The bookmark package

Heiko Oberdiek* <heiko.oberdiek at googlemail.com>

2016/05/17 v1.26

Abstract

This package implements a new bookmark (outline) organization for package hyperref. Bookmark properties such as style and color can now be set. Other action types are available (URI, GoToR, Named). The bookmarks are generated in the first compile run. Package hyperref uses two runs

Contents

| 1 | Documentation | | | |
|------------------|---------------|---------|----------------------------------|--|
| | 1.1 | Introdu | uction | |
| | 1.2 | Option | ı <mark>s</mark> | |
| | | 1.2.1 | Options draft and final | |
| | | 1.2.2 | Driver options | |
| | | 1.2.3 | Layout options | |
| | | 1.2.4 | Action options | |
| | | 1.2.5 | Level options | |
| | | 1.2.6 | Style definitions | |
| | | 1.2.7 | Hook support | |
| | 1.3 | Compa | atibility with hyperref | |
| | 1.4 | Adding | g bookmarks at the end | |
| | 1.5 | Limita | tions/ToDos | |
| 2 | Exa | mple | 8 | |
| 3 Implementation | | | | |
| | 3.1 | Packag | ge | |
| | | 3.1.1 | Requirements | |
| | | 3.1.2 | Package options | |
| | | 3.1.3 | Action options | |
| | | 3.1.4 | Option atend | |
| | | 3.1.5 | Option style | |
| | | 3.1.6 | Options for source file location | |
| | | 3.1.7 | Hook support | |
| | | 3.1.8 | Driver setup and loading | |
| | | 3.1.9 | Compatibility for hyperref | |
| | 3.2 | Driver | for dvipdfm | |
| | 3.3 | Driver | for VT _E X | |
| | 3.4 | Driver | for pdfT _E X | |
| | 3.5 | Drivers | s with pdfmark specials | |
| | | 3.5.1 | Driver dvips | |
| | | 3.5.2 | Driver dvipsone | |

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

| | | 3.5.3 Driver textures | 34 |
|----------|-------|--|-----------|
| | | 3.5.4 Common part | 34 |
| | 3.6 | Common part for pdftex and pdfmark | 37 |
| | | 3.6.1 Write auxiliary file | 37 |
| | | 3.6.2 Read auxiliary data | 39 |
| | 3.7 | Option atend | 40 |
| | | 3.7.1 Hook | 40 |
| | | 3.7.2 Drivers using hooks at end of document | 40 |
| | | 3.7.3 Drivers using \AtEndDvi | 40 |
| | | | |
| 4 | Inst | allation | 41 |
| | 4.1 | Download | 41 |
| | 4.2 | Bundle installation | 41 |
| | 4.3 | Package installation | 41 |
| | 4.4 | Refresh file name databases | 42 |
| | 4.5 | Some details for the interested | 42 |
| | | | |
| 5 | Cat | alogue | 42 |
| | | | |
| 6 | Ref | erences | 43 |
| _ | тт. | | 40 |
| 7 | | tory | 43 |
| | | 7/02/19 v0.1] | 43 |
| | | 7/02/20 v0.2] | 43 |
| | | 7/02/21 v0.3] | 43 |
| | | 7/02/22 v0.4] | 43 |
| | | 7/03/02 v0.5] | 43 |
| | | 7/03/03 v0.6] | 43 |
| | | 7/03/07 v0.7] | 43 |
| | | 7/04/09 v0.8] | 44 |
| | | 7/04/25 v0.9] | 44 |
| | | 7/05/29 v1.0] | 44 |
| | | 7/07/13 v1.1] | 44 |
| | | 7/09/25 v1.2] | 44 |
| | | 8/08/08 v1.3] | 44 |
| | | 8/09/13 v1.4] | 44 |
| | | 9/08/13 v1.5] | 44 |
| | | 9/12/06 v1.6] | 44 |
| | [200] | 9/12/07 v1.7] | 44 |
| | [200] | 9/12/17 v1.8] | 44 |
| | [201] | 0/03/30 v1.9 | 45 |
| | [201] | 0/04/03 v1.10] | 45 |
| | [201 | 0/04/04 v1.11] | 45 |
| | [201 | 0/04/08 v1.12] | 45 |
| | [201 | 0/07/23 v1.13] | 45 |
| | [201 | 0/09/02 v1.14] | 45 |
| | [201 | 0/09/25 v1.15] | 45 |
| | [201 | 0/10/19 v1.16] | 45 |
| | [201 | 0/10/25 v1.17 | 45 |
| | 201 | 0/11/05 v1.18] | 45 |
| | - | 1/03/20 v1.19 | 45 |
| | | 1/04/13 v1.20 | 46 |
| | - | 1/04/21 v1.21 | 46 |
| | | 1/05/13 v1.22 | 46 |
| | | 1/09/19 v1.23 | 46 |
| | | 1/12/02 v1.24 | 46 |
| | - | 6/05/16 v1.25] | 46 |
| | - | 6/05/17 v1.26] | 46 |
| | 100 | | |

8 Index 46

1 Documentation

1.1 Introduction

This package bookmark tries to provide a more modern management for bookmarks:

- The bookmarks are already generated in the first TeX compile run.
- The font style and color of the bookmarks can be changed.
- More actions than simple GoTo actions are possible.

In the same way as hyperref [1] the bookmarks are generated in the order of the bookmark generating macros (\bookmark). A level number is used to define the tree structure of the bookmarks. The restrictions are less strict:

- The level values may jump and omit values. A \subsubsection may follow a \chapter. This was an error in hyperref, that prints a warning and tries to fix this.
- Several bookmarks may point to the same destination. In hyperref this would mess up the bookmark tree completely, because the algorithm assumes that the destination names are keys (unique).

Note that this package is intended as experimentation platform for bookmark management. Feedback is welcome. Also the interfaces may change in future versions.

1.2 Options

Options can be given at four places:

- 1. \usepackage[\langle options \rangle] \langle bookmark\rangle This is the only place for driver options and option atend.
- 2. \bookmarksetup{\langle options\rangle}
 This command is just for setting options.
- \bookmarksetupnext{\langle options \rangle}
 The options are stored and called after the options of the next \bookmark command.
- 4. \bookmark[\langle options \rangle] \{\langle title \rangle}\}
 This command sets the bookmark. The option settings remain limited to this bookmark.

Exception: Driver options, option atend and options draft/final cannot be changed after the package is loaded.

1.2.1 Options draft and final

If a LATEX file is compiled several times, then a little time can be saved, if option draft is used to disable the bookmark stuff of this package. Default is final. Both options are boolean options, without value the value true is used. draft=true is the same as final=false.

Options of package bookmark are local options with the exception of driver options. Therefore draft or final given as class option is not seen by this package. If you want to optimize first LATEX runs depending on a global draft, then package ifdraft and LATEX's \PassOptionsToPackage might help in the organization of the preamble, for example:

```
\documentclass[draft]{article}
\usepackage{ifdraft}
\ifdraft{%
  \PassOptionsToPackage{draft}{bookmark}%
}{}
```

1.2.2 Driver options

Supported drivers are pdftex, dvips, dvipsone, textures, dvipdfm (xetex), and vtex. The TEX engines pdfTEX, XHTEX, and VTEX are automatically detected. The default for the DVI drivers is dvips. This can be changed in the configuration file bookmark.cfg by \BookmarkDefaultDriver, e.g.:

\def\BookmarkDefaultDriver{dvipdfm}

Open bookmarks with dvipdfmx. Since 2007-04-25 the cvs version of dvipmdfmx contains a patch that extends the \special for bookmarks in order to specify the open status of an outline entry. Option dvipdfmx-outline-open notifies the package that the dvi driver program understands this kind of \special. Alternatively \SpecialDvipdfmxOutlineOpen can be defined as number one in the configuration file or before the package is loaded, e.g.:

\chardef\SpecialDvipdfmxOutlineOpen=1\relax

1.2.3 Layout options

Font options.

bold: The bookmark is shown with a bold font if the PDF viewer supports this (since PDF 1.4).

italic: An italic font is used (since PDF 1.4).

Both bold and italic can be used together. Using value false disables the font option.

Color option. Colored bookmarks are a feature of PDF 1.4, they are not supported by all PDF viewers.

color: Here the color can be given as color specification of packages **color** or **xcolor**. An empty value means that the color property is not set. Without package **xcolor** the recognized values are restricted to

- Empty value, no color is set, example: color={}
- Explicit color specification of color model rgb, example for red: color=[rgb]{1,0,0}
- Explicit color specification of color model gray, example for dark gray: color=[gray]{0.25}

Note that this restriction also holds if package color is loaded. With xcolor, however, the full range of color specifications can be used.

1.2.4 Action options

dest: Destination name.

page: Page number, first page is 1.

view: View specification, examples:

view={FitB}, view={FitH 842}, view={XYZ 0 100 null} Some view specification parameters expect numbers as parameters with unit bp. They can be given either as plain numbers or as length expressions inside \calc. Expressions of package calc are supported if the package is loaded. Otherwise ε -TFX's \dimexpr is used. Example:

view={FitH \calc{\paperheight-\topmargin-1in}}

view={XYZ 0 \calc{\paperheight} null}

Note that \calc cannot be used for the third parameter of XYZ. This parameter is the zoom value, not a length.

named: Named action name:

FirstPage, LastPage, NextPage, PrevPage

gotor: Name of the external PDF file.

uri: URI specification.

rawaction: Raw action specification. Because these specification depends on the driver this option should not be used.

The appropriate action for the bookmark is selected by analyzing the specified options. The actions are distinguished by different sets of options:

| Action | Options |
|--------|---------------------|
| GoTo: | dest |
| GoTo: | page + view |
| GoToR: | gotor + dest |
| GoToR: | gotor + page + view |
| Named: | named |
| URI∙ | uri |

Missing actions. If the action is missing package bookmark throws an error message. Depending on the driver (pdftex, dvips and friends) the package detects it quite late at the end of the document. Since version 2011/04/21 v1.21 the package tries printing the line number and file name of the corresponding occurrence of \bookmark. However, TeX does provide the line number, but unhappily the file name is a secret. The package supports some ways to get the file name:

- If LuaTeX (indenpendently from DVI or PDF modus) is running, then its status.filename is used automatically.
- Package \currfile [2] redefines LATEX internals to keep track of the file name. If the package is loaded, then its \currfilepath is detected and used automatically by package bookmark.
- The file name can be set manually by option scrfile in \bookmarksetup or \bookmark. But be careful, manual setting disables the previous ways for file name detection. And a wrong or missed file name setting might get you a wrong source location in the error message.

1.2.5 Level options

The order of the bookmark entries are defined by the appearance order of **\bookmark** commands. The tree structure is constructed by the property level of the bookmark nodes. The values of level are integers. If the level of a bookmark entry has a higher value than the previous node, then the entry becomes a child of the previous node. The absolute value of the difference does not matter.

Package bookmark remembers the level of the previous bookmark entry in a global property 'current level'.

The behaviour of the level system can be configured by following options:

level: Sets the level, see the description above. If option level is given without value, then the default behaviour is restored, that the 'current level' is used as level value. Since version 2010/10/19 v1.16 package bookmark also supports names part, section and other, if the macros \toclevel@part, \toclevel@section are defined (done by package hyperref, see option bookmarkdepth).

relievel: Sets the level relative to the previous level. A positive value means that the bookmark entry become a child of the previous one.

keeplevel: Use the level, set by level or rellevel, but do not change the global property 'current level'. The option can be disabled by setting to false.

startatroot: At this time the bookmark tree starts at the top level again. The next bookmark entry is not sorted as child to a previous entry. Example scenario: A document uses part. However there are last chapters that should not be put below the last part:

```
\documentclass{book}
[...]
\begin{document}
  \part{First part}
  \chapter{First chapter in first part}
  [...]
\part{Second part}
  \chapter{First chapter in second part}
  [...]
\bookmarksetup{startatroot}
  \chapter{Index}% does not belong to second part}
end{document}
```

1.2.6 Style definitions

A style is a group of option settings. It can be defined by macro \bookmarkdefinestyle and is used by option style.

```
\bookmarkdefinestyle \{\langle name \rangle\}\ \{\langle key\ value\ list \rangle\}
```

The $\langle key\ value\ list \rangle$ of option settings is assigned the style $\langle name \rangle$.

style: The value of option style is the name of a previously defined style. Its option settings are now executed. The options may include option style. Endless recursion by calling the same style recursively is prevented and throws an error.

1.2.7 Hook support

A hook is called right after the processing the optional options of macro \book-mark.

addtohook: Code, given as value to this option is added to the hook.

```
\bookmarkget \{\langle option \rangle\}
```

Macro \bookmarkget extracts the value of the latest option setting of option \(option \). In case of boolean options number one is returned, if the boolean option is enabled, otherwise the result is zero. The resulting numbers can directly be used in \ifnum or \ifcase. If you want to have the digits 0 and 1, then prefix \bookmarkget with \number. Macro \bookmarkget is expandable. In case of unsupported options an empty string is returned. Supported boolean options are

```
bold, italic, open
```

Other supported options:

```
depth, dest, color, gotor, level, named, openlevel, page, rawaction, uri, view.
```

Additionally the following key is available:

text

It returns the text of the outline entry.

Option setting. Inside the hook an option can be set using \bookmarksetup.

1.3 Compatibility with hyperref

Package bookmark automatically disables hyperref's bookmarks. However the package uses some of the code of hyperref. For example, the package redefines the hook \Hy@writebookmark that hyperref inserts in \addcontentsline and other commands. Therefore hyperref's bookmarks should not be disabled.

Package bookmark uses hyperref's \pdfstringdef and does not provide a replacement.

Some options of hyperref are also implemented in package bookmark:

| hyperref | bookmark | |
|--------------------|-----------|--|
| bookmarksdepth | depth | |
| bookmarksopen | open | |
| bookmarksopenlevel | openlevel | |
| bookmarksnumbered | numbered | |

The following commands are also available:

```
\pdfbookmark
\currentpdfbookmark
\subpdfbookmark
\belowpdfbookmark
```

1.4 Adding bookmarks at the end

Package option atend enables the following macro:

```
\BookmarkAtEnd \{\langle stuff \rangle\}
```

Macro \BookmarkAtEnd puts $\langle stuff \rangle$ at the end of the document. $\langle stuff \rangle$ means bookmark commands. Example:

```
\usepackage[atend]{bookmark}
\BookmarkAtEnd{%
\bookmarksetup{startatroot}%
\bookmark[named=LastPage, level=0]{Last page}%
}
```

Alternatively, option startatroot can be given in \bookmark:

```
\BookmarkAtEnd{%
\bookmark[
    startatroot,
    named=LastPage,
    level=0,
]{Last page}%
```

Remarks.

• \BookmarkAtEnd hides the fact that the method for adding bookmarks at the end of the document depends on the driver.

Some drivers (pdftex, dvips, dvipsone, textures) use package atveryend's for this purpose. \AtEndDocument is too early, the last page might not been shipped out. Because the .aux file is needed, these drivers use \AfterLast-Shipout.

The implementation of the other drivers (dvipdfm, xetex, vtex) depends on \special that does not have an effect after the last page. In this case \AtEndDvi of package atenddvi helps. It puts its argument on last page of the document. Two IATEX runs are necessary at least, because the last page is detected by a reference.

• The time of expansion of the argument of \BookmarkAtEnd is not specified.

This can happen immediately or at the end of the document.

1.5 Limitations/ToDos

- Support for missing actions (Launch, ...).
- Better design for hyperref's option bookmarkstype.

