in a more optimized PDF file. Then it does not depend, how the original PDF file was generated and further improvements are easier to apply. For example, the destination names could be sorted: often used destination names would then be shorter than seldom used ones.

#### $\mathbf{2}$ Implementation

### Identification

```
1 (*package)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{hypdestopt}%
   [2006/06/01 v2.0 Hyperref destination optimizer (HO)]
```

#### 2.2Options

#### 2.2.1Option verbose

```
5 \newif\ifHypDest@Verbose
6 \DeclareOption{verbose}{\HypDest@Verbosetrue}
```

\HypDest@VerboseInfo Wrapper for verbose messages.

```
7 \def\HypDest@VerboseInfo#1{%
    \ifHypDest@Verbose
9
      \PackageInfo{hypdestopt}{#1}%
10
11 }
```

#### 2.2.2Options num and name

The options num or name specify the method, how destinations are referenced (by name or number). Default is option num.

```
12 \newif\ifHypDest@name
13 \DeclareOption{num}{\HypDest@namefalse}
14 \DeclareOption{name}{\HypDest@nametrue}
15 \ProcessOptions*\relax
```

#### 2.3 Check requirements

First pdfTFX must running in PDF mode.

```
16 \RequirePackage{ifpdf}
17 \setminus ifpdf
18 \else
    \PackageError{hypdestopt}{%
19
      This package requires pdfTeX in PDF mode%
20
21
    \expandafter\endinput
23 \fi
```

The version of pdfTEX must not be too old, because \pdfescapehex and \pdfunescapehex are used.

```
24 \begingroup\expandafter\expandafter\expandafter\endgroup
25 \expandafter\ifx\csname pdfescapehex\endcsname\relax
     \PackageError{hypdestopt}{%
26
27
       This pdfTeX is too old, at least 1.30.0 is required%
28
29
    \expandafter\endinput
30 \fi
Features of \varepsilon-TEX are used, e.g. \numexpr.
31 \begingroup\expandafter\expandafter\expandafter\endgroup
32 \expandafter\ifx\csname numexpr\endcsname\relax
     \PackageError{hypdestopt}{%
       e-TeX features are missing%
34
     }\@ehc
35
36
     \expandafter\endinput
37 \fi
Package alphalph provides \newalphalph since version 2006/05/30 v1.4.
38 \ifHypDest@name
    \RequirePackage{alphalph}[2006/05/30]
40 \fi
41 \RequirePackage{auxhook}
```

### 2.4 Preamble for auxiliary file

Provide dummy definitions for the macros that are used in the auxiliary files. If the package is used no longer, then these commands will not generate errors.

\HypDest@PrependDocument

We add our stuff in front of the \AtBeginDocument hook to ensure that we are before hyperref's stuff.

```
42 \long\def\HypDest@PrependDocument#1{%
43
    \begingroup
44
      \t \sqrt{z}
      \toks\tw@\expandafter{\@begindocumenthook}%
45
      \xdef\@begindocumenthook{\the\toks\z@\the\toks\tw@}%
46
    \endgroup
47
48 }
49 \AddLineBeginAux{%
    \string\providecommand{\string\HypDest@Use}[1]{}%
50
51 }
```

### 2.5 Generation of destination names

Counter HypDest is used for identifying destinations.

```
52 \newcounter{HypDest}
53 \ifHypDest@name
```

\HypDest@HexChar

Destination names are generated by automatically numbering with the help of package alphalph. \HypDest@HexChar converts a number of the range 1 until 252 into the hexadecimal representation of the string character.

```
54 \def\HypDest@HexChar#1{%
55 \ifcase#1\or
```

Avoid zero byte because of C strings in PDF viewer applications.

