

# The hypdestopt package

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## Abstract

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

The package is not compatible with the  $\LaTeX$  PDFmanagement loaded with `\DocumentMetadata` and will do nothing if it detects it.

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

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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 `iftex`.
- `pdfTeX` 1.30.0 or newer.
- `pdfTeX` or `luaTeX` in PDF mode.
- $\epsilon$ -`TeX` extensions enabled.
- Probably an additional compile run of `pdfLaTeX` or `luaLaTeX` 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 the 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
- 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 pdfTeX and luaTeX 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.

# 2 Implementation

## 2.1 Identification

```
1 (*package)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{hypdestopt}%
4 [2024-08-07 v2.8 Hyperref destination optimizer (HO)]%
```

## 2.2 Check for PDF management

```
5 \IfDocumentMetadataTF
6 {
7   \PackageWarning{hypdestopt}
8   {
9     \string\DocumentMetadata detected. \MessageBreak
10    The package will do nothing.
11   }{}
12 }{}
13 \IfDocumentMetadataTF
14 {
15   \endinput
16 }{}%
```

## 2.3 Options

### 2.3.1 Option verbose

```
17 \newif\ifHypDest@Verbose
18 \DeclareOption{verbose}{\HypDest@Verbosetrue}

\HypDest@VerboseInfo Wrapper for verbose messages.
19 \def\HypDest@VerboseInfo#1{%
20   \ifHypDest@Verbose
21     \PackageInfo{hypdestopt}{#1}%
22   \fi
23 }
```

### 2.3.2 Options num and name

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

```
24 \newif\ifHypDest@name
25 \DeclareOption{num}{\HypDest@namefalse}
26 \DeclareOption{name}{\HypDest@nametrue}

27 \ProcessOptions*\relax
```

## 2.4 Check requirements

First pdf $\TeX$  must running in PDF mode.

```
28 \RequirePackage{iftex}[2019/11/07]
29 \RequirePackage{pdftexcmds}[2007/11/11]
30 \ifpdf
31 \else
32   \PackageError{hypdestopt}{%
33     This package requires pdfTeX or luaTeX in PDF mode%
34   }\@ehc
35   \expandafter\endinput
36 \fi
```

The version of pdf $\TeX$  must not be too old, because `\pdfescapehex` and `\pdfunescapehex` are used.

```
37 \begingroup\expandafter\expandafter\expandafter\endgroup
38 \expandafter\ifx\csname pdf@escapehex\endcsname\relax
39   \PackageError{hypdestopt}{%
40     This pdfTeX is too old, at least 1.30.0 is required%
41   }\@ehc
42   \expandafter\endinput
43 \fi
```

Features of  $\epsilon$ - $\TeX$  are used, e.g. `\numexpr`.

```
44 \begingroup\expandafter\expandafter\expandafter\endgroup
45 \expandafter\ifx\csname numexpr\endcsname\relax
46   \PackageError{hypdestopt}{%
47     e-TeX features are missing%
48   }\@ehc
49   \expandafter\endinput
50 \fi
```

Package `alphalph` provides `\newalphalph` since version 2006/05/30 v1.4.

```
51 \ifHypDest@name
52   \RequirePackage{alphalph}[2006/05/30]%
53 \fi

54 \RequirePackage{auxhook}[2009/12/14]
55 \RequirePackage{pdfescape}[2007/04/21]
```

## 2.5 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. Starting with LaTeX 2020/10/01 we use the hook and a rule.

```
56 \providecommand\IfFormatAtLeastTF{\@ifl@t@r\fmtversion}
57 \IfFormatAtLeastTF{2020/10/01}
58 {
59   \long\def\HypDest@PrependDocument#1{%
60     \AddToHook{begindocument}{#1}}%
61   \DeclareHookRule{begindocument}{.}{before}{hyperref}
62 }
63 {
64   \long\def\HypDest@PrependDocument#1{%
65     \begingroup
66     \toks\z@{#1}%
67     \toks\tw@\expandafter{\@begindocumenthook}%
68     \xdef\@begindocumenthook{\the\toks\z@\the\toks\tw@}%
69     \endgroup
70   }
71 }

72 \AddLineBeginAux{%
73   \string\providecommand{\string\HypDest@Use}[1]{}%
74 }
```

## 2.6 Generation of destination names

Counter `HypDest` is used for identifying destinations.

```
75 \newcounter{HypDest}
76 \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.