2 Example

```
1 (*example)
 2 \documentclass{article}
 3 \usepackage{xcolor}[2007/01/21]
 4 \usepackage{hyperref}
 5 \usepackage[
6 open,
   openlevel=2,
9 {bookmark}[2016/05/17]
11 \bookmarksetup{color=blue}
12
13 \BookmarkAtEnd{%
   \bookmarksetup{startatroot}%
14
    \bookmark[named=LastPage, level=0]{End/Last page}%
    \bookmark[named=FirstPage, level=1]{First page}%
16
17 }
18
19 \begin{document}
20 \section{First section}
21 \subsection {Subsection A}
22 \begin{figure}
23 \hypertarget{fig}{}%
24 A figure.
25 \end{figure}
26 \bookmark[
27 rellevel=1,
28 keeplevel,
29 dest=fig
30 ]{A figure}
31 \subsection{Subsection B}
32 \setminus Subsubsection \{Subsubsection C\}
33 \subsection{Umlauts: \"A\"O\"U\"a\"o\"u\ss}
34 \newpage
35 \bookmarksetup{
```

```
36 bold,
37 color=[rgb]{1,0,0}
38 }
39 \section{Very important section}
40 \bookmarksetup{
41 italic,
42 bold=false,
43 color=blue
44 }
45 \subsection{Italic section}
46 \bookmarksetup{
47 italic=false
48 }
49 \part{Misc}
50 \section{Diverse}
51 \subsubsection{Subsubsection, omitting subsection}
52 \bookmarksetup{
53 startatroot
54 }
55 \section{Last section outside part}
56 \subsection{Subsection}
57 \bookmarksetup{
58 color={}
59 }
60 \begingroup
61 \bookmarksetup{level=0, color=green!80!black}
62 \bookmark[named=FirstPage]{First page}
63 \verb|\bookmark[named=LastPage]{Last page}|
64 \verb|\bookmark[named=PrevPage]{Previous page}|
65 \verb|\bookmark[named=NextPage]{Next page}|
66 \endgroup
67 \bookmark[
68 page=2,
69 view=FitH 800
70 ]{Page 2, FitH 800}
71 \bookmark[
72 page=2,
73 view=FitBH \calc{\paperheight-\topmargin-lin-\headheight-\headsep}
74]{Page 2, FitBH top of text body}
75 \bookmark[
76 uri={http://www.dante.de/},
77 color=magenta
78]{Dante homepage}
79 \bookmark[
80 gotor={t.pdf},
81 page=1,
82 view={XYZ 0 1000 null},
83 color=cyan!75!black
84]{File t.pdf}
85 \bookmark[named=FirstPage]{First page}
86 \bookmark[rellevel=1, named=LastPage]{Last page (rellevel=1)}
87 \bookmark[named=PrevPage]{Previous page}
88 \bookmark[level=0, named=FirstPage]{First page (level=0)}
89 \bookmark[
90 rellevel=1,
91 keeplevel,
92 named=LastPage
93 ]{Last page (rellevel=1, keeplevel)}
94 \bookmark[named=PrevPage]{Previous page}
95 \end{document}
96 (/example)
```

3 Implementation

3.1 Package

```
97 (*package)
98 \NeedsTeXFormat{LaTeX2e}
99 \ProvidesPackage{bookmark}%
100 [2016/05/17 v1.26 PDF bookmarks (HO)]%
```

3.1.1 Requirements

 ε -T_EX.

\BKM@CalcExpr

```
102 \expandafter\ifx\csname numexpr\endcsname\relax
103 \quad \texttt{\def}\ BKM@CalcExpr\#1\#2\#3\#4\{\%\}
    \begingroup
104
      \count@=#2\relax
105
      \advance\count@by#3#4\relax
106
107
      \edef\x{\endgroup
       \def\noexpand#1{\the\count@}%
108
     }%
109
110
   \x
111 }%
112 \else
113 \def\BKM@CalcExpr#1#2#3#4{%
   \edef#1{%
114
     \t \
115
    }%
116
117 }%
118 \fi
```

Escape features of pdfT_EX.

119 \RequirePackage{pdfescape}[2007/03/20]

\BKM@EscapeName

```
120 \def\BKM@EscapeName#1{%
121 \ifx#1\@empty
122 \else
123 \EdefEscapeName#1#1%
124 \fi
125 }%
```

\BKM@EscapeString

```
126 \def\BKM@EscapeString#1{%

127 \ifx#1\@empty

128 \else

129 \EdefEscapeString#1#1%

130 \fi

131 }%
```

\BKM@EscapeHex

```
132 \def\BKM@EscapeHex#1{%
133 \ifx#1\@empty
134 \else
135 \EdefEscapeHex#1#1%
136 \fi
137 }%
```

\BKM@UnescapeHex

```
138 \def\BKM@UnescapeHex#1{%
139 \EdefUnescapeHex#1#1%
140 }%
```

```
Packages.
```

```
141 \RequirePackage{ifpdf}[2009/04/10]
142 \RequirePackage{ifxetex}
143 \RequirePackage{ifvtex}[2008/11/04]
144 \RequirePackage{ifluatex}[2010/03/01]
145 \RequirePackage{pdftexcmds}[2010/11/04]
146 \RequirePackage{pdftexcmds}[2010/06/18]
147 \RequirePackage{auxhook}[2007/04/06]
148 \RequirePackage{kvsetkeys}[2010/03/01]
149 \RequirePackage{kvoptions}[2009/08/13]
150 \RequirePackage{hycolor}[2008/09/08]
151 \RequirePackage{bitset}[2011/01/30]
152 \RequirePackage{ltxcmds}[2011/04/14]
```

3.1.2 Package options

```
153 \SetupKeyvalOptions{family=BKM,prefix=BKM@}
154 \DeclareLocalOptions{\%
155 atend,%
156 bold,%
157 color,%
158 depth,%
159 dest,%
160 draft,%
161 final,%
162 gotor,%
163 italic,%
164 keeplevel,%
165 level,%
166 named,%
167 numbered,%
168 open,%
169 openlevel,%
170 page,%
171 rawaction,%
172 rellevel,%
173 srcfile,%
174 srcline,%
175 startatroot,%
176 uri,%
177 view,%
178 }
```

\bookmarksetup

 $179 \enskip {\label{lookmarksetup} {\labell} {\l$

\BKM@setup

```
180 \def\BKM@setup#1{%
181 \bookmarksetup{#1}%
182 \ifx\BKM@HookNext\ltx@empty
183 \else
184
    \expandafter\bookmarksetup\expandafter{\BKM@HookNext}%
185
    \BKM@HookNextClear
186 \fi
   \BKM@hook
187
   \ifBKM@keeplevel
188
189 \else
    190
191 \fi
192 }
```

\bookmarksetupnext

```
193 \newcommand*{\bookmarksetupnext}[1]{%
                       194 \ltx@GlobalAppendToMacro\BKM@HookNext{,#1}%
                       195 }
     \BKM@setupnext
\BKM@HookNextClear
                       196 \def\BKM@HookNextClear{\%
                       197 \global\let\BKM@HookNext\ltx@empty
                       198 }
    \BKM@HookNext
                       199 \BKM@HookNextClear
                       200 \DeclareBoolOption{draft}
                       201 \DeclareComplementaryOption{final}{draft}
\BKM@DisableOptions
                       202 \def\BKM@DisableOptions{%
                       203 \DisableKeyvalOption[action=warning,package=bookmark]%
                              {BKM}{draft}%
                       205 \DisableKeyvalOption[action=warning,package=bookmark]%
                              {BKM}{final}%
                       206
                       207 }
                       208 \DeclareBoolOption[\ifHy@bookmarksopen true\else false\fi]{open}
     \bookmark@open
                       209 \def\bookmark@open{%
                       {\tt 210} \quad \verb|\ifBKM@open|| ltx@one\\| else\\| ltx@zero\\| fi
                       211 }
                       212 \DeclareStringOption[\maxdimen]{openlevel}
     \BKM@openlevel
                       213 \edef \BKM@openlevel{\number\@bookmarksopenlevel}
                       214 %\DeclareStringOption[\c@tocdepth]{depth}
                       215 \ltx@IfUndefined{Hy@bookmarksdepth}{%
                       216 \def\BKM@depth{\c@tocdepth}%
                      217 }{%
                      218 \let\BKM@depth\Hy@bookmarksdepth
                       219 }
                       220 \define@key{BKM}{depth}[]{%
                       221
                           \edef\BKM@param{#1}%
                       222 \ifx\BKM@param\@empty
                       223
                            \def\BKM@depth{\c@tocdepth}%
                       224
                           \else
                       225
                            \ltx@IfUndefined{toclevel@\BKM@param}{%
                       226
                              \@onelevel@sanitize\BKM@param
                              227
                              \ifcase 0\expandafter\ifx\BKM@temp-1\fi
                       228
                                   \expandafter\ifnum\expandafter`\BKM@temp>47 %
                       229
                                     \expandafter\ifnum\expandafter`\BKM@temp<58 %
                       230
                       231
                                      1%
                       232
                                     \fi
                       233
                                   \fi
                       234
                                   \relax
                       235
                               \PackageWarning{bookmark}{%
                                 Unknown document division name (\BKM@param)\MessageBreak
                       236
                                for option `depth'%
                       237
                       238
                               7%
                              \else
                       239
```

```
240
                                                                                                          \BKM@SetDepthOrLevel\BKM@depth\BKM@param
                                                                                 241
                                                                                 242
                                                                                                  }{%
                                                                                                      \BKM@SetDepthOrLevel\BKM@depth{%
                                                                                 243
                                                                                                          \csname toclevel@\BKM@param\endcsname
                                                                                 244
                                                                                 245
                                                                                 246
                                                                                                 }%
                                                                                 247
                                                                                             \fi
                                                                                248 }
                        \bookmark@depth
                                                                                 249 \def\bookmark@depth{\BKM@depth}
     \BKM@SetDepthOrLevel
                                                                                 250 \def\BKM@SetDepthOrLevel#1#2{%
                                                                                 251 \begingroup
                                                                                 252
                                                                                                  \scine{2} \cdot \cite{2} \cdot \cite{2}
                                                                                 253
                                                                                                       \count@=\#2\relax
                                                                                 254
                                                                                                       \expandafter
                                                                                 255
                                                                                                  }%
                                                                                 256 \expandafter\endgroup
                                                                                              \verb|\expandafter| def| expandafter #1 expandafter {\the \count@} %
                                                                                 257
                                                                                 258 }
                                                                                 259 \verb|\DeclareStringOption[\BKM@currentlevel]{level}[\BKM@currentlevel]| \\
                                                                                 260 \ensuremath{\mbox{\mbox{$\sim$}}} 8KM} {level} {\%}
                                                                                 261 \edef\BKM@param{#1}%
                                                                                 262 \ifx\BKM@param\BKM@MacroCurrentLevel
                                                                                                 \let\BKM@level\BKM@param
                                                                                 263
                                                                                 264
                                                                                              \else
                                                                                                  \ltx@IfUndefined{toclevel@\BKM@param}{%
                                                                                 265
                                                                                                       \@onelevel@sanitize\BKM@param
                                                                                 266
                                                                                 267
                                                                                                       268
                                                                                                       \ifcase 0\expandafter\ifx\BKM@temp-1\fi
                                                                                 269
                                                                                                                      \verb|\expandafter\ifnum\expandafter'\BKM@temp>47 %
                                                                                                                           \verb|\expandafter\ifnum\expandafter'\BKM@temp<58 %|
                                                                                 270
                                                                                                                              1%
                                                                                 271
                                                                                                                           \fi
                                                                                 272
                                                                                                                      \fi
                                                                                 273
                                                                                                                      \relax
                                                                                274
                                                                                 275
                                                                                                          \PackageWarning{bookmark}{%
                                                                                                              Unknown document division name (\BKM@param)\MessageBreak
                                                                                 276
                                                                                 277
                                                                                                              for option `level'%
                                                                                 278
                                                                                                          }%
                                                                                 279
                                                                                                      \else
                                                                                                          \verb|\BKM@SetDepthOrLevel\BKM@level\BKM@param| \\
                                                                                 280
                                                                                                       \fi
                                                                                 281
                                                                                                  }{%
                                                                                 282
                                                                                                      \verb|\BKM@SetDepthOrLevel\BKM@level{%}|
                                                                                 283
                                                                                 284
                                                                                                          \verb|\csname| toclevel@\BKM@param| endcsname|
                                                                                 285
                                                                                 286
                                                                                                  }%
                                                                                              \fi
                                                                                 287
                                                                                 288 }
\BKM@MacroCurrentLevel
                                                                                 289 \def\BKM@MacroCurrentLevel{\BKM@currentlevel}
                                                                                 290 \DeclareBoolOption{keeplevel}
                                                                                 291 \DeclareBoolOption{startatroot}
```

\BKM@startatrootfalse

```
292 \def\BKM@startatrootfalse{%
                              293 \global\let\ifBKM@startatroot\iffalse
                              294 }
        \BKM@startatroottrue
                              295 \def\BKM@startatroottrue{%
                                  \global\let\ifBKM@startatroot\iftrue
                              296
                              297 }
                              298 \define@key{BKM}{rellevel}{%
                              299 \BKM@CalcExpr\BKM@level{#1}+\BKM@currentlevel
                              300 }
             \bookmark@level
                              301 \def\bookmark@level{\BKM@level}
          \BKM@currentlevel
                              302 \def\BKM@currentlevel{0}
                             Make bookmark's option numbered an alias for hyperref's bookmarksnumbered.
                              303 \DeclareBoolOption[%
                              304 \ifHy@bookmarksnumbered true\else false\fi
                              305 ]{numbered}
                              306 \g@addto@macro\BKM@numberedtrue{%
                              307 \let\ifHy@bookmarksnumbered\iftrue
                              308 }
                              309 \g@addto@macro\BKM@numberedfalse{%
                              311 }
                              312 \g@addto@macro\Hy@bookmarksnumberedtrue{%
                              313 \let\ifBKM@numbered\iftrue
                              315 \g@addto@macro\Hy@bookmarksnumberedfalse{%
                              316 \let\ifBKM@numbered\iffalse
                              317 }
        \bookmark@numbered
                              318 \def\bookmark@numbered{%
                              319 \ifBKM@numbered\ltx@one\else\ltx@zero\fi
                              320 }
                             Redefinitions hyperref's options
  \BKM@PatchHyperrefOption
                              321 \def\BKM@PatchHyperrefOption#1{%
                              322 \expandafter\BKM@@PatchHyperrefOption\csname KV@Hyp@#1\endcsname%
                              323 }
 \BKM@@PatchHyperrefOption
                              324 \def\BKM@@PatchHyperrefOption#1{%
                              325 \expandafter\BKM@@@PatchHyperrefOption#1{##1}\BKM@nil#1%
                              326 }
\BKM@@@PatchHyperrefOption
                              327 \def\BKM@@@PatchHyperrefOption#1\BKM@nil#2#3{%
                              328 \def#2##1{%
                                   #1%
                              329
                              330
                                   \bookmarksetup{#3={##1}}%
                              331 }%
                              332 }
                              333 \BKM@PatchHyperrefOption{bookmarksopen}{open}
                              334 \BKM@PatchHyperrefOption{bookmarksopenlevel}{openlevel}
```

335 \BKM@PatchHyperrefOption{bookmarksdepth}{depth}

```
tions starts with one.
                   336 \bitsetReset{BKM@FontStyle}%
                   337 \define@key{BKM}{italic}[true]{%
                   338 \expandafter\ifx\csname if#1\endcsname\iftrue
                         \bitsetSet{BKM@FontStyle}{0}%
                   339
                   340 \else
                         \bitsetClear{BKM@FontStyle}{0}%
                   342 \fi
                   343 }%
                   344 \define@key{BKM}{bold}[true]{%
                   345 \expandafter\ifx\csname if#1\endcsname\iftrue
                        \bitsetSet{BKM@FontStyle}{1}%
                   346
                   347 \else
                        \bitsetClear{BKM@FontStyle}{1}%
                   348
                   349 \fi
                   350 }%
 \bookmark@italic
                   351 \def\bookmark@italic{%
                   352 \ifnum\bitsetGet{BKM@FontStyle}{0}=1 \ltx@one\else\ltx@zero\fi
                   353 }
 \bookmark@bold
                   354 \def\bookmark@bold{%
                   355 \ifnum\bitsetGet{BKM@FontStyle}{1}=1 \ltx@one\else\ltx@zero\fi
                   356 }
\BKM@PrintStyle
                   357 \def\BKM@PrintStyle{%
                   358 \bitsetGetDec{BKM@FontStyle}%
                   359 }%
                  Options for color.
                   360 \define@key{BKM}{color}{%
                   361 \HyColor@BookmarkColor{#1}\BKM@color{bookmark}{color}%
                   362 }
     \BKM@color
                   363 \let\BKM@color\@empty
 \bookmark@color
                   364 \def\bookmark@color{\BKM@color}
                  3.1.3 Action options
                   365 \left(BKM@temp#1{\%}\right)
                   366 \DeclareStringOption{#1}%
                   367 \expandafter\edef\csname bookmark@#1\endcsname{%
                   368
                         \expandafter\noexpand\csname BKM@#1\endcsname
                   369 }%
                   370 }
  \bookmark@dest
                   371 \BKM@temp{dest}
\bookmark@named
                   372 \BKM@temp{named}
   \bookmark@uri
                   373 \BKM@temp{uri}
```