56 01\or 02\or 03\or 04\or 05\or 06\or 07\or

```
Omit carriage return (13/^{\circ}0d). It needs quoting, otherwise it would be converted to line feed (10/^{\circ}0a).
```

```
57 08\or 09\or 0A\or 0B\or 0C\or 0E\or 0F\or 58 10\or 11\or 12\or 13\or 14\or 15\or 16\or 17\or 59 18\or 19\or 1A\or 1B\or 1C\or 1D\or 1E\or 1F\or 60 20\or 21\or 22\or 23\or 24\or 25\or 26\or 27\or
```

Omit left and right parentheses  $(40/^28, 41/^39)$ , they need quoting in general.

```
61 2A\or 2B\or 2C\or 2D\or 2E\or 2F\or
62 30\or 31\or 32\or 33\or 34\or 35\or 36\or 37\or
63 38\or 39\or 3A\or 3B\or 3C\or 3D\or 3E\or 3F\or
64 40\or 41\or 42\or 43\or 44\or 45\or 46\or 47\or
65 48\or 49\or 4A\or 4B\or 4C\or 4D\or 4E\or 4F\or
66 50\or 51\or 52\or 53\or 54\or 55\or 56\or 57\or
```

Omit backslash (92/^^5C), it needs quoting.

```
58\or 59\or 5A\or 5B\or 5D\or 5E\or 5F\or
        60\or 61\or 62\or 63\or 64\or 65\or 66\or 67\or
68
        68\or 69\or 6A\or 6B\or 6C\or 6D\or 6E\or 6F\or
69
        70\or 71\or 72\or 73\or 74\or 75\or 76\or 77\or
70
        78\or 79\or 7A\or 7B\or 7C\or 7D\or 7E\or 7F\or
71
        80\or 81\or 82\or 83\or 84\or 85\or 86\or 87\or
72
73
        88\or 89\or 8A\or 8B\or 8C\or 8D\or 8E\or 8F\or
74
        90\or 91\or 92\or 93\or 94\or 95\or 96\or 97\or
75
        98\or 99\or 9A\or 9B\or 9C\or 9D\or 9E\or 9F\or
76
        AO\or A1\or A2\or A3\or A4\or A5\or A6\or A7\or
77
        A8\or A9\or AA\or AB\or AC\or AD\or AE\or AF\or
78
        BO\or B1\or B2\or B3\or B4\or B5\or B6\or B7\or
        B8\or B9\or BA\or BB\or BC\or BD\or BF\or
79
        CO\or C1\or C2\or C3\or C4\or C5\or C6\or C7\or
80
        C8\or C9\or CA\or CB\or CC\or CD\or CE\or CF\or
81
        DO\or D1\or D2\or D3\or D4\or D5\or D6\or D7\or
82
        D8\or D9\or DA\or DB\or DC\or DD\or DE\or DF\or
83
        E0\or E1\or E2\or E3\or E4\or E5\or E6\or E7\or
84
        E8\or E9\or EA\or EB\or EC\or ED\or EE\or EF\or
85
        F0\or F1\or F2\or F3\or F4\or F5\or F6\or F7\or
```

Avoid 255 (0xFF) to get rid of a possible unicode marker at the begin of the string.

```
F8\or F9\or FA\or FB\or FC\or FD\or FE% 88 \fi 89 \}%
```

HypDest@HexString

Now package alphalph comes into play. \HypDest@HexString is defined and converts a positive number into a string, given in hexadecimal representation.

\theHypDest For use, the hexadecimal string is converted back.

```
91 \renewcommand*{\theHypDest}{%

92 \pdfunescapehex{\HypDest@HexString{\value{HypDest}}}%

93 }%
```

With option num we use the number directly.

```
94 \else
95 \renewcommand*{\theHypDest}{%
96 \number\value{HypDest}%
97 }%
98 \fi
```

### 2.6 Assign destination names

\HypDest@Prefix

The new destination names are remembered in macros whose names start with prefix \HypDest@Prefix.

```
99 \edef\HypDest@Prefix{HypDest\string:}
```