```
77 \def\HypDest@HexChar#1{%
78   \ifcase#1\or
```

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

```
79     01\or 02\or 03\or 04\or 05\or 06\or 07\or
```

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

```
80     08\or 09\or 0A\or 0B\or 0C\or 0E\or 0F\or
81     10\or 11\or 12\or 13\or 14\or 15\or 16\or 17\or
82     18\or 19\or 1A\or 1B\or 1C\or 1D\or 1E\or 1F\or
83     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.

```
84     2A\or 2B\or 2C\or 2D\or 2E\or 2F\or
85     30\or 31\or 32\or 33\or 34\or 35\or 36\or 37\or
86     38\or 39\or 3A\or 3B\or 3C\or 3D\or 3E\or 3F\or
87     40\or 41\or 42\or 43\or 44\or 45\or 46\or 47\or
88     48\or 49\or 4A\or 4B\or 4C\or 4D\or 4E\or 4F\or
89     50\or 51\or 52\or 53\or 54\or 55\or 56\or 57\or
```

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

```
90     58\or 59\or 5A\or 5B\or 5D\or 5E\or 5F\or
91     60\or 61\or 62\or 63\or 64\or 65\or 66\or 67\or
92     68\or 69\or 6A\or 6B\or 6C\or 6D\or 6E\or 6F\or
```

```

93      70\or 71\or 72\or 73\or 74\or 75\or 76\or 77\or
94      78\or 79\or 7A\or 7B\or 7C\or 7D\or 7E\or 7F\or
95      80\or 81\or 82\or 83\or 84\or 85\or 86\or 87\or
96      88\or 89\or 8A\or 8B\or 8C\or 8D\or 8E\or 8F\or
97      90\or 91\or 92\or 93\or 94\or 95\or 96\or 97\or
98      98\or 99\or 9A\or 9B\or 9C\or 9D\or 9E\or 9F\or
99      A0\or A1\or A2\or A3\or A4\or A5\or A6\or A7\or
100     A8\or A9\or AA\or AB\or AC\or AD\or AE\or AF\or
101     B0\or B1\or B2\or B3\or B4\or B5\or B6\or B7\or
102     B8\or B9\or BA\or BB\or BC\or BD\or BE\or BF\or
103     C0\or C1\or C2\or C3\or C4\or C5\or C6\or C7\or
104     C8\or C9\or CA\or CB\or CC\or CD\or CE\or CF\or
105     D0\or D1\or D2\or D3\or D4\or D5\or D6\or D7\or
106     D8\or D9\or DA\or DB\or DC\or DD\or DE\or DF\or
107     E0\or E1\or E2\or E3\or E4\or E5\or E6\or E7\or
108     E8\or E9\or EA\or EB\or EC\or ED\or EE\or EF\or
109     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.

```

110     F8\or F9\or FA\or FB\or FC\or FD\or FE%
111     \fi
112   }%

```

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

```

113   \newalphalph\HypDest@HexString\HypDest@HexChar{250}%

```

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

```

114   \renewcommand*\theHypDest}{%
115     \pdf@unescapehex{\HypDest@HexString{\value{HypDest}}}%
116   }%

```

With option `num` we use the number directly.