Font style options. Caution: Package bitset is zero-based, the PDF specifica-

```
\bookmark@gotor
                      374 \BKM@temp{gotor}
 \bookmark@rawaction
                      375 \BKM@temp{rawaction}
                      376 \define@key{BKM}{page}{%
                      377 \def\BKM@page{#1}\%
                      378 \ifx\BKM@page\@empty
                      379 \else
                      380
                           \verb|\edgn| BKM@page{\number}BKM@page}% \\
                      381
                           \ifnum\BKM@page>\z@
                      382
                      383
                             \PackageError{bookmark}{Page must be positive}\@ehc
                      384
                             \def\BKM@page{1}\%
                      385
                      386 \fi
                      387 }
         \BKM@page
                      388 \let\BKM@page\@empty
     \bookmark@page
                      389 \def\bookmark@page{\BKM@@page}
                      390 \define@key{BKM}{view}{%
                      391 \BKM@CheckView{#1}%
                      392 }
         \BKM@view
                      393 \let\BKM@view\@empty
     \bookmark@view
                      394 \def\bookmark@view{\BKM@view}
     BKM@CheckView
                      395 \def\BKM@CheckView#1{%
                      396 \BKM@CheckViewType#1 \@nil
                      397 }
\BKM@CheckViewType
                      398 \def\BKM@CheckViewType#1 #2\@nil{%
                      399 \ \def\BKM@type{#1}%
                      400 \@onelevel@sanitize\BKM@type
                          \BKM@TestViewType{Fit}{}%
                          \BKM@TestViewType{FitB}{}%
                      403 \BKM@TestViewType{FitH}{%
                      404
                           \BKM@CheckParam#2 \@nil{top}%
                      405 }%
                          \BKM@TestViewType{FitBH}{%
                      406
                           \BKM@CheckParam#2 \@nil{top}%
                      407
                      408 }%
                          \BKM@TestViewType{FitV}{%
                      409
                           \BKM@CheckParam#2 \@nil{bottom}%
                      410
                      411 }%
                      412 \BKM@TestViewType{FitBV}{%
                      413
                           \BKM@CheckParam#2 \@nil{bottom}%
                      414 }%
                      415 \BKM@TestViewType{FitR}{%
                           \BKM@CheckRect{#2}{}%
                      416
                      417 }%
                      418 \BKM@TestViewType{XYZ}{%
```

```
\BKM@CheckXYZ{#2}{}%
                       419
                       420 }%
                           \@car{%
                       421
                             \PackageError{bookmark}{%
                       422
                       423
                              Unknown view type `\BKM@type',\MessageBreak
                       424
                              using `FitH' instead%
                       425
                             \ \ensuremath{\mbox{Qehc}}
                             \label{lem:defBKMQview{FitH}} $$ \def\BKMQview{FitH}% $$
                       426
                       427 }%
                       428 \@nil
                       429 }
\BKM@TestViewType
                       430 \def\BKM@TestViewType#1{%
                       431 \def\BKM@temp{#1}\%
                       432 \@onelevel@sanitize\BKM@temp
                       433 \ifx\BKM@type\BKM@temp
                             \let\BKM@view\BKM@temp
                       434
                             \expandafter\@car
                       435
                           \else
                       436
                             \expandafter\@gobble
                       438 \fi
                       439 }
  BKM@CheckParam
                       440 \def\BKM@CheckParam#1 #2\@nil#3{%
                           \def\BKM@param{#1}%
                       441
                          \ifx\BKM@param\@empty
                             \PackageWarning{bookmark}{%
                       443
                               Missing parameter (#3) for `\BKM@type',\MessageBreak
                       444
                       445
                              using 0%
                       446
                             }%
                             \def\BKM@param{0}%
                       447
                       448
                           \else
                             \BKM@CalcParam
                       449
                           \fi
                       450
                           \edef\BKM@view{\BKM@view\space\BKM@param}%
                       451
                       452 }
    BKM@CheckRect
                       453 \def\BKM@CheckRect#1#2{%
                       454 \BKM@@CheckRect#1#2#2#2#2\@nil
                       455 }
  \BKM@@CheckRect
                       456 \def\BKM@@CheckRect#1 #2 #3 #4 #5\@nil{%
                       457 \def\BKM@temp{0}%
                       458 \def\BKM@param{\#1}\%
                           \ifx\BKM@param\@empty
                       459
                             \def\BKM@param{0}%
                       460
                             \def\BKM@temp{1}%
                       461
                           \else
                       462
                       463
                             \BKM@CalcParam
                           \fi
                       464
                           \edef\BKM@view{\BKM@view\space\BKM@param}%
                       465
                       466
                           \def\BKM@param{#2}%
                       467
                           \ifx\BKM@param\@empty
                             \label{lem:defBKM} $$ \operatorname{D}M \operatorname{D} = \{0\} . $$
                       468
                             \def\BKM@temp{1}%
                       469
                           \else
                       470
                             \BKM@CalcParam
                       471
                       472 \fi
```

```
\edef\BKM@view{\BKM@view\space\BKM@param}%
                   473
                       \def\BKM@param{#3}%
                   474
                       \ifx\BKM@param\@empty
                   475
                        \def\BKM@param{0}%
                   476
                   477
                         \def\BKM@temp{1}%
                   478
                       \else
                   479
                        \BKM@CalcParam
                   480
                       \fi
                       \edef\BKM@view{\BKM@view\space\BKM@param}%
                   481
                       \def\BKM@param{#4}%
                   482
                       \ifx\BKM@param\@empty
                   483
                         \def\BKM@param{0}%
                   484
                         \def\BKM@temp{1}%
                   485
                   486
                       \else
                        \BKM@CalcParam
                   487
                       \fi
                   488
                       \verb|\edgh| BKM@view{\BKM@view\space}| BKM@param| %
                   489
                       \ifnum\BKM@temp>\z@
                   490
                        \PackageWarning{bookmark}{Missing parameters for `\BKM@type'}%
                   491
                   492 \fi
                   493 }
 \BKM@CheckXYZ
                   494 \def\BKM@CheckXYZ#1#2{%
                       \BKM@@CheckXYZ#1#2#2\@nil
                   496 }
\BKM@@CheckXYZ
                   497 \def\BKM@@CheckXYZ#1 #2 #3 #4\@nil{%
                   498 \def\BKM@param{#1}%
                   499 \let\BKM@temp\BKM@param
                   500 \@onelevel@sanitize\BKM@temp
                   501 \ifx\BKM@param\@empty
                        \let\BKM@param\BKM@null
                   502
                   503 \else
                   504
                        \ifx\BKM@temp\BKM@null
                   505
                        \else
                          \BKM@CalcParam
                   506
                   507
                        \fi
                   508 \fi
                       \edef\BKM@view{\BKM@view\space\BKM@param}%
                   509
                   510 \def\BKM@param{\#2}\%
                   511 \let\BKM@temp\BKM@param
                   512
                       \@onelevel@sanitize\BKM@temp
                   513
                       \ifx\BKM@param\@empty
                   514
                        \let\BKM@param\BKM@null
                   515
                       \else
                   516
                        \ifx\BKM@temp\BKM@null
                   517
                        \else
                   518
                          \BKM@CalcParam
                        ۱fi
                   519
                   520
                       \edef\BKM@view{\BKM@view\space\BKM@param}%
                   521
                       \def\BKM@param{#3}%
                   522
                       \ifx\BKM@param\@empty
                   523
                   524
                        \let\BKM@param\BKM@null
                   525
                       \edef\BKM@view{\BKM@view\space\BKM@param}%
                   527 }
       \BKM@null
                   528 \def\BKM@null{null}
                   529 \@onelevel@sanitize\BKM@null
```

```
\BKM@CalcParam
                      530 \def\BKM@CalcParam{%
                      531 \begingroup
                      532 \let\calc\@firstofone
                      534 }
 \BKM@@CalcParam
                      535 \def\BKM@@CalcParam#1#2#3\@nil{%
                      536 \ifx\calc#1%
                           \@ifundefined{calc@assign@dimen}{%
                     537
                             \@ifundefined{dimexpr}{%
                      538
                      539
                              \left(\frac{4}{2}\%\right)
                      540
                              \left(\frac{\dimen@}{\dim\expr\#2\left(\frac{1}{2}\right)}\right)
                      541
                             }%
                      542
                           }{%
                      543
                            \left\langle \frac{42}{\%} \right\rangle
                      544
                      545
                           \dimen@.99626\dimen@
                      546
                      547
                            \edef\BKM@param{\strip@pt\dimen@}%
                      548
                           \expandafter\endgroup
                            \expandafter\def\expandafter\BKM@param\expandafter{\BKM@param}%
                      550
                          \else
                      551
                           \endgroup
                      552 \fi
                     553 }
                     3.1.4 Option atend
                      554 \DeclareBoolOption{atend}
                      555 \g@addto@macro\BKM@DisableOptions{%
                          \DisableKeyvalOption[action=warning,package=bookmark]%
                     557
                             {BKM}{atend}%
                     558 }
                     3.1.5 Option style
\bookmarkdefinestyle
                      559 \newcommand*{\bookmarkdefinestyle}[2]{%
                      560
                          \@ifundefined{BKM@style@#1}{%
                      561
                          }{%
                           \PackageInfo{bookmark}{Redefining style `#1'}%
                      562
                      563
                          \end{align*} $$ \operatorname{\mathbb{E}KM@style@\#1}{\#2}\% $$
                      564
                      565 }
                      566 \define@key{BKM}{style}{%
                      567 \BKM@StyleCall{#1}%
                      568 }
                      569 \newif\ifBKM@ok
    \BKM@StyleCall
                      570 \def\BKM@StyleCall#1{%
                      571 \@ifundefined{BKM@style@#1}{%
                      572
                           \PackageError{bookmark}{%
                     573
                             Undefined style `#1'%
                           }\@ehc
                     574
                     575 }{%
                     Check style stack.
                           \BKM@oktrue
                     576
                           \edef\BKM@StyleCurrent{#1}%
                     577
```

```
\@onelevel@sanitize\BKM@StyleCurrent
                         578
                              \let\BKM@StyleEntry\BKM@StyleEntryCheck
                         579
                               \BKM@StyleStack
                         580
                               \ifBKM@ok
                         581
                         582
                                \expandafter\@firstofone
                         583
                               \else
                         584
                                \PackageError{bookmark}{%
                                 Ignoring recursive call of style `\BKM@StyleCurrent'%
                         585
                         586
                                }\@ehc
                                \expandafter\@gobble
                         587
                              \fi
                         588
                         589
                              {%
                        Push current style on stack.
                                \let\BKM@StyleEntry\relax
                         590
                        591
                                \edef\BKM@StyleStack{%
                                 \BKM@StyleEntry{\BKM@StyleCurrent}%
                        592
                         593
                                 \BKM@StyleStack
                                }%
                        594
                        Call style.
                         595
                                \expandafter\expandafter\bookmarksetup
                                \expandafter\expandafter\expandafter{%
                        596
                                 \csname BKM@style@\BKM@StyleCurrent\endcsname
                         597
                                }%
                         598
                        Pop current style from stack.
                         599
                                \BKM@StyleStackPop
                         600
                              }%
                         601 }%
                         602 }
  \BKM@StyleStackPop
                         603 \def\BKM@StyleStackPop\{\%
                         604 \let\BKM@StyleEntry\relax
                         605 \edef\BKM@StyleStack{%
                              \verb|\expandafter|@gobbletwo|BKM@StyleStack|
                         606
                         607 }%
                         608 }
\BKM@StyleEntryCheck
                         609 \def\BKM@StyleEntryCheck#1{%
                         610 \def\BKM@temp{#1}\%
                         611 \ifx\BKM@temp\BKM@StyleCurrent
                         612
                             \BKM@okfalse
                         613 \fi
                         614 }
     \BKM@StyleStack
                         615 \def\BKM@StyleStack{}
                        3.1.6 Options for source file location
                         616 \DeclareStringOption{srcline}
                        617 \DeclareStringOption{srcfile}
                        3.1.7 Hook support
          \BKM@hook
                         618 \def\BKM@hook{}
                         619 \define@key{BKM}{addtohook}{\%}
                         620 \ltx@LocalAppendToMacro\BKM@hook{#1}%
                         621 }
```

```
bookmarkget
```

```
622 \newcommand*{\bookmarkget}[1]{%
623 \romannumeral0%
624 \t \ \ltx@ifundefined{bookmark@#1}{%
     \ltx@space
626 }{%
     \expandafter\expandafter\ltx@space
627
     \csname bookmark@#1\endcsname
628
629 }%
630 }
```

3.1.8 Driver setup and loading

Driver detection.

```
\BKM@DefineDriverKey
```

```
631 \def\BKM@DefineDriverKey#1{%
    632
     \def\BKM@driver{#1}%
633
    ٦%
634
    \g@addto@macro\BKM@DisableOptions{%
635
     \DisableKeyvalOption[action=warning,package=bookmark]%
636
637
        {BKM}{#1}%
    }%
638
639 }
640 \BKM@DefineDriverKey{pdftex}
641 \BKM@DefineDriverKey{dvips}
642 \BKM@DefineDriverKey{dvipsone}
643 \BKM@DefineDriverKey{textures}
644 \BKM@DefineDriverKey{dvipdfm}
645 \BKM@DefineDriverKey{dvipdfmx}
646 \BKM@DefineDriverKey{xetex}
647 \BKM@DefineDriverKey{vtex}
648 \define@key{BKM}{dvipdfmx-outline-open}[true]{%}
    \verb|\expandafter\ifx\csname| if \#1\expandafter\ends name|
649
               \csname iftrue\endcsname
650
     \chardef\SpecialDvipdfmxOutlineOpen\@ne
651
652
    \else
653
     \chardef\SpecialDvipdfmxOutlineOpen\z@
654
    \fi
656 \g@addto@macro\BKM@DisableOptions{%
    \DisableKeyvalOption{BKM}{dvipdfmx-outline-open}%
657
658 }
659 \def\bookmark@driver{\BKM@driver}
660 \InputIfFileExists{bookmark.cfg}{}{}
```

\bookmark@driver

\BookmarkDriverDefault

661 \providecommand*{\BookmarkDriverDefault}{dvips}

```
\BKM@driver LuaTeX and pdfTeX share driver.
```

```
662 \ifpdf
    \def\BKM@driver{pdftex}%
664
    \ifx\pdfoutline\@undefined
665
      \ifx\pdfextension\@undefined\else
        \protected\def\pdfoutline{\pdfextension outline }
666
      \fi
667
668 \fi
669 \else
```

```
\ifxetex
670
     \def\BKM@driver{dvipdfm}%
671
672
    \else
673
      \ifvtex
674
       \def\BKM@driver{vtex}%
675
      \else
676
       \edef\BKM@driver{\BookmarkDriverDefault}%
677
      \fi
    \fi
678
679 \fi
```

Process options.

```
680 \ProcessKeyvalOptions*
681 \BKM@DisableOptions
```

Option draft

```
682 \ifBKM@draft
683 \PackageWarningNoLine{bookmark}{Draft mode on}%
                  \let\bookmarksetup\ltx@gobble
                  \let\BookmarkAtEnd\ltx@gobble
685
686 \let\bookmarkdefinestyle\ltx@gobbletwo
687 \let\bookmarkget\ltx@gobble
688 \let\pdfbookmark\ltx@undefined
689 \newcommand*{\pdfbookmark}[3][]{}%
690 \let\currentpdfbookmark\ltx@gobbletwo
691 \let\subpdfbookmark\ltx@gobbletwo
692 \let\belowpdfbookmark\ltx@gobbletwo
693 \newcommand*{\bookmark}[2][]{}%
694 \renewcommand*{\Hy@writebookmark}[5]{}%
695 \let\ReadBookmarks\relax
{\tt 696 \ \ \ } let \verb|BKM@DefGotoNameAction|| ltx@gobbletwo \% package \verb|`hypdestopt'|| ltx@gobbletwo % package \verb|`hypdestopt'|| ltx@gobbletwo % package | ltx@gobbletwo
697 \expandafter\endinput
698 \fi
```