\HypDest@Use

During the first read of the auxiliary files, the used destinations get fresh generated short destination names. Also for the old destination names we use the hexadecimal representation. That avoid problems with arbitrary names.

```
100 \def\HypDest@Use#1{%
     \begingroup
101
       \left( x_{x}\right) 
102
          \expandafter\noexpand
103
          \csname\HypDest@Prefix\pdfunescapehex{#1}\endcsname
104
105
       \expandafter\ifx\x\relax
106
107
          \stepcounter{HypDest}%
          \expandafter\xdef\x{\theHypDest}%
108
109
          \let\on@line\@empty
110
          \ifHypDest@name
111
            \HypDest@VerboseInfo{%
              Use: (\pdfunescapehex{#1}) -\string> %
112
              0x\pdfescapehex{\x} (\number\value{HypDest})%
113
            }%
114
          \else
115
            \HypDest@VerboseInfo{%
116
117
              Use: (\pdfunescapehex{#1}) -\string> num \x
118
119
120
       \fi
121
     \endgroup
122 }
```

After the first .aux file processing the destination names are assigned and we can disable \HypDest@Use.

```
123 \AtBeginDocument{%
124 \let\HypDest@Use\@gobble
125 }
```

\HypDest@MarkUsed

Destinations that are actually used are marked by  $\Model{MarkUsed}$ . \nofiles is respected.

```
126 \def\HypDest@MarkUsed#1{%
127
     \HypDest@VerboseInfo{%
128
       MarkUsed: (#1)%
129
     }%
     \if@filesw
130
       \immediate\write\@auxout{%
131
          \string\HypDest@Use{\pdfescapehex{#1}}%
132
133
       }%
134
     \fi
135 }%
```

### 2.7 Redefinition of hyperref's hooks

Package hyperref can be loaded later, therefore we redefine hyperref's macros at \begin{document}.

```
136 \HypDest@PrependDocument{%

Check hyperref version.

137 \@ifpackagelater{hyperref}{2006/06/01}{}{%

138 \PackageError{hypdestopt}{%

139 hyperref 2006/06/01 v6.75a or later is required%

140 }\@ehc

141 }%
```

### 2.7.1 Destination setting

```
\ifHypDest@name
142
       \let\HypDest@Org@DestName\Hy@DestName
143
       \renewcommand*{\Hy@DestName}[2]{%
144
          \@ifundefined{\HypDest@Prefix#1}{%
145
            \HypDest@VerboseInfo{%
146
              DestName: (#1) unused%
147
148
149
            \HypDest@Org@DestName{\csname\HypDest@Prefix#1\endcsname}{#2}%
150
           \HypDest@VerboseInfo{%
151
              DestName: (#1) %
152
              0x\pdfescapehex{\csname\HypDest@Prefix#1\endcsname}%
153
154
           }%
155
         }%
       }%
156
157
       \renewcommand*{\Hy@DestName}[2]{%
158
159
         \@ifundefined{\HypDest@Prefix#1}{%
160
           \HypDest@VerboseInfo{%
              DestName: (#1) unused%
161
           ጉ%
162
         }{%
163
            \pdfdest num\csname\HypDest@Prefix#1\endcsname#2\relax
164
           \HypDest@VerboseInfo{%
165
              DestName: (#1) %
166
              num \csname\HypDest@Prefix#1\endcsname
167
168
           }%
169
         }%
       }%
170
171
     \fi
2.7.2
       Links
172
     \let\HypDest@Org@StartlinkName\Hy@StartlinkName
173
     \ifHypDest@name
       \renewcommand*{\Hy@StartlinkName}[2]{%
174
175
          \HypDest@MarkUsed{#2}%
          \HypDest@Org@StartlinkName{#1}{%
176
            \@ifundefined{\HypDest@Prefix#2}{%
177
              #2%
178
           }{%
179
              \csname\HypDest@Prefix#2\endcsname
180
           }%
181
         }%
182
       }%
183
184
     \else
185
       \renewcommand*{\Hy@StartlinkName}[2]{%
186
          \HypDest@MarkUsed{#2}%
187
          \@ifundefined{\HypDest@Prefix#2}{%
            \HypDest@Org@StartlinkName{#1}{#2}%
188
189
            \pdfstartlink attr{#1}%
190
                          goto num\csname\HypDest@Prefix#2\endcsname
191
192
            \relax
         }%
193
194
       }%
195
     \fi
2.7.3
       Outlines
     \let\HypDest@Org@OutlineName\Hy@OutlineName
     \ifHypDest@name
       \renewcommand*{\Hy@OutlineName}[4]{%
```

```
\HypDest@Org@OutlineName{#1}{%
199
            \@ifundefined{\HypDest@Prefix#2}{%
200
201
            }{%
202
              \csname\HypDest@Prefix#2\endcsname
203
204
           }%
205
         }{#3}{#4}%
       }%
206
     \else
207
       \renewcommand*{\Hy@OutlineName}[4]{%
208
         \@ifundefined{\HypDest@Prefix#2}{%
209
            \HypDest@Org@OutlineName{#1}{#2}{#3}{#4}%
210
211
            \pdfoutline goto num\csname\HypDest@Prefix#2\endcsname
212
                        count#3{#4}%
213
         }%
214
215
       }%
216
     \fi
Because \Hy@OutlineName is called after the .out file is written in the previous
run. Therefore we mark the destination earlier in \@@writetorep.
     \let\HypDest@Org@@writetorep\@@writetorep
217
     \renewcommand*{\@@writetorep}[5]{%
218
       \begingroup
219
         \edef\Hy@tempa{#5}%
220
         \ifx\Hy@tempa\Hy@bookmarkstype
221
222
            \HypDest@MarkUsed{#3}%
223
         \fi
224
       \endgroup
225
        \HypDest@Org@@writetorep{#1}{#2}{#3}{#4}{#5}%
226
227 }
```