```

117 \else
118   \renewcommand*\theHypDest}{%
119     \number\value{HypDest}%
120   }%
121 \fi

```

## 2.7 Assign destination names

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

```

122 \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.

```

123 \def\HypDest@Use#1{%
124   \begingroup
125   \edef\x{%
126     \expandafter\noexpand
127     \csname\HypDest@Prefix\pdf@unescapehex{#1}\endcsname
128   }%
129   \expandafter\ifx\x\relax
130     \stepcounter{HypDest}%
131     \expandafter\xdef\x{\theHypDest}%
132     \let\on@line\@empty
133     \ifHypDest@name
134       \HypDest@VerboseInfo{%
135         Use: (\pdf@unescapehex{#1}) -\string> %
136         0x\pdf@escapehex{\x} (\number\value{HypDest})%

```

```

137     }%
138     \else
139         \HypDest@VerboseInfo{%
140             Use: (\pdf@unescapehex{#1}) -\string> num \x
141         }%
142     \fi
143 \fi
144 \endgroup
145 }

```

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

```

146 \AtBeginDocument{%
147     \let\HypDest@Use@gobble
148 }

```

`\HypDest@MarkUsed` Destinations that are actually used are marked by `\HypDest@MarkUsed`. `\nofiles` is respected.

```

149 \def\HypDest@MarkUsed#1{%
150     \HypDest@VerboseInfo{%
151         MarkUsed: (#1)%
152     }%
153     \if@filesw
154         \immediate\write\@auxout{%
155             \string\HypDest@Use{\pdf@escapehex{#1}}%
156         }%
157     \fi
158 }%

```

## 2.8 Redefinition of `hyperref`'s hooks

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

```

159 \HypDest@PrependDocument{%

```

### 2.8.1 Destination setting

luatex compatibility

```

160 \ifx\pdfextension\@undefined\else
161     \protected\def\pdfdest{\pdfextension dest }
162 \fi
163 \ifHypDest@name
164     \let\HypDest@Org@DestName\Hy@DestName
165     \renewcommand*{\Hy@DestName}[2]{%
166         \EdefUnescapeString\HypDest@temp{#1}%
167         \@ifundefined{\HypDest@Prefix\HypDest@temp}{%
168             \HypDest@VerboseInfo{%
169                 DestName: (\HypDest@temp) unused%
170             }%
171         }{%
172             \HypDest@Org@DestName{%
173                 \csname\HypDest@Prefix\HypDest@temp\endcsname
174             }{#2}%
175             \HypDest@VerboseInfo{%
176                 DestName: (\HypDest@temp) %
177                 Ox\pdf@escapehex{%
178                     \csname\HypDest@Prefix\HypDest@temp\endcsname
179                 }%
180             }%
181         }%
182     }%

```

```

183 \else
184   \renewcommand*{\Hy@DestName}[2]{%
185     \EdefUnescapeString\HypDest@temp{#1}%
186     \@ifundefined{\HypDest@Prefix\HypDest@temp}{%
187       \HypDest@VerboseInfo{%
188         DestName: (\HypDest@temp) unused%
189       }%
190     }{%
191       \pdfdest num%
192       \csname\HypDest@Prefix\HypDest@temp\endcsname#2\relax
193       \HypDest@VerboseInfo{%
194         DestName: (\HypDest@temp) %
195         num \csname\HypDest@Prefix\HypDest@temp\endcsname
196       }%
197     }%
198   }%
199 \fi

```

## 2.8.2 Links

```

200 \let\HypDest@Org@StartlinkName\Hy@StartlinkName
201 \ifHypDest@name
202   \renewcommand*{\Hy@StartlinkName}[2]{%
203     \HypDest@MarkUsed{#2}%
204     \HypDest@Org@StartlinkName{#1}{%
205       \@ifundefined{\HypDest@Prefix#2}{%
206         #2%
207       }{%
208         \csname\HypDest@Prefix#2\endcsname
209       }%
210     }%
211   }%
212 \else
213   \renewcommand*{\Hy@StartlinkName}[2]{%
214     \HypDest@MarkUsed{#2}%
215     \@ifundefined{\HypDest@Prefix#2}{%
216       \HypDest@Org@StartlinkName{#1}{#2}%
217     }{%
218       \pdfstartlink attr{#1}%
219         goto num\csname\HypDest@Prefix#2\endcsname
220       \relax
221     }%
222   }%
223 \fi