Driver validation and loading.

```
699 \newif\ifBKM@DvipdfmxOutlineOpen
 700 \t \ OutlineOpen}{%
                             \ifxetex
 701
 702
                                          \ifdim\number\XeTeXversion\XeTeXrevision in<0.9995in %
 703
 704
                                                      \chardef\SpecialDvipdfmxOutlineOpen\ltx@one
 705
                                                      \BKM@DvipdfmxOutlineOpentrue
 706
                                          \fi
 707 \fi
 708 }{%
                               \label{lem:condition} $$ \left( \sum_{x \in \mathcal{X}} \sum_{x \in \mathcal{X}} \left( \sum_{x \in \mathcal{X}} \left( \sum_{x \in \mathcal{X}} \sum_{x \in \mathcal{X}} \left( \sum_{x \in \mathcal{X}} \left( \sum_{x \in \mathcal{X}} \sum_{x \in \mathcal{X}} \left( \sum_{x \in \mathcal{X}} \left( \sum_{x \in \mathcal{X}} \sum_{x \in \mathcal{X}} \sum_{x \in \mathcal{X}} \left( \sum_{x \in \mathcal{X}} \sum_{x \in \mathcal{X}} \sum_{x \in \mathcal{X}} \left( \sum_{x \in \mathcal{X}} \sum_{x \in \mathcal{X}} \sum_{x \in \mathcal{X}} \sum_{x \in \mathcal{X}} \left( \sum_{x \in \mathcal{X}} \sum_{x
 709
                                          \BKM@DvipdfmxOutlineOpentrue
 710
                               \fi
 711
 712 }
 713 \def\BKM@temp{dvipdfmx}%
 714 \ifx\BKM@temp\BKM@driver
715 \def\BKM@driver{dvipdfm}%
716 \fi
 717 \def\BKM@temp{pdftex}%
 718 \ifpdf
 719 \ifx\BKM@temp\BKM@driver
 720
                               \else
                                          \PackageWarningNoLine{bookmark}{%
 721
                                                    Wrong driver `\BKM@driver', using `pdftex' instead%
 722
 723
```

```
725 \fi
                      726 \else
                           \ifx\BKM@temp\BKM@driver
                      727
                            \PackageError{bookmark}{%
                      728
                      729
                              Wrong driver, pdfTeX is not running in PDF mode.\MessageBreak
                      730
                              Package loading is aborted%
                      731
                            }\@ehc
                             \expandafter\expandafter\expandafter\endinput
                      732
                      733
                           \def\BKM@temp{dvipdfm}\%
                      734
                           \ifxetex
                      735
                            \ifx\BKM@temp\BKM@driver
                      736
                      737
                              \PackageWarningNoLine{bookmark}{%
                      738
                      739
                               Wrong driver `\BKM@driver',\MessageBreak
                      740
                               using `dvipdfm' for XeTeX instead%
                      741
                              }%
                              \let\BKM@driver\BKM@temp
                      742
                      743
                             \fi
                      744
                           \else
                            \def\BKM@temp{vtex}%
                      745
                            \ifvtex
                      746
                              \ifx\BKM@temp\BKM@driver
                      747
                      748
                      749
                               \PackageWarningNoLine{bookmark}{%
                                 Wrong driver `\BKM@driver',\MessageBreak
                      750
                      751
                                 using `vtex' for VTeX instead%
                      752
                               \let\BKM@driver\BKM@temp
                      753
                              \fi
                      754
                      755
                             \else
                      756
                              \ifx\BKM@temp\BKM@driver
                      757
                               \PackageError{bookmark}{%
                                 Wrong driver, VTeX is not running in PDF mode.\MessageBreak
                      758
                      759
                                 Package loading is aborted%
                      760
                      761
                               \expandafter\expandafter\expandafter\endinput
                      762
                              ۱fi
                            \fi
                      763
                          \fi
                      764
                      765 \fi
                      766 \InputIfFileExists{bkm-\BKM@driver.def}{}{%
                      767
                          \PackageError{bookmark}{%
                            Unsupported driver `\BKM@driver'.\MessageBreak
                      768
                      769
                            Package loading is aborted%
                      770
                           }\@ehc
                      771
                           \endinput
                      772 }
                             Compatibility for hyperref
                     3.1.9
      \pdfbookmark
                      773 \let\pdfbookmark\ltx@undefined
                      774 \newcommand*{\pdfbookmark}[3][0]{%
                      775 \bookmark[level=#1,dest={#3.#1}]{#2}%
                      776 \hyper@anchorstart{#3.#1}\hyper@anchorend
                      777 }
\currentpdfbookmark
                      778 \def\currentpdfbookmark{%
                      779 \pdfbookmark[\BKM@currentlevel]%
```

\let\BKM@driver\BKM@temp

724

```
780 }
      \subpdfbookmark
                                                       781 \def\subpdfbookmark{\%
                                                       782 \BKM@CalcExpr\BKM@CalcResult\BKM@currentlevel+1%
                                                       783 \quad \texttt{\expandafter\pdfbookmark\expandafter[\BKM@CalcResult]\%}
                                                       784 }
\belowpdfbookmark
                                                       785 \def\belowpdfbookmark#1#2{%
                                                       786 \xdef\BKMQgtemp{\number\BKMQcurrentlevel}\%
                                                       787 \subpdfbookmark{#1}{#2}%
                                                       788 \global\let\BKM@currentlevel\BKM@gtemp
                                                       789 }
                                                             Section number, text, label, level, file
\Hy@writebookmark
                                                       790 \def\Hy@writebookmark#1#2#3#4#5{%
                                                       791 \ifnum#4>\BKM@depth\relax
                                                                  \else
                                                       792
                                                                      \label{lem:defBKMQtype} $$\def\BKMQtype{\#5}\%$
                                                       793
                                                                      \ifx\BKM@type\Hy@bookmarkstype
                                                       794
                                                       795
                                                                          \begingroup
                                                                              \ifBKM@numbered
                                                       796
                                                       797
                                                                                 \let\numberline\Hy@numberline
                                                       798
                                                                                 \verb|\label{thm:lem:hy@numberline|} In the lem of the le
                                                       799
                                                                                 \let\partnumberline\Hy@numberline
                                                       800
                                                                                 \let\chapternumberline\Hy@numberline
                                                       801
                                                                              \else
                                                                                 \let\numberline\@gobble
                                                       802
                                                                                 \let\booknumberline\@gobble
                                                       803
                                                                                 \let\partnumberline\@gobble
                                                       804
                                                       805
                                                                                 \let\chapternumberline\@gobble
                                                       806
                                                       807
                                                                              \verb|\bookmark[level=#4,dest={#3}]{#2}|
                                                       808
                                                                          \endgroup
                                                       809
                                                                      \fi
                                                                  \fi
                                                       810
                                                       811 }
       \ReadBookmarks
                                                       812 \let\ReadBookmarks\relax
                                                       813 (/package)
                                                                  Driver for dvipdfm
                                                     3.2
                                                       814 (*dvipdfm)
                                                       815 \NeedsTeXFormat{LaTeX2e}
                                                       816 \ProvidesFile{bkm-dvipdfm.def}%
                                                       817 [2016/05/17 v1.26 bookmark driver for dvipdfm (HO)]%
                        \BKM@id
                                                       818 \newcount\BKM@id
                                                       819 \BKM@id=\z@
                           \BKM@0
                                                       820 \@namedef{BKM@0}{000}
                    \ifBKM@sw
                                                       821 \newif\ifBKM@sw
```