### 3 Installation

228 (/package)

**CTAN.** This package is available on  $CTAN^{1}$ :

CTAN:macros/latex/contrib/oberdiek/hypdestopt.dtx The source file.

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

**Unpacking.** The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain- $T_EX$ :

```
tex hypdestopt.dtx
```

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

```
\begin{array}{lll} \mbox{hypdestopt.sty} & \rightarrow & \mbox{tex/latex/oberdiek/hypdestopt.sty} \\ \mbox{hypdestopt.pdf} & \rightarrow & \mbox{doc/latex/oberdiek/hypdestopt.pdf} \\ \mbox{hypdestopt.dtx} & \rightarrow & \mbox{source/latex/oberdiek/hypdestopt.dtx} \end{array}
```

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.

Refresh file databases. If your  $T_EX$  distribution (te $T_EX$ , mik $T_EX$ , ...) rely on file databases, you must refresh these. For example, te $T_EX$  users run texhash or mktexlsr.

<sup>1</sup>ftp://ftp.ctan.org/tex-archive/

### 3.1 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 hypdestopt.pdf unpack_files output .
```

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

plain-TEX: Run docstrip and extract the files.

LATEX: Generate the documentation.

If you insist on using LATEX for docstrip (really, docstrip does not need LATEX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{hypdestopt.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 hypdestopt.dtx
makeindex -s gind.ist hypdestopt.idx
pdflatex hypdestopt.dtx
makeindex -s gind.ist hypdestopt.idx
pdflatex hypdestopt.dtx
```

### 4 References

- [1] Heiko Oberdiek: The alphalph package; 2006/05/30 v1.4; CTAN:macros/latex/contrib/oberdiek/alphalph.pdf.
- [2] Sebastian Rahtz, Heiko Oberdiek: *The hyperref package*; 2006/06/01 v6.75a; CTAN:macros/latex/contrib/hyperref/.
- [3] Heiko Oberdiek: The ifpdf package; 2006/02/20 v1.4; CTAN:macros/latex/contrib/oberdiek/ifpdf.pdf.

# 5 History

### [2006/06/01 v1.0]

• First version.

### [2006/06/01 v2.0]

- New method for referencing destinations by number; an idea proposed by Lars Hellström in the mailing list LATEX-L.
- Options name and num added.

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