```

## 2.8.3 Outlines of package hyperref

```

224 \let\HypDest@Org@OutlineName\Hy@OutlineName
225 \ifHypDest@name
226   \renewcommand*{\Hy@OutlineName}[4]{%
227     \HypDest@Org@OutlineName{#1}{%
228       \@ifundefined{\HypDest@Prefix#2}{%
229         #2%
230       }{%
231         \csname\HypDest@Prefix#2\endcsname
232       }%
233     }{#3}{#4}%
234   }%
235 \else
236   \renewcommand*{\Hy@OutlineName}[4]{%
237     \@ifundefined{\HypDest@Prefix#2}{%
238       \HypDest@Org@OutlineName{#1}{#2}{#3}{#4}%
239     }{%
240       \pdfoutline goto num\csname\HypDest@Prefix#2\endcsname

```



```

241             count#3{#4}%
242     }%
243 }%
244 \fi

```

Because `\Hy@OutlineName` is called after the `.out` file is written in the previous run. Therefore we mark the destination earlier in `\@@writetorep`.

```

245 \let\HypDest@Org@@writetorep\@@writetorep
246 \renewcommand*{\@@writetorep}[5]{%
247   \begingroup
248     \edef\Hy@tempa{#5}%
249     \ifx\Hy@tempa\Hy@bookmarkstype
250       \HypDest@MarkUsed{#3}%
251     \fi
252   \endgroup
253   \HypDest@Org@@writetorep{#1}{#2}{#3}{#4}{#5}%
254 }%

```

## 2.8.4 Outlines of package `bookmark`

```

255 \ifpackageloaded{bookmark}{%
256   \renewcommand*\BKM@DefGotoNameAction}[2]{%
257     \ifundefined{\HypDest@Prefix#2}{%
258       \edef#1{goto name{hypdestopt\string :unknown}}%
259     }{%
260       \ifHypDest@name
261         \edef#1{goto name{\csname\HypDest@Prefix#2\endcsname}}%
262       \else
263         \edef#1{goto num\csname\HypDest@Prefix#2\endcsname}%
264       \fi
265     }%
266   }%
267   \def\BKM@HypDestOptHook{%
268     \ifx\BKM@dest\@empty
269     \else
270       \ifx\BKM@gotor\@empty
271         \HypDest@MarkUsed\BKM@dest
272       \fi
273     \fi
274   }%
275 }{}%
276 }
277 </package>

```

# 3 Installation

## 3.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

[CTAN:macros/latex/contrib/oberdiek/hypdestopt.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/hypdestopt.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  $\TeX$ :

```
tex hypdestopt.dtx
```

---

<sup>1</sup>[CTAN:pkg/hypdestopt](#)

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

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

### 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{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 `pdfLATEX`:

```
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:pkg/alphalph](#).
- [2] Sebastian Rahtz, Heiko Oberdiek: *The `hyperref` package*; 2006/06/01 v6.75a; [CTAN:pkg/hyperref](#).

## 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.

### [2007/11/11 v2.1]

- Use of package pdftexcmds for LuaTeX support.

### [2008/08/08 v2.2]

- Support for package bookmark added.

### [2011/05/13 v2.3]

- Fix for \Hy@DestName if the destination name contains special characters.
- Fix for option name and package bookmark.

### [2016/05/16 v2.4]

- Documentation updates.

### [2016/05/21 v2.5]

- LuaTeX compatibility

### [2019/12/29 v2.6]

- use iftex package.

### [2020-09-02 v2.7]

- Adapted to the new hook management of LaTeX (github issue 1)

### [2024-08-07 v2.8]

- Disable the package if \DocumentMetadata is detected (github issue 2)

## 6 Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

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