\bookmark

```
822 \newcommand*{\bookmark}[2][]{%
823
                    \if@filesw
824
                            \begingroup
                                    \def\bookmark@text{#2}%
825
826
                                    \BKM@setup{#1}%
827
                                    \ensuremath{\tt def}\BKM@prev{\theta}\
                                    \global\advance\BKM@id\@ne
828
                                    \BKM@swtrue
829
                                    \@whilesw\ifBKM@sw\fi{%
830
                                          \def\BKM@abslevel{1}\%
831
                                          \label{lem:linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_lin
832
833
                                                 \BKM@startatrootfalse
834
                                                \verb|\expandafter\xdef\csname| BKM@\the\BKM@id\endcsname{% Constraints of the constraints 
835
                                                       0{\BKM@level}\BKM@abslevel
836
                                                }%
837
                                                \BKM@swfalse
838
                                          \else
                                                \expandafter\expandafter\BKM@getx
839
                                                              \csname BKM@\BKM@prev\endcsname
840
                                                \ifnum\BKM@level>\BKM@x@level\relax
841
                                                       \verb|BKM@CalcExpr\BKM@abslevel\BKM@x@abslevel+1\%|
842
                                                       \verb|\expandafter\xdef\csname| BKM@\the\BKM@id\endcsname{% Constraints of the constraints 
843
                                                              {\BKM@prev}{\BKM@level}\BKM@abslevel
844
                                                       }%
845
                                                        \BKM@swfalse
846
847
                                                \else
848
                                                        \let\BKM@prev\BKM@x@parent
849
                                                \fi
                                          ۱fi
850
851
                                    \csname HyPsd@XeTeXBigCharstrue\endcsname
852
                                    \pdfstringdef\BKM@title{\bookmark@text}%
853
                                    \edef\BKM@FLAGS{\BKM@PrintStyle}%
854
                                    \let\BKM@action\@empty
855
                                    \ifx\BKM@gotor\@empty
856
                                          \ifx\BKM@dest\@empty
857
858
                                                \ifx\BKM@named\@empty
859
                                                        \ifx\BKM@rawaction\@empty
                                                             \ifx\BKM@uri\@empty
860
                                                                    \ifx\BKM@page\@empty
861
                                                                            \PackageError{bookmark}{Missing action}\@ehc
862
                                                                            \edef\BKM@action{/Dest[@page1/Fit]}%
863
                                                                     \else
864
                                                                            \ifx\BKM@view\@empty
865
                                                                                  \def\BKM@view{Fit}\%
866
867
                                                                           \edef\BKM@action{/Dest[@page\BKM@page/\BKM@view]}%
868
869
                                                                    \fi
870
                                                              \else
                                                                    \BKM@EscapeString\BKM@uri
871
                                                                    \edef\BKM@action{%
872
                                                                          /A<<%
873
                                                                                  /S/URI%
874
875
                                                                                  /URI(\BKM@uri)%
                                                                           >>%
876
                                                                    }%
877
                                                              \fi
878
879
                                                        \else
880
                                                              \edef\BKM@action{/A<<\BKM@rawaction>>}%
                                                       ۱fi
881
                                                \else
882
```

```
\BKM@EscapeName\BKM@named
883
                                    \edef\BKM@action{%
884
                                        /A<</S/Named/N/\BKM@named>>%
885
886
887
                                \fi
888
                           \else
889
                                \verb|\BKM@EscapeString\BKM@dest||
890
                                \edef\BKM@action{%
                                    /A<<%
891
                                        /S/GoTo%
892
                                        /D(\BKM@dest)%
893
                                   >>%
894
                               }%
895
896
                           \fi
897
                       \else
898
                           \ifx\BKM@dest\@empty
899
                                \ifx\BKM@page\@empty
                                    \def\BKM@page{0}\%
900
                                \else
901
                                    \verb|BKM@CalcExpr\BKM@page\BKM@page-1%| \\
902
903
                                \fi
                                \ifx\BKM@view\@empty
904
                                    \def\BKM@view{Fit}\%
905
906
907
                                \ensuremath{\mbox{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{\mbox{$\sim$}}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mb
908
                            \else
                                \verb|\BKM@EscapeString\BKM@dest||
909
                                \verb|\edgn(D(\BKM@dest)|| % \\
910
911
                           \BKM@EscapeString\BKM@gotor
912
                           \ensuremath{\tt def}\BKM@action{}\%
913
914
                                /A<<%
915
                                   /S/GoToR%
                                    /F(\BKM@gotor)%
916
917
                                    \BKM@action
918
                                >>%
919
                          }%
920
                       \fi
921
                       \special{pdf:%
                          out \ifBKM@DvipdfmxOutlineOpen
922
923
                                        \ifBKM@open
924
                                             \label{lem:bkm@level<} $$ \prod_{x\in \mathbb{R}^n} BKM@level< % $$
925
                                                     \expandafter\ltx@firstofone\expandafter
926
927
                                                     {\number\BKM@openlevel} %
928
                                             \else
929
                                                -%
930
                                             \fi
931
                                        \else
                                            -%
932
                                        \fi
933
                                       ] %
934
                                    \fi
935
                                    \BKM@abslevel
936
                           <<%
937
938
                                /Title(\BKM@title)%
939
                                \ifx\BKM@color\@empty
940
                                \else
941
                                    /C[\BKM@color]%
942
                                \fi
                                \ifnum\BKM@FLAGS>\z@
943
                                    /F \BKM@FLAGS
944
```

```
\fi
                                    945
                                                               \BKM@action
                                    946
                                    947
                                    948
                                    949
                                                    \endgroup
                                    950
                                                \fi
                                    951 }
\BKM@getx
                                    952 \def\BKM@getx#1#2#3{%
                                    953 \def\BKM@x@parent{#1}%
                                                \def\BKM@x@level{#2}%
                                                \def\BKM@x@abslevel{#3}%
                                    956 }
                                    957 (/dvipdfm)
                                                Driver for VT<sub>E</sub>X
                                  3.3
                                    958 (*vtex)
                                    959 \NeedsTeXFormat{LaTeX2e}
                                    960 \ProvidesFile{bkm-vtex.def}%
                                    961 [2016/05/17 v1.26 bookmark driver for VTeX (HO)]%
                                    962 \ifvtexpdf
                                    963 \else
                                    964 \PackageWarningNoLine{bookmark}{%
                                    965
                                                   The VTeX driver only supports PDF mode%
                                    967 \fi
     \BKM@id
                                    968 \newcount\BKM@id
                                    969 \BKM@id=\z@
       \BKM@0
                                    970 \@namedef{BKM@0}{00}
\ifBKM@sw
                                    971 \newif\ifBKM@sw
   \bookmark
                                    972 \newcommand*{\bookmark}[2][]{%
                                              \if@filesw
                                    974
                                                   \begingroup
                                                        \def\bookmark@text{\#2}\%
                                    975
                                                        \BKM@setup{#1}%
                                    976
                                    977
                                                        \ensuremath{\tt def}\BKM@prev{\theta\BKM@id}\%
                                                        \global\advance\BKM@id\@ne
                                    978
                                                        \BKM@swtrue
                                    979
                                                        \@whilesw\ifBKM@sw\fi{%
                                    980
                                                           \label{lem:linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_linear_lin
                                    981
                                                               \BKM@startatrootfalse
                                    982
                                                               \def\BKM@parent{0}%
                                    983
                                                               \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
                                    984
                                    985
                                                                  0{\BKM@level}%
                                    986
                                                               }%
                                                               \BKM@swfalse
                                    987
                                    988
                                                           \else
                                                               \expandafter\expandafter\BKM@getx
                                    989
                                                                      \csname BKM@\BKM@prev\endcsname
                                    990
                                                               991
                                                                  \let\BKM@parent\BKM@prev
                                    992
```

```
\expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
  993
                                     {\BKM@prev}{\BKM@level}%
  994
                                 }%
  995
                                  \BKM@swfalse
  996
  997
                              \else
  998
                                  \let\BKM@prev\BKM@x@parent
  999
                              \fi
                          \fi
1000
                      }%
1001
                      \pdfstringdef\BKM@title{\bookmark@text}%
1002
                      \BKM@vtex@title
1003
                      \edef\BKM@FLAGS{\BKM@PrintStyle}%
1004
                      \let\BKM@action\@empty
1005
                      \ifx\BKM@gotor\@empty
1006
                          \ifx\BKM@dest\@empty
1007
1008
                              \ifx\BKM@named\@empty
1009
                                 \ifx\BKM@rawaction\@empty
1010
                                     \ifx\BKM@uri\@empty
                                         \ifx\BKM@page\@empty
1011
                                             \PackageError{bookmark}{Missing action}\@ehc
1012
                                             \def\BKM@action{!1}%
1013
                                         \else
1014
                                             \edef\BKM@action{!\BKM@page}%
1015
                                         \fi
1016
                                      \else
1017
1018
                                         \BKM@EscapeString\BKM@uri
1019
                                         \edef\BKM@action{%
                                             <u=%
1020
1021
                                                 /S/URI%
                                                /URI(\BKM@uri)%
1022
                                            >%
1023
1024
                                        }%
1025
                                     \fi
1026
                                     \ensuremath{\mbox{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{\mbox{\mbox{$\sim$}}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\mbox{$\sim$}}\ensuremath{\
1027
1028
                                 \fi
1029
                                 \BKM@EscapeName\BKM@named
1030
1031
                                 \edef\BKM@action{%
                                     <u=%
1032
                                         /S/Named%
1033
                                         /N/\BKM@named
1034
                                    >%
1035
1036
                                 }%
1037
                              \fi
1038
1039
                              \BKM@EscapeString\BKM@dest
1040
                              \edef\BKM@action{\BKM@dest}%
1041
                          \fi
1042
                      \else
                          \ifx\BKM@dest\@empty
1043
                              \ifx\BKM@page\@empty
1044
                                 1045
1046
                              \fi
                              \ifx\BKM@view\@empty
1047
1048
                                  \def\BKM@view{Fit}%
1049
1050
                              \verb|\edgn(BKM@action{D[\BKM@page/\BKM@view]}%| \\
1051
                              \BKM@EscapeString\BKM@dest
1052
                              \verb|\edgn(BKM@action{D(\BKM@dest)}|| \\
1053
1054
                          \fi
```

```
\BKM@EscapeString\BKM@gotor
                       1055
                                 \edef\BKM@action{%
                       1056
                                  <u=%
                       1057
                       1058
                                   /S/GoToR%
                        1059
                                   /F(\BKM@gotor)%
                       1060
                                   \BKM@action
                       1061
                                  >>%
                                }%
                       1062
                               \fi
                       1063
                               \ifx\BKM@color\@empty
                       1064
                                \let\BKM@RGBcolor\@empty
                       1065
                       1066
                                \expandafter\BKM@toRGB\BKM@color\@nil
                       1067
                        1068
                               \fi
                        1069
                               \special{%
                                !outline \BKM@action;%
                        1070
                                p=\BKM@parent,\%
                       1071
                                i=\nwedge \BKM@id,\%
                       1072
                                s=%
                       1073
                                  \ifBKM@open
                       1074
                                   \ifnum\BKM@level<\BKM@openlevel
                       1075
                       1076
                                    0%
                                   \else
                       1077
                                    с%
                       1078
                       1079
                                   \fi
                        1080
                                  \else
                                   с%
                       1081
                                  \fi,%
                       1082
                       1083
                                 \ifx\BKM@RGBcolor\@empty
                                 \else
                       1084
                       1085
                                  c=\BKM@RGBcolor,%
                       1086
                                 \ifnum\BKM@FLAGS>\z@
                       1087
                                 f=\BKM@FLAGS,%
                       1088
                       1089
                        1090
                                 t=\BKM@title
                        1091
                               }%
                       1092
                              \endgroup
                       1093 \fi
                       1094 }
           \BKM@getx
                        1095 \def\BKM@getx#1#2{%
                        1096 \def\BKM@x@parent{#1}%
                       1097 \def\BKM@x@level{#2}\%
                       1098 }
         \BKM@toRGB
                       1099 \def\BKM@toRGB#1 #2 #3\@nil{%
                       1100 \let\BKM@RGBcolor\@empty
                       1101 \BKM@toRGBComponent{#1}%
                       1102 \BKM@toRGBComponent{#2}%
                       1103 \BKM@toRGBComponent{#3}%
                       1104 }
\BKM@toRGBComponent
                       1105 \def\BKM@toRGBComponent#1{%
                       1106 \dimen@=#1pt\relax
                       1107 \ifdim\dimen@>\z@
                             \ifdim\dimen@<\p@
                       1108
                               \dimen@=255\dimen@
                       1109
                               1110
```

```
\divide\dimen@ by 65536\relax
                        1111
                                 \dimen@ii=\dimen@
                        1112
                                 \divide\dimen@ii by 16\relax
                        1113
                                 \edef\BKM@RGBcolor{%
                        1114
                        1115
                                  \BKM@RGBcolor
                        1116
                                  \BKM@toHexDigit\dimen@ii
                        1117
                                 }%
                        1118
                                 \dimen@ii=16\dimen@ii
                                 \advance\dimen@-\dimen@ii
                        1119
                                 \edef\BKM@RGBcolor{%
                        1120
                                  \BKM@RGBcolor
                        1121
                        1122
                                  \BKM@toHexDigit\dimen@
                                 }%
                        1123
                        1124
                               \else
                        1125
                                 \edef\BKM@RGBcolor{\BKM@RGBcolor FF}%
                        1126
                               \fi
                        1127
                              \else
                               \edef\BKM@RGBcolor(\BKM@RGBcolor00)\%
                        1128
                        1129 \fi
                        1130 }
    \BKM@toHexDigit
                        1131 \def\BKM@toHexDigit#1{%
                        1132 \ifcase\expandafter\@firstofone\expandafter{\number#1} \%
                        1133
                               0\ 1\or 2\ 3\or 4\ 5\or 6\ 7\or
                               8\or 9\or A\or B\or C\or D\or E\or F%
                        1134
                        1135 \fi
                        1136 }
                        1137 \begingroup
                        1138 \catcode`\|=0 %
                        1139
                              \catcode`\\=12 %
     \BKM@vtex@title
                        1140 | gdef | BKM@vtex@title{%
                        1141
                                | @onelevel@sanitize | BKM@title
                                | \verb|edef|| BKM@title{|| expandafter|| BKM@vtex@leftparen|| BKM@title|| (|| @nil)} \%
                        1142
                        1143
                                | \verb|edef|| BKM @ title {| expandafter|| BKM @ vtex @ rightparen|| BKM @ title \verb|\|) | @ nil } \% \\
                                | \verb|edef|| BKM@title{|| expandafter|| BKM@vtex@zero|| BKM@title{0}|| @nil}{\%} \\
                        1144
                                | \verb|edef|| BKM@title{|| expandafter|| BKM@vtex@one|| BKM@title\\| 1 | @nil\\| \%
                        1145
                        1146
                                |edef|BKM@title{|expandafter|BKM@vtex@two|BKM@title\2|@nil}%
                        1147
                                |edef|BKM@title{|expandafter|BKM@vtex@three|BKM@title\3|@nil}\% \\
                        1148 }%
 \BKM@vtex@leftparen
                              |gdef|BKM@vtex@leftparen#1\(#2|@nil{%
                        1149
                               #1%
                        1150
                               |ifx||#2||%
                        1151
                               else
                        1152
                        1153
                                 (%
                        1154
                                 |ltx@ReturnAfterFi{%
                        1155
                                  |BKM@vtex@leftparen#2|@nil
                                 }%
                        1156
                                Ιfi
                        1157
                        1158 }%
\BKM@vtex@rightparen
                              |gdef|BKM@vtex@rightparen#1\)#2|@nil{%
                        1159
                        1160
                               #1%
                               |ifx||#2||%
                        1161
                               else
                        1162
                                 )%
                        1163
```

```
|ltx@ReturnAfterFi{%
                    1164
                              |BKM@vtex@rightparen#2|@nil
                    1165
                    1166
                    1167
                           |fi
                    1168 }%
 \BKM@vtex@zero
                    1169
                          |gdef|BKM@vtex@zero#1\0#2|@nil{%}
                    1170
                           #1%
                    1171
                           |ifx||#2||%
                    1172
                           else
                             |noexpand|hv@pdf@char0%
                    1173
                             |ltx@ReturnAfterFi{%
                    1174
                              |BKM@vtex@zero#2|@nil
                    1175
                             }%
                    1176
                    1177
                           |fi
                    1178 }%
 \BKM@vtex@one
                          |gdef|BKM@vtex@one#1\1#2|@nil{%}
                    1179
                           #1%
                    1180
                           |ifx||#2||%
                    1181
                           lelse
                    1182
                             |noexpand|hv@pdf@char1%
                    1183
                             |ltx@ReturnAfterFi{%
                    1184
                    1185
                              |BKM@vtex@one#2|@nil
                    1186
                             }%
                    1187
                           |fi
                    1188 }%
 \BKM@vtex@two
                    1189
                          |gdef|BKM@vtex@two#1\2#2|@nil{%
                    1190
                           #1%
                    1191
                           |ifx||#2||%
                    1192
                           else
                             |noexpand|hv@pdf@char2%
                    1193
                             |ltx@ReturnAfterFi{%
                    1194
                              |BKM@vtex@two#2|@nil
                    1195
                             7%
                    1196
                           ۱fi
                    1197
                         }%
                    1198
\BKM@vtex@three
                          | \texttt{gdef} | \texttt{BKM@vtex@three\#1} \\ 3\#2 | \texttt{@nil} \\ \%
                    1199
                           #1%
                    1200
                           |ifx||#2||%
                    1201
                    1202
                             |noexpand|hv@pdf@char3%
                    1203
                             |ltx@ReturnAfterFi{%
                    1204
                    1205
                              |BKM@vtex@three#2|@nil
                    1206
                           |fi
                    1207
                    1208 }%
                    1209 | endgroup
                    1210 \langle /vtex \rangle
                    3.4 Driver for pdfTEX
                    1211 \langle *pdftex \rangle
                    1212 \NeedsTeXFormat{LaTeX2e}
                    1213 \ProvidesFile\{bkm-pdftex.def}\%
```

\BKM@DO@entry

```
1215 \def\BKM@DO@entry#1#2{%
     \begingroup
1216
      \kvsetkeys{BKM@DO}{#1}%
1217
1218
      \def\BKM@DO@title{#2}%
1219
      \ifx\BKM@DO@srcfile\@empty
1220
       \BKM@UnescapeHex\BKM@DO@srcfile
1221
1222
      \fi
      \BKM@UnescapeHex\BKM@DO@title
1223
      \expandafter\expandafter\expandafter\BKM@getx
1224
         \csname BKM@\BKM@DO@id\endcsname\@empty\@empty
1225
      \let\BKM@attr\@empty
1226
      \ifx\BKM@DO@flags\@empty
1227
1228
       \edef\BKM@attr{\BKM@attr/F \BKM@DO@flags}%
1229
1230
      \ifx\BKM@DO@color\@empty
1231
1232
       \verb|\edgh| BKM@attr{BKM@attr/C[\BKM@DO@color]}%|
1233
1234
      \ifx\BKM@attr\@empty
1235
1236
       \edef\BKM@attr{attr{\BKM@attr}}%
1237
1238
      \let\BKM@action\@empty
1239
      \ifx\BKM@DO@gotor\@empty
1240
1241
       \ifx\BKM@DO@dest\@empty
1242
         \ifx\BKM@DO@named\@empty
          \ifx\BKM@DO@rawaction\@empty
1243
           \ifx\BKM@DO@uri\@empty
1244
             \ifx\BKM@DO@page\@empty
1245
              \PackageError{bookmark}{%
1246
               Missing action\BKM@SourceLocation
1247
              }\@ehc
1248
              \edef\BKM@action{goto page1{/Fit}}%
1249
1250
             \else
1251
              \ifx\BKM@DO@view\@empty
1252
               \def\BKM@DO@view{Fit}%
1253
            \edef\BKM@action{goto page\BKM@DO@page{/\BKM@DO@view}}%
1254
             ۱fi
1255
            \else
1256
             \BKM@UnescapeHex\BKM@DO@uri
1257
             \BKM@EscapeString\BKM@DO@uri
1258
             \edef\BKM@action{user{<</S/URI/URI(\BKM@DO@uri)>>}}%
1259
           \fi
1260
1261
1262
           \BKM@UnescapeHex\BKM@DO@rawaction
1263
           \edef\BKM@action{%
1264
            user{%
              <<%
1265
               \BKM@DO@rawaction
1266
              >>%
1267
            }%
1268
           }%
1269
          \fi
1270
         \else
1271
1272
          \BKM@EscapeName\BKM@DO@named
1273
          \edef\BKM@action{%
           user{<</S/Named/N/BKM@DO@named>>}%
1274
```

```
1276
                                                                                             \fi
                                                                    1277
                                                                                         \else
                                                                                             \BKM@UnescapeHex\BKM@DO@dest
                                                                    1278
                                                                     1279
                                                                                             \BKM@DefGotoNameAction\BKM@action\BKM@DO@dest
                                                                    1280
                                                                                         \fi
                                                                     1281
                                                                    1282
                                                                                         \ifx\BKM@DO@dest\@empty
                                                                                             \ifx\BKM@DO@page\@empty
                                                                    1283
                                                                                                \def\BKM@DO@page{0}%
                                                                    1284
                                                                                             \else
                                                                    1285
                                                                                                \BKM@CalcExpr\BKM@DO@page\BKM@DO@page-1%
                                                                    1286
                                                                    1287
                                                                                             \ifx\BKM@DO@view\@empty
                                                                    1288
                                                                                                \def\BKM@DO@view{Fit}%
                                                                    1289
                                                                     1290
                                                                                             1291
                                                                    1292
                                                                                         \else
                                                                                             \BKM@UnescapeHex\BKM@DO@dest
                                                                    1293
                                                                    1294
                                                                                             \BKM@EscapeString\BKM@DO@dest
                                                                                             \ensuremath{\mbox{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{\mbox{$\sim$}}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mbox{$\sim$}}}\ensuremath{\mbox{\mb
                                                                    1295
                                                                                         \fi
                                                                    1296
                                                                                         \BKM@UnescapeHex\BKM@DO@gotor
                                                                    1297
                                                                                         \BKM@EscapeString\BKM@DO@gotor
                                                                    1298
                                                                                         \edef\BKM@action{%
                                                                    1299
                                                                     1300
                                                                                            user{%
                                                                     1301
                                                                                                <<%
                                                                     1302
                                                                                                   /S/GoToR%
                                                                     1303
                                                                                                   /F(\BKM@DO@gotor)%
                                                                                                   \verb|\BKM@action||
                                                                    1304
                                                                                               >>%
                                                                    1305
                                                                    1306
                                                                                            }%
                                                                    1307
                                                                                         }%
                                                                     1308
                                                                                     \fi
                                                                                      \verb|\pdfoutline| BKM@attr| BKM@action|
                                                                    1309
                                                                     1310
                                                                                                          count\ifBKM@DO@open\else-\fi\BKM@x@childs
                                                                     1311
                                                                                                          {\BKM@DO@title}%
                                                                    1312
                                                                                  \endgroup
                                                                    1313 }
\BKM@DefGotoNameAction Macro \BKM@DefGotoNameAction is a hook for package hypdestopt.
                                                                    1314 \def\BKM@DefGotoNameAction#1#2{%
                                                                    1315 \BKM@EscapeString\BKM@DO@dest
                                                                    1316 \edef#1{goto name{#2}}%
                                                                    1317 }
                                                                     1318 (/pdftex)
                                                                     1319 (*pdftex j pdfmark)
           \BKM@SourceLocation
                                                                     1320 \def\BKM@SourceLocation{%
                                                                                  \ifx\BKM@DO@srcfile\@empty
                                                                    1322
                                                                                     \ifx\BKM@DO@srcline\@empty
                                                                    1323
                                                                                      \else
                                                                                         .\MessageBreak
                                                                    1324
                                                                                         Source: line \BKM@DO@srcline
                                                                    1325
                                                                    1326
                                                                                     \fi
                                                                                  \else
                                                                    1327
                                                                                     \ifx\BKM@DO@srcline\@empty
                                                                    1328
                                                                                         .\MessageBreak
                                                                    1329
                                                                                         Source: file `\BKM@DO@srcfile'%
                                                                    1330
                                                                     1331
                                                                                      \else
```

}%

1275

```
1332
                                                                                  .\MessageBreak
                                                                                 Source: file `\BKM@DO@srcfile', line \BKM@DO@srcline
                                                           1333
                                                           1334
                                                           1335 \fi
                                                           1336 }
                                                           1337 (/pdftex j pdfmark)
                                                                          Drivers with pdfmark specials
                                                           3.5
                                                           3.5.1 Driver dvips
                                                           1338 \langle *dvips \rangle
                                                           1339 \NeedsTeXFormat{LaTeX2e}
                                                           1340 \ProvidesFile{bkm-dvips.def}%
                                                           1341 [2016/05/17 v1.26 bookmark driver for dvips (HO)]%
\BKM@PSHeaderFile
                                                           1342 \def\BKM@PSHeaderFile#1{%
                                                           1343 \special{header=#1}%
                                                           1344 }
                                                           1345 \langle /dvips \rangle
                                                           3.5.2 Driver dvipsone
                                                           1346 \langle *dvipsone \rangle
                                                           1347 \NeedsTeXFormat{LaTeX2e}
                                                           1348 \ProvidesFile{bkm-dvipsone.def}%
                                                           1349 [2016/05/17 v1.26 bookmark driver for dvipsone (HO)]%
\BKM@PSHeaderFile
                                                           1350 \def\BKM@PSHeaderFile#1{%
                                                           1351 \special{header=#1}%
                                                           1352 }
                                                           1353 (/dvipsone)
                                                           3.5.3 Driver textures
                                                           1354 (*textures)
                                                           1355 \NeedsTeXFormat{LaTeX2e}
                                                           1356 \ProvidesFile{bkm-textures.def}%
                                                           1357 [2016/05/17 v1.26 bookmark driver for textures (HO)]%
\BKM@PSHeaderFile
                                                           1358 \def\BKM@PSHeaderFile#1{%
                                                           1359 \special{prePostScriptfile \#1}%
                                                           1360 }
                                                           1361 (/textures)
                                                           3.5.4 Common part
                                                           1362 \langle *pdfmark \rangle
             \BKM@filename
                                                           1363 \ensuremath{\mbox{\sc loss}}\xspace 1363 \ensuremath{\mbox{\sc loss}}\x
                                                           1364 \BKM@PSHeaderFile\BKM@filename
                                                           1365 \RequirePackage{atveryend}[2009/12/07]
                                                           1366 \AfterLastShipout{\BKM@pdfmark@out}
```

```
\BKM@pdfmark@out Do not use package rerunfilecheck here, because the file \BKM@filename is not
                   read during the T_EX run.
                   1367 \def\BKM@pdfmark@out{%
                        \if@filesw
                   1368
                   1369
                          \newwrite\BKM@file
                          \immediate\openout\BKM@file=\BKM@filename\relax
                   1370
                          \BKM@write{\@percentchar!}%
                   1371
                          \BKM@write{/pdfmark where{pop}}%
                   1372
                   1373
                          \BKM@write{%
                   1374
                           {%
                            /globaldict where{pop globaldict}{userdict}ifelse%
                   1375
                            /pdfmark/cleartomark load put%
                   1376
                           }%
                   1377
                          1%
                   1378
                          \BKM@write{ifelse}%
                   1379
                        \else
                   1380
                          \let\BKM@write\@gobble
                   1381
                   1382
                          \let\BKM@DO@entry\@gobbletwo
                   1383 \fi
                   1384 }
       \BKM@write
                   1385 \def\BKM@write#{%
                   1386 \immediate\write\BKM@file
                   1387 }
                   The specification for pdfmark says that /Color is the name of the key for color,
  \BKM@DO@entry
                   however ghostscript only passes the key into the PDF file, thus the key name must
                   be /C.
                   1388 \def\BKM@DO@entry#1#2{%
                   1389
                        \begingroup
                          \kvsetkeys{BKM@DO}{#1}%
                   1390
                   1391
                          \ifx\BKM@DO@srcfile\@empty
                   1392
                           \BKM@UnescapeHex\BKM@DO@srcfile
                   1393
                          \fi
                   1394
                          \def\BKM@DO@title{#2}%
                   1395
                          \BKM@UnescapeHex\BKM@DO@title
                   1396
                          \expandafter\expandafter\BKM@getx
                   1397
                   1398
                            \csname BKM@\BKM@DO@id\endcsname\@empty\@empty
                   1399
                          \let\BKM@attr\@empty
                   1400
                          \ifx\BKM@DO@flags\@empty
                   1401
                           \edef\BKM@attr{\BKM@attr/F \BKM@DO@flags}%
                   1402
                   1403
                          \fi
                          \ifx\BKM@DO@color\@empty
                   1404
                   1405
                          \else
                           1406
                   1407
                          \let\BKM@action\@empty
                   1408
                          \ifx\BKM@DO@gotor\@empty
                   1409
                           \ifx\BKM@DO@dest\@empty
                   1410
                            \ifx\BKM@DO@named\@empty
                   1411
                   1412
                              \ifx\BKM@DO@rawaction\@empty
                   1413
                               \ifx\BKM@DO@uri\@empty
                   1414
                                \ifx\BKM@DO@page\@empty
                   1415
                                  \PackageError{bookmark}{%
                                   Missing action\BKM@SourceLocation
                   1416
                                 }\@ehc
                   1417
                                  \edef\BKM@action{%
                   1418
                                   /Action/GoTo%
                   1419
```

/Page 1%

```
/View[/Fit]%
1421
               }%
1422
             \else
1423
               \ifx\BKM@DO@view\@empty
1424
1425
                \def\BKM@DO@view{Fit}%
1426
               \fi
1427
               \edef\BKM@action{%
1428
                /Action/GoTo%
                /Page \BKM@DO@page
1429
                /View[/\BKM@DO@view]%
1430
              }%
1431
             \fi
1432
1433
            \else
             \BKM@UnescapeHex\BKM@DO@uri
1434
             \BKM@EscapeString\BKM@DO@uri
1435
1436
             \edef\BKM@action{%
1437
               /Action<<%
                /Subtype/URI%
1438
                /URI(\BKM@DO@uri)%
1439
1440
               >>%
             }%
1441
            \fi
1442
           \else
1443
            \BKM@UnescapeHex\BKM@DO@rawaction
1444
            \edef\BKM@action{%
1445
1446
             /Action<<%
               \BKM@DO@rawaction
1447
             >>%
1448
            }%
1449
           \fi
1450
         \else
1451
           \BKM@EscapeName\BKM@DO@named
1452
1453
           \edef\BKM@action{%
            /Action<<%
1454
             /Subtype/Named%
1455
1456
             /N/\BKM@DO@named
1457
            >>%
1458
          }%
1459
         \fi
1460
        \else
         \verb|\BKM@UnescapeHex\BKM@DO@dest||
1461
1462
         \verb|\BKM@EscapeString\BKM@DO@dest|\\
         \edef\BKM@action{%
1463
1464
           /Action/GoTo%
1465
           /Dest(\BKM@DO@dest)cvn%
1466
         }%
1467
        \fi
1468
       \else
1469
        \ifx\BKM@DO@dest\@empty
1470
         \ifx\BKM@DO@page\@empty
           \label{local_def} $$\def\BKM@DO@page{1}\%$
1471
1472
         \fi
         \ifx\BKM@DO@view\@empty
1473
           \def\BKM@DO@view{Fit}%
1474
1475
1476
         \edef\BKM@action{%
1477
           /Page \BKM@DO@page
1478
           /View[/\BKM@DO@view]%
1479
         }%
1480
         \verb|\BKM@UnescapeHex\BKM@DO@dest||
1481
         \BKM@EscapeString\BKM@DO@dest
1482
```

```
/Dest(\BKM@DO@dest)cvn%
            1484
            1485
            1486
            1487
                    \BKM@UnescapeHex\BKM@DO@gotor
                    \verb|\BKM@EscapeString\BKM@DO@gotor| \\
            1488
            1489
                    \edef\BKM@action{%
            1490
                     /Action/GoToR%
                     /File(\BKM@DO@gotor)%
            1491
                     \verb|\BKM@action||
            1492
                   }%
            1493
                  \fi
            1494
                  \BKM@write{[}%
            1495
                  \BKM@write{/Title(\BKM@DO@title)}%
            1496
                  \ifnum\BKM@x@childs>\z@
            1497
            1498
                   \BKM@write{/Count \ifBKM@DO@open\else-\fi\BKM@x@childs}%
            1499
                  \ifx\BKM@attr\@empty
            1500
                  \else
            1501
            1502
                   \BKM@write{\BKM@attr}%
            1503
                  \BKM@write{\BKM@action}%
            1504
                  \BKM@write{/OUT pdfmark}%
            1505
            1506
                 \endgroup
            1507 }
            1508 (/pdfmark)
                 Common part for pdftex and pdfmark
            1509 (*pdftex j pdfmark)
            3.6.1 Write auxiliary file
            1510 \RequirePackage{auxhook}
            1511 \AddLineBeginMainAux{%
            1512 \string\providecommand\string\BKM@entry[2]{}\%
            1513 }
 \BKM@id
            1514 \newcount\BKM@id
            1515 \BKM@id=\z@
  \BKM@0
            1516 \@namedef{BKM@0}{000}
\ifBKM@sw
            1517 \newif\ifBKM@sw
\bookmark
            1518 \newcommand*{\bookmark}[2][]{%
            1519 \if@filesw
                  \begingroup
            1520
            1521
                    \BKM@InitSourceLocation
            1522
                    \def\bookmark@text{#2}%
            1523
                    \BKM@setup{#1}%
            1524
                    \ifx\BKM@srcfile\@empty
            1525
                    \else
                     \BKM@EscapeHex\BKM@srcfile
            1526
            1527
                    \edef\BKM@prev{\the\BKM@id}%
            1528
                    \global\advance\BKM@id\@ne
            1529
                    \BKM@swtrue
            1530
```

\edef\BKM@action{%

1483

```
\@whilesw\ifBKM@sw\fi{%
                            1531
                                                1532
                            1533
                                                   \BKM@startatrootfalse
                                                   \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
                            1534
                            1535
                                                      0{\BKM@level}0%
                            1536
                                                   }%
                            1537
                                                   \BKM@swfalse
                            1538
                                                \else
                                                   \expandafter\expandafter\BKM@getx
                           1539
                                                         \csname BKM@\BKM@prev\endcsname
                            1540
                                                   \ifnum\BKM@level>\BKM@x@level\relax
                            1541
                                                      \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
                           1542
                                                         {\BKM@prev}{\BKM@level}0%
                            1543
                                                      }%
                            1544
                                                      \ \MODE \
                            1545
                                                         \BKM@CalcExpr\BKM@CalcResult\BKM@x@childs+1%
                            1546
                            1547
                                                         \expandafter\xdef\csname BKM@\BKM@prev\endcsname{%
                                                            {\BKM@x@parent}_{\BKM@x@level}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResult}_{\BKM@CalcResul
                            1548
                                                         }%
                           1549
                                                      \fi
                            1550
                                                      \BKM@swfalse
                            1551
                                                   \else
                            1552
                                                      \let\BKM@prev\BKM@x@parent
                            1553
                            1554
                                                   \fi
                                                \fi
                            1555
                            1556
                                             \pdfstringdef\BKM@title{\bookmark@text}%
                            1557
                            1558
                                             \edef\BKM@FLAGS{\BKM@PrintStyle}%
                            1559
                                             \csname BKM@HypDestOptHook\endcsname
                            1560
                                             \BKM@EscapeHex\BKM@dest
                                             \BKM@EscapeHex\BKM@uri
                            1561
                                             \BKM@EscapeHex\BKM@gotor
                            1562
                            1563
                                             \BKM@EscapeHex\BKM@rawaction
                            1564
                                             \BKM@EscapeHex\BKM@title
                                             \immediate\write\@mainaux{%
                            1565
                            1566
                                                \string\BKM@entry{%
                            1567
                                                   id=\number\BKM@id
                            1568
                                                   \ifBKM@open
                            1569
                                                      \ifnum\BKM@level<\BKM@openlevel
                            1570
                                                         ,open%
                                                      \fi
                            1571
                            1572
                                                   \fi
                                                   \BKM@auxentry{dest}%
                            1573
                            1574
                                                   \BKM@auxentry{named}%
                            1575
                                                   \BKM@auxentry{uri}%
                            1576
                                                   \BKM@auxentry{gotor}%
                            1577
                                                   \BKM@auxentry{page}%
                            1578
                                                   \BKM@auxentry{view}%
                            1579
                                                   \BKM@auxentry{rawaction}%
                            1580
                                                   \BKM@auxentry{color}%
                                                   1581
                                                      ,flags=\BKM@FLAGS
                            1582
                                                   ۱fi
                            1583
                           1584
                                                   \BKM@auxentry{srcline}%
                            1585
                                                   \BKM@auxentry{srcfile}%
                            1586
                                                }{\BKM@title}%
                            1587
                                             }%
                            1588
                                           \endgroup
                            1589
                                       \fi
                            1590 }
\BKM@getx
```

1591 \def\BKM@getx#1#2#3{\%

```
\def\BKM@x@parent{#1}%
                          1592
                               \def\BKM@x@level{#2}%
                               \def\BKM@x@childs{#3}%
                          1594
                          1595 }
         \BKM@auxentry
                          1596 \def\BKM@auxentry#1{%
                          1597
                               \expandafter\ifx\csname BKM@#1\endcsname\@empty
                          1598
                               \else
                          1599
                                ,#1={\csname BKM@#1\endcsname}%
                          1600 \fi
                          1601 }
\BKM@InitSourceLocation
                          1602 \def\BKM@InitSourceLocation{%
                          1603 \edef\BKM@srcline{\the\inputlineno}\%
                          1604
                               \BKM@LuaTeX@InitFile
                          1605
                               \ifx\BKM@srcfile\@empty
                                \ltx@IfUndefined{currfilepath}{}{%
                          1607
                                  \edef\BKM@srcfile{\currfilepath}%
                          1608
                                }%
                          1609 \fi
                          1610 }
 \BKM@LuaTeX@InitFile
                          1611 \ifluatex
                          1612 \ifnum\luatexversion>36 %
                          1613
                                \def\BKM@LuaTeX@InitFile{%
                          1614
                                  \begingroup
                                   \t CToksA={}\%
                          1615
                                  \edef\x{\endgroup
                          1616
                                   \def\noexpand\BKM@srcfile{%
                          1617
                                     \t \
                          1618
                          1619
                                     \directlua{%
                                      if status and status.filename then \%
                          1620
                          1621
                                        tex.settoks('ltx@LocToksA', status.filename)%
                          1622
                                       end%
                          1623
                                    }%
                          1624
                                   }%
                          1625
                                  }\x
                          1626
                                ٦%
                          1627
                               \else
                                \let\BKM@LuaTeX@InitFile\relax
                          1628
                          1629 \fi
                          1630 \else
                          1631 \let\BKM@LuaTeX@InitFile\relax
                          1632 \fi
                          3.6.2 Read auxiliary data
                          1633 \SetupKeyvalOptions{family=BKM@DO,prefix=BKM@DO@}
                          1634 \DeclareStringOption[0]{id}
                          1635 \DeclareBoolOption{open}
                          1636 \DeclareStringOption{flags}
                          1637 \DeclareStringOption{color}
                          1638 \DeclareStringOption{dest}
                          1639 \DeclareStringOption{named}
                          1640 \DeclareStringOption{uri}
                          1641 \DeclareStringOption{gotor}
                          1642 \DeclareStringOption{page}
                          1643 \DeclareStringOption{view}
```

1644 \DeclareStringOption{rawaction}

```
1645 \DeclareStringOption{srcline}
1646 \DeclareStringOption{srcfile}
1647 \AtBeginDocument{%
1648 \let\BKM@entry\BKM@DO@entry
1649 }
1650 (/pdftex j pdfmark)
```

3.7Option atend

3.7.1 Hook

```
1651 (*package)
1652 \ifBKM@atend
1653 \else
```

\BookmarkAtEnd This is a dummy definition that generates a warning if option atend has not been given.

```
\label{lookmarkAtEnd} $$\operatorname{AtEnd}[1]{\%} $$
1654
        \PackageWarning\{bookmark\}{\%}
1655
         Ignored, because option `atend' is missing%
1656
        7%
1657
      }%
1658
1659 \expandafter\endinput
1660 \fi
```

\BookmarkAtEnd

```
1661 \newcommand*{\BookmarkAtEnd}{%
    \g@addto@macro\BKM@EndHook
1663 }
1664 \let\BKM@EndHook\@empty
1665 (/package)
```

3.7.2 Drivers using hooks at end of document

The following drivers use package atveryend's \AfterLastShipout, because they still need the .aux file.

- Driver pdftex uses \pdfoutline that can be used after the last page.
- PostScript drivers such as dvips use an external PostScript header file for the bookmarks. File writing can be done after the last shipout page, but before the .aux file is closed.

```
1666 (*pdftex j pdfmark)
1667 \ifBKM@atend
1668 \AfterLastShipout{%
      \BKM@EndHook
1669
1670 }%
1671 \fi
1672 (/pdftex j pdfmark)
```

3.7.3 Drivers using \AtEndDvi

The other drivers implement \bookmark using \special commands. Thus the last bookmarks must be put on the last page, not afterwards. \AtEndDocument cannot be used, because it is too late, the last page can already be output. Therefore we use package atenddvi that uses the help of packages atbegshi and zref. The argument of \AtEndDvi is put at the end of the last page. At least two IATEX runs are necessary.

```
1673 (*dvipdfm j vtex)
```

```
1674 \ifBKM@atend
1675 \RequirePackage{atenddvi}%
1676 \AtEndDvi{\BKM@EndHook}%
1677 \fi
1678 \( / \dvipdfm \) vtex\
```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

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

CTAN:macros/latex/contrib/oberdiek/bookmark.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.

4.2 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/
```

4.3 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 bookmark.dtx

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

```
bookmark.stv
                        → tex/latex/oberdiek/bookmark.sty
bkm-dvipdfm.def
                        \rightarrow tex/latex/oberdiek/bkm-dvipdfm.def
bkm-dvips.def
                        \rightarrow tex/latex/oberdiek/bkm-dvips.def
                        → tex/latex/oberdiek/bkm-dvipsone.def
bkm-dvipsone.def
                        \rightarrow tex/latex/oberdiek/bkm-textures.def
bkm-textures.def
bkm-pdftex.def
                        \rightarrow tex/latex/oberdiek/bkm-pdftex.def
bkm-vtex.def

ightarrow tex/latex/oberdiek/bkm-vtex.def
bookmark.pdf
                        \rightarrow doc/latex/oberdiek/bookmark.pdf
\texttt{bookmark-example.tex} \rightarrow \texttt{doc/latex/oberdiek/bookmark-example.tex}
                        → source/latex/oberdiek/bookmark.dtx
bookmark.dtx
```

¹http://ctan.org/pkg/bookmark

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.

4.4 Refresh file name databases

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

4.5 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{bookmark.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 bookmark.dtx
makeindex -s gind.ist bookmark.idx
pdflatex bookmark.dtx
makeindex -s gind.ist bookmark.idx
pdflatex bookmark.dtx
```

5 Catalogue

The following XML file can be used as source for the TEX Catalogue. The elements caption and description are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is bookmark.xml.

```
1679 (*catalogue)
1680 <?xml version='1.0' encoding='us-ascii'?>
1681 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
1682 <entry datestamp='$Date$' modifier='$Author$' id='bookmark'>
1683
     <name>bookmark</name>
     <caption>A new bookmark (outline) organization for hyperref.
1684
     <authorref id='auth:oberdiek'/>
1685
     <copyright owner='Heiko Oberdiek' year='2007-2011'/>
1686
1687
     clicense type='lppl1.3'/>
1688
     <version number='1.26'/>
1689
     <description>
1690
      This package implements a new bookmark (outline) organization for
1691
       package xref refid='hyperref'>hyperref. Bookmark properties such
1692
       as style and color can now be set. Other action types
1693
       are available (URI, GoToR, Named). The bookmarks are
       generated in the first compile run. Package
1694
       <xref refid='hyperref'>hyperref</xref> uses two runs.
1695
1696
```

```
The package is part of the xref refid='oberdiek'>oberdiek
1697
1698
      bundle.
1699
     </description>
     <documentation details='Package documentation'</pre>
1700
        href='ctan:/macros/latex/contrib/oberdiek/bookmark.pdf'/>
1702 <ctan file='true' path='/macros/latex/contrib/oberdiek/bookmark.dtx'/>
1703
     <miktex location='oberdiek'/>
1704 <texlive location='oberdiek'/>
1705 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
1706 </entry>
1707 (/catalogue)
```

6 References

- Sebastian Rahtz, Heiko Oberdiek: The hyperref package; 2011/04/17 v6.82g;
 CTAN:macros/latex/contrib/hyperref/
- [2] Martin Scharrer: The currfile package; 2011/01/09 v0.4. CTAN:macros/latex/contrib/currfile/

7 History

[2007/02/19 v0.1]

• First experimental version.

[2007/02/20 v0.2]

- Option startatroot added.
- Dummies for \pdf(un)escape... commands added to get the package basically work for non-pdfTeX users.

[2007/02/21 v0.3]

• Dependency from pdfTeX 1.30 removed by using package pdfescape.

[2007/02/22 v0.4]

• hyperref's bookmarkstype respected.

[2007/03/02 v0.5]

- Driver options vtex (PDF mode), dvipsone, and textures added.
- Implementation of option depth completed. Division names are supported, see hyperref's option bookmarksdepth.
- hyperref's options bookmarksopen, bookmarksopenlevel, and bookmarksdepth respected.

[2007/03/03 v0.6]

· Option numbered as alias for hyperref's bookmarksnumbered.

[2007/03/07 v0.7]

• Dependency from ε -TEX removed.

[2007/04/09 v0.8]

- Option atend added.
- Option rgbcolor removed. rgbcolor=<r> <g> can be replaced by color=[rgb]{<r>,<g>,}.
- Support of recent cvs version (2007-03-29) of dvipdfmx that extends the \special for bookmarks to specify open outline entries. Option dvipdfmx-outline-open or \SpecialDvipdfmxOutlineOpen notify the package.

[2007/04/25 v0.9]

• The syntax of \special of dvipdfmx, if feature dvipdfmx-outline-open is enabled, has changed. Now cvs version 2007-04-25 is needed.

[2007/05/29 v1.0]

• Bug fix in code for second parameter of XYZ.

[2007/07/13 v1.1]

• Fix for pdfmark with GoToR action.

[2007/09/25 v1.2]

• pdfmark driver respects \nofiles.

[2008/08/08 v1.3]

- Package flags replaced by package bitset. Now flags are also supported without ε -TEX.
- Hook for package hypdestopt added.

[2008/09/13 v1.4]

 Fix for bug introduced in v1.3, package flags is one-based, but package bitset is zero-based. Thus options bold and italic are wrong in v1.3. (Daniel Müllner)

[2009/08/13 v1.5]

• Except for driver options the other options are now local options. This resolves a problem with KOMA-Script v3.00 and its option open.

[2009/12/06 v1.6]

• Use of package atveryend for drivers pdftex and pdfmark.

[2009/12/07 v1.7]

• Use of package atveryend fixed.

[2009/12/17 v1.8]

• Support of hyperref 2009/12/17 v6.79v for XaTeX.

[2010/03/30 v1.9]

• Package name in an error message fixed.

[2010/04/03 v1.10]

- Option style and macro \bookmarkdefinestyle added.
- Hook support with option addtohook added.
- \bookmarkget added.

[2010/04/04 v1.11]

• Bug fix (introduced in v1.10).

[2010/04/08 v1.12]

• Requires ltxcmds 2010/04/08.

[2010/07/23 v1.13]

• Support for memoir's \booknumberline added.

[2010/09/02 v1.14]

• (Local) options draft and final added.

[2010/09/25 v1.15]

- Fix for option dvipdfmx-outline-open.
- Option dvipdfmx-outline-open is set automatically, if XeTeX ≥ 0.9995 is detected.

[2010/10/19 v1.16]

- Option 'startatroot' now acts globally.
- Option 'level' also accepts names the same way as option 'depth'.

[2010/10/25 v1.17]

- \bookmarksetupnext added.
- Using \kvsetkeys of package kvsetkeys, because \setkeys of package keyval is not reentrant. This can cause problems (unknown keys) with older versions of hyperref that also uses \setkeys (found by GL).

[2010/11/05 v1.18]

 Use of \pdf@ifdraftmode of package pdftexcmds for the default of option draft.

[2011/03/20 v1.19]

- Use of \dimexpr fixed, if ε -TEX is not used. (Bug found by Martin Münch.)
- Fix in documentation. Also layout options work without ε -T_FX.

[2011/04/13 v1.20]

• Bug fix: \BKM@SetDepth renamed to \BKM@SetDepthOrLevel.

[2011/04/21 v1.21]

• Some support for file name and line number in error messages at end of document (pdfTeX and pdfmark based drivers).

[2011/05/13 v1.22]

 Change of version 2010/11/05 v1.18 reverted, because otherwise draftmode disables some .aux file entries.

[2011/09/19 v1.23]

• Some \renewcommands changed to \def to avoid trouble if the commands are not defined, because hyperref stopped early.

[2011/12/02 v1.24]

• Small optimization in \BKM@toHexDigit.

[2016/05/16 v1.25]

• Documentation updates.

[2016/05/17 v1.26]

• define \pdfbookmark to allow pdftex driver to be used with LuaTeX.

8 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 | 1473, 1500, 1524, 1597, 1605, 1664 |
|---|-------------------------------------|
| \" 33 | \@firstofone 532, 582, 1132 |
| \(1142, 1149 | \@gobble |
| \) 1143, 1159 | 437, 587, 802, 803, 804, 805, 1381 |
| \@bookmarksopenlevel 213 | \@gobbletwo 606, 1382 |
| \@car 227, 267, 421, 435 | \@ifundefined 537, 538, 560, 571 |
| \@ehc 383, 425, 574, 586, | \@mainaux 1565 |
| 731, 760, 770, 862, 1012, 1248, 1417 | \@namedef 564, 820, 970, 1516 |
| \@empty 121, 127, 133, 222, | \@ne |
| 363, 378, 388, 393, 442, 459, | \@nil 227, 267, 396, 398, 404, |
| 467, 475, 483, 501, 513, 523, | 407, 410, 413, 428, 440, 454, |
| 533, 855, 856, 857, 858, 859, | 456, 495, 497, 533, 535, 1067, 1099 |
| 860, 861, 865, 898, 899, 904, | \@onelevel@sanitize 226, |
| 939, 1005, 1006, 1007, 1008, | 266, 400, 432, 500, 512, 529, 578 |
| 1009, 1010, 1011, 1043, 1044, | \@percentchar 1371 |
| $1047, \ 1064, \ 1065, \ 1083, \ 1100,$ | \@undefined 664, 665 |
| 1219, 1225, 1226, 1227, 1231, | \@whilesw 830, 980, 1531 |
| 1235, 1239, 1240, 1241, 1242, | \\ 1139 |
| 1243, 1244, 1245, 1251, 1282, | \ 1138 |
| 1283, 1288, 1321, 1322, 1328, | |
| 1391, 1398, 1399, 1400, 1404, | Numbers |
| $1408,\ 1409,\ 1410,\ 1411,\ 1412,$ | \0 1144, 1169 |
| $1413, \ 1414, \ 1424, \ 1469, \ 1470,$ | \1 1145, 1179 |

| 1146 1100 | \DW.621 . |
|--|---|
| \2 1146, 1189 | \BKM@dest 857, |
| \3 1147, 1199 | 889, 893, 898, 909, 910, 1007, |
| | 1039, 1040, 1043, 1052, 1053, 1560 |
| A | \BKM@DisableOptions |
| \AddLineBeginMainAux 1511 | 202, 555, 635, 656, 681 |
| \advance 106, 828, 978, 1110, 1119, 1529 | \BKM@DO@color 1231, 1233, 1404, 1406 |
| \AfterLastShipout 1366, 1668 | \BKM@DO@dest |
| \AtBeginDocument 1647 | . 1241, 1278, 1279, 1282, 1293, |
| \AtEndDvi 1676 | 1294, 1295, 1315, 1410, 1461, |
| | 1462, 1465, 1469, 1481, 1482, 1484 |
| В | \BKM@DO@entry <u>1215</u> , 1382, <u>1388</u> , 1648 |
| \begin 19, 22 | |
| \belowpdfbookmark 692, <u>785</u> | \BKM@DO@flags 1227, 1229, 1400, 1402 |
| \bitsetClear 341, 348 | \BKM@DO@gotor 1240, 1297, |
| \bitsetGet 352, 355 | 1298, 1303, 1409, 1487, 1488, 1491 |
| \bitsetGetDec 358 | \BKM@DO@id 1225, 1398 |
| \bitsetReset 336 | \BKM@DO@named |
| \bitsetSet 339, 346 | 1242, 1272, 1274, 1411, 1452, 1456 |
| \BKM@0 <u>820, 970, 1516</u> | \BKM@DO@page |
| \BKM@@@PatchHyperrefOption 325, 327 | . 1245, 1254, 1283, 1284, 1286, |
| \BKM@@CalcParam 533, 535 | 1291, 1414, 1429, 1470, 1471, 1477 |
| \BKM@@CheckRect 454 , $\overline{456}$ | \BKM@DO@rawaction |
| \BKM@@CheckXYZ 495, 497 | 1243, 1262, 1266, 1412, 1444, 1447 |
| \BKM@@page 389 | \BKM@DO@srcfile 1219, |
| \BKM@@PatchHyperrefOption 322, 324 | 1221, 1321, 1330, 1333, 1391, 1393 |
| \BKM@abslevel . 831, 835, 842, 844, 936 | |
| \BKM@action | \BKM@DO@srcline |
| . 855, 863, 868, 872, 880, 884, | |
| 890, 907, 910, 913, 917, 946, | \BKM@DO@title |
| 1005, 1013, 1015, 1019, 1027, | 1218, 1223, 1311, 1395, 1396, 1496 |
| 1031, 1040, 1050, 1053, 1056, | \BKM@DO@uri 1244 , 1257 , |
| 1060, 1070, 1239, 1249, 1254, | 1258, 1259, 1413, 1434, 1435, 1439 |
| 1259, 1263, 1273, 1279, 1291, | \BKM@DO@view 1251 , |
| 1295, 1299, 1304, 1309, 1408, | 1252, 1254, 1288, 1289, 1291, |
| | 1424, 1425, 1430, 1473, 1474, 1478 |
| 1418, 1427, 1436, 1445, 1453, 1463, 1476, 1483, 1489, 1492, 1504 | \BKM@driver 633, 659, 662, 714, 715, |
| \BKM@attr | 719, 722, 724, 727, 736, 739, |
| . 1226, 1229, 1233, 1235, 1237, | 742, 747, 750, 753, 756, 766, 768 |
| | \BKM@DvipdfmxOutlineOpentrue . |
| 1309, 1399, 1402, 1406, 1500, 1502 | |
| \BKM@auxentry | \BKM@EndHook 1662, 1664, 1669, 1676 |
| | \BKM@entry 1512, 1566, 1648 |
| 1578, 1579, 1580, 1584, 1585, <u>1596</u> | |
| \BKM@CalcExpr | \BKM@EscapeHex |
| 101, 299, 782, 842, 902, 1286, 1546 | 1526, 1560, 1561, 1562, 1563, 1564 |
| \BKM@CalcParam 449, | \BKM@EscapeName |
| 463, 471, 479, 487, 506, 518, <u>530</u> | 120, 883, 1030, 1272, 1452 |
| \BKM@CalcResult . 782, 783, 1546, 1548 | \BKM@EscapeString |
| \BKM@CheckParam | . <u>126</u> , 871, 889, 909, 912, 1018, |
| \dots 404, 407, 410, 413, $\frac{440}{170}$, 440 | $1039, \ 1052, \ 1055, \ 1258, \ 1294,$ |
| \BKM@CheckRect 416, 453, 453 | 1298, 1315, 1435, 1462, 1482, 1488 |
| \BKM@CheckView 391, 395, 395 | \BKM@file 1369, 1370, 1386 |
| \BKM@CheckViewType 396 , 398 | \BKM@filename <u>1363</u> , <u>1364</u> , <u>1370</u> |
| \BKM@CheckXYZ 419, <u>494</u> | \BKM@FLAGS 854, 943, 944, |
| \BKM@color | 1004, 1087, 1088, 1558, 1581, 1582 |
| 361, <u>363</u> , 364, 939, 941, 1064, 1067 | \BKM@getx |
| \BKM@currentlevel $190, 259,$ | 989, <u>1095</u> , 1224, 1397, 1539, <u>1591</u> |
| $289, 299, \underline{302}, 779, 782, 786, 788$ | |
| \BKM@DefGotoNameAction | \BKM@gotor 856, |
| $\dots \dots $ | 912, 916, 1006, 1055, 1059, 1562 |
| \BKM@DefineDriverKey . $\underline{631}$, 640 , | \BKM@gtemp 786, 788 |
| 641, 642, 643, 644, 645, 646, 647 | \BKM@hook 187, <u>618</u> , 620 |
| \BKM@depth | \BKM@HookNext 182, 184, 194, 197, <u>199</u> |
| . 216, 218, 223, 240, 243, 249, 791 | \BKM@HookNextClear 185, <u>196</u> , 199 |
| | |

| \ | \ |
|--|---|
| \BKM@id <u>818</u> , 827, 828, 834, 843, | \BKM@StyleEntryCheck 579 , $\underline{609}$ |
| <u>968,</u> 977, 978, 984, 993, 1072, | \BKM@StyleStack |
| <u>1514</u> , 1528, 1529, 1534, 1542, 1567 | \dots 580, 591, 593, 605, 606, <u>615</u> |
| \BKM@InitSourceLocation . 1521, $\underline{1602}$ | \BKM@StyleStackPop 599, <u>603</u> |
| \BKM@level | \BKM@swfalse |
| . 190, 263, 280, 283, 299, 301, | 837, 846, 987, 996, 1537, 1551 |
| 835, 841, 844, 925, 985, 991, | \BKM@swtrue 829, 979, 1530 |
| 994, 1075, 1535, 1541, 1543, 1569 | \BKM@temp 227, 228, |
| \BKM@LuaTeX@InitFile 1604, 1611 | 229, 230, 267, 268, 269, 270, |
| \BKM@MacroCurrentLevel 262, 289 | 365, 371, 372, 373, 374, 375, |
| \BKM@named | 431, 432, 433, 434, 457, 461, |
| 858, 883, 885, 1008, 1030, 1034 | 469, 477, 485, 490, 499, 500, |
| \BKM@nil | 504, 511, 512, 516, 610, 611, |
| \BKM@null 502, 504, 514, 516, 524, <u>528</u> | 713, 714, 717, 719, 724, 727, |
| | 734, 736, 742, 745, 747, 753, 756 |
| | |
| \BKM@numberedtrue 306 | \BKM@TestViewType 401, 402, 403, 406, 409, 412, 415, 418, 430 |
| \BKM@okfalse 612 | |
| \BKM@oktrue 576 | \BKM@title 853, |
| \BKM@openlevel <u>213, 927, 1075, 1569</u> | 938, 1002, 1090, 1557, 1564, 1586 |
| \BKM@page 377, 378, 380, 381, 384, | \BKM@toHexDigit 1116, 1122, 1131 |
| <u>388</u> , 861, 868, 899, 900, 902, | \BKM@toRGB 1067, <u>1099</u> |
| 907, 1011, 1015, 1044, 1045, 1050 | \BKM@toRGBComponent |
| \BKM@param 221, 222, 225, 226, 227, | $\dots \dots 1101, 1102, 1103, \underline{1105}$ |
| 236, 240, 244, 261, 262, 263, | \BKM@type 399, |
| 265, 266, 267, 276, 280, 284, | 400, 423, 433, 444, 491, 793, 794 |
| 441, 442, 447, 451, 458, 459, | \BKM@UnescapeHex |
| 460, 465, 466, 467, 468, 473, | 138, 1221, 1223, 1257, |
| 474, 475, 476, 481, 482, 483, | 1262, 1278, 1293, 1297, 1393, |
| 484, 489, 498, 499, 501, 502, | 1396, 1434, 1444, 1461, 1481, 1487 |
| 509, 510, 511, 513, 514, 521, | \BKM@uri 860, |
| 522, 523, 524, 526, 533, 547, 549 | 871, 875, 1010, 1018, 1022, 1561 |
| \BKM@parent 983, 992, 1071 | \BKM@view <u>393</u> , <u>394</u> , |
| \BKM@PatchHyperrefOption | 426, 434, 451, 465, 473, 481, |
| 321, 333, 334, 335 | 489, 509, 521, 526, 865, 866, |
| \BKM@pdfmark@out 1366, <u>1367</u> | 868, 904, 905, 907, 1047, 1048, 1050 |
| \BKM@prev | \BKM@vtex@leftparen 1149 |
| 827, 832, 840, 844, 848, 977, | \BKM@vtex@one <u>1179</u> |
| 981, 990, 992, 994, 998, 1528, | \BKM@vtex@rightparen $\dots $ 1159 |
| 1532, 1540, 1543, 1545, 1547, 1553 | \BKM@vtex@three <u>1199</u> |
| \BKM@PrintStyle . <u>357</u> , 854, 1004, 1558 | \BKM@vtex@title 1003, <u>1140</u> |
| \BKM@PSHeaderFile | \BKM@vtex@two |
| 1342, 1350, 1358, 1364 | \BKM@vtex@zero 1169 |
| \BKM@rawaction | \BKM@write 1371, |
| 859, 880, 1009, 1027, 1563 | 1372, 1373, 1379, 1381, <u>1385</u> , |
| \BKM@RGBcolor | |
| 1065, 1083, 1085, 1100, | 1495, 1496, 1498, 1502, 1504, 1505 |
| | 1495, 1496, 1498, 1502, 1504, 1505 \BKM@x@abslevel 842, 955 |
| | \BKM@x@abslevel 842, 955 |
| $1114, \ 1115, \ 1120, \ 1121, \ 1125, \ 1128$ | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel 842, 955 \BKM@x@childs 1310, 1497, 1498, 1546, 1594 \BKM@x@level 841, 954, 991, 1097, 1541, 1548, 1593 \BKM@x@parent 848, 953, 998, 1096, 1548, 1553, 1592 \bookmark 15, 16, 26, 62, 63, 64, 65, 67, 71, 75, 79, 85, 86, 87, 88, 89, 94, 693, 775, 807, 822, 972, 1518 \bookmark@bold 354 \bookmark@color 364 \bookmark@depth 249 |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel 842, 955 \BKM@x@childs 1310, 1497, 1498, 1546, 1594 \BKM@x@level 841, 954, 991, 1097, 1541, 1548, 1593 \BKM@x@parent 848, 953, 998, 1096, 1548, 1553, 1592 \bookmark 15, 16, 26, 62, 63, 64, 65, 67, 71, 75, 79, 85, 86, 87, 88, 89, 94, 693, 775, 807, 822, 972, 1518 \bookmark@bold 354 \bookmark@color 364 \bookmark@depth 249 \bookmark@dest 371 |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel 842, 955 \BKM@x@childs 1310, 1497, 1498, 1546, 1594 \BKM@x@level 841, 954, 991, 1097, 1541, 1548, 1593 \BKM@x@parent 848, 953, 998, 1096, 1548, 1553, 1592 \bookmark 15, 16, 26, 62, 63, 64, 65, 67, 71, 75, 79, 85, 86, 87, 88, 89, 94, 693, 775, 807, 822, 972, 1518 \bookmark@bold 354 \bookmark@color 364 \bookmark@depth 249 \bookmark@dest 371 \bookmark@driver |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel 842, 955 \BKM@x@childs 1310, 1497, 1498, 1546, 1594 \BKM@x@level 841, 954, 991, 1097, 1541, 1548, 1593 \BKM@x@parent 848, 953, 998, 1096, 1548, 1553, 1592 \bookmark 15, 16, 26, 62, 63, 64, 65, 67, 71, 75, 79, 85, 86, 87, 88, 89, 94, 693, 775, 807, 822, 972, 1518 \bookmark@bold 354 \bookmark@color 364 \bookmark@depth 249 \bookmark@dest 371 \bookmark@driver |
| 1114, 1115, 1120, 1121, 1125, 1128 \BKM@SetDepthOrLevel | \BKM@x@abslevel 842, 955 \BKM@x@childs 1310, 1497, 1498, 1546, 1594 \BKM@x@level 841, 954, 991, 1097, 1541, 1548, 1593 \BKM@x@parent 848, 953, 998, 1096, 1548, 1553, 1592 \bookmark 15, 16, 26, 62, 63, 64, 65, 67, 71, 75, 79, 85, 86, 87, 88, 89, 94, 693, 775, 807, 822, 972, 1518 \bookmark@bold 354 \bookmark@color 364 \bookmark@depth 249 \bookmark@dest 371 \bookmark@driver |

| $\begin{tabular}{ll} \begin{tabular}{ll} \beg$ | \endcsname 102, 244, 284, 322, |
|--|--|
| $\verb \bookmark@named$ | 338, 345, 367, 368, 597, 628, |
| \bookmark@numbered 318 | 649, 650, 834, 840, 843, 852, |
| \bookmark@open 209 | 984, 990, 993, 1225, 1398, 1534, |
| \bookmark@page 389 | 1540, 1542, 1547, 1559, 1597, 1599 |
| \bookmark@rawaction 375 | \endinput 697, 732, 761, 771, 1659 |
| \bookmark@text | , |
| | ${f G}$ |
| 825, 853, 975, 1002, 1522, 1557 | \g@addto@macro 306, |
| \bookmark@uri <u>373</u> | 309, 312, 315, 555, 635, 656, 1662 |
| \bookmark@view 394 | 303, 312, 310, 000, 000, 000, 1002 |
| \BookmarkAtEnd 7, 13, 685, <u>1654</u> , <u>1661</u> | Н |
| \bookmarkdefinestyle $6, \underline{559}, 686$ | \hbox |
| \BookmarkDriverDefault <u>661</u> , 676 | |
| \bookmarkget $6, 622, 622, 687$ | |
| \bookmarksetup $11, 14, 35, 40, 46, 52,$ | · • |
| 57, 61, <u>179</u> , 181, 184, 330, 595, 684 | ž – 1 |
| \bookmarksetupnext <u>193</u> | \Hy@bookmarksnumberedfalse 315 |
| \booknumberline 798, 803 | \Hy@bookmarksnumberedtrue 312 |
| | \Hy@bookmarkstype 794 |
| \mathbf{C} | \Hy@numberline 797, 798, 799, 800 |
| \c@tocdepth 214, 216, 223 | \Hy@writebookmark 694, 790 |
| \calc | \HyColor@BookmarkColor 361 |
| \catcode 1138, 1139 | \hyper@anchorend 776 |
| \chapternumberline 800, 805 | \hyper@anchorstart 776 |
| \chardef | \hypertarget 23 |
| \count@ 105, 106, 108, 253, 257 | _ |
| \csname 103, 100, 103, 233, 237 | I |
| | \if@filesw 823, 973, 1368, 1519 |
| 338, 345, 367, 368, 597, 628, | \ifBKM@atend 1652, 1667, 1674 |
| 649, 650, 834, 840, 843, 852, | \ifBKM@DO@open 1310, 1498 |
| 984, 990, 993, 1225, 1398, 1534, | \ifBKM@draft 682 |
| 1540, 1542, 1547, 1559, 1597, 1599 | \ifBKM@DvipdfmxOutlineOpen 699, 922 |
| \ 16 11- | |
| \currentpdfbookmark 690, 778 | \ifBKM@keeplevel 188 |
| \currentpdfbookmark 690, <u>778</u> \currfilepath 1607 | |
| \currfilepath 1607 | \ifBKM@keeplevel 188 |
| \currfilepath | \ifBKM@keeplevel |
| \currfilepath 1607 D \DeclareBoolOption | \ifBKM@keeplevel |
| \currfilepath | \ifBKM@keeplevel 188 \ifBKM@numbered 313, 316, 319, 796 \ifBKM@ok 569, 581 \ifBKM@open 210, 924, 1074, 1568 \ifBKM@startatroot 293, 296, 832, 981, 1532 \ifBKM@sw 821, 830, 971, 980, 1517, 1531 \ifcase 228, 268, 1132 |
| \currfilepath | \ifBKM@keeplevel 188 \ifBKM@numbered 313, 316, 319, 796 \ifBKM@ok 569, 581 \ifBKM@open 210, 924, 1074, 1568 \ifBKM@startatroot 293, 296, 832, 981, 1532 \ifBKM@sw 821, 830, 971, 980, 1517, 1531 |
| \currfilepath | \ifBKM@keeplevel |
| \currfilepath | \ifBKM@keeplevel 188 \ifBKM@numbered 313, 316, 319, 796 \ifBKM@ok 569, 581 \ifBKM@open 210, 924, 1074, 1568 \ifBKM@startatroot 293, 296, 832, 981, 1532 \ifBKM@sw 821, 830, 971, 980, 1517, 1531 \ifcase 228, 268, 1132 \ifdim 702, 1107, 1108 |
| D \DeclareBoolOption | \ifBKM@keeplevel |
| D \DeclareBoolOption | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| D \DeclareBoolOption | \ifBKM@keeplevel 188 \ifBKM@numbered 313, 316, 319, 796 \ifBKM@ok 569, 581 \ifBKM@open 210, 924, 1074, 1568 \ifBKM@startatroot 293, 296, 832, 981, 1532 \ifBKM@sw 821, 830, 971, 980, 1517, 1531 \ifcase 228, 268, 1132 \ifdim 702, 1107, 1108 \iffalse 293, 310, 316 \iffHy@bookmarksnumbered 304, 307, 310 \iffHy@bookmarksnumbered 208 \ifluatex 1611 \ifnum 229, |
| D \DeclareBoolOption | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| D \DeclareBoolOption | \ifBKM@keeplevel |

| 1010, 1011, 1043, 1044, 1047, | \PackageWarning 235, 275, 443, 491, 1655 |
|---|---|
| 1064, 1083, 1219, 1227, 1231, | \PackageWarningNoLine |
| 1235, 1240, 1241, 1242, 1243, | 683, 721, 738, 749, 964 |
| 1244, 1245, 1251, 1282, 1283, | \paperheight 73 |
| 1288, 1321, 1322, 1328, 1391, | \part 49 |
| 1400, 1404, 1409, 1410, 1411, | \partnumberline 799, 804 |
| 1412, 1413, 1414, 1424, 1469, | \pdfbookmark 688, 689, <u>773</u> , 779, 783 |
| 1470, 1473, 1500, 1524, 1597, 1605 | \pdfextension 665, 666 |
| \ifxetex 670, 701, 735 | \pdfoutline 664, 666, 1309 |
| \immediate 1370, 1386, 1565 | \pdfstringdef 853, 1002, 1557 |
| \InputIfFileExists 660, 766 | \ProcessKeyvalOptions 680 |
| \inputlineno 1603 | \protected 666 |
| | \providecommand 661, 1512 |
| ${f J}$ | \ProvidesFile |
| \jobname 1363 | . 816, 960, 1213, 1340, 1348, 1356 |
| 17 | \ProvidesPackage 99 |
| K | |
| \kvsetkeys 179, 1217, 1390 | \mathbf{R} |
| ${f L}$ | \ReadBookmarks 695, <u>812</u> |
| \ltx@empty 182, 197 | \renewcommand 694 |
| \ltx@firstofone 926 | \RequirePackage 119, 141, 142, |
| \ltx@GlobalAppendToMacro 194 | $143, \ 144, \ 145, \ 146, \ 147, \ 148,$ |
| \ltx@gobble 684, 685, 687 | 149, 150, 151, 152, 1365, 1510, 1675 |
| \ltx@gobbletwo . 686, 690, 691, 692, 696 | \romannumeral 623 |
| \ltx@IfUndefined 215, 225, 265, 700, 1606 | ~ |
| \ltx@ifundefined | \mathbf{S} |
| \ltx@LocalAppendToMacro 620 | \section 20, 39, 50, 55 |
| \ltx@LocToksA 1615, 1618 | \setbox |
| \ltx@one 210, 319, 352, 355, 704 | \setlength 539, 541, 544 |
| \ltx@space 625, 627 | \SetupKeyvalOptions 153, 1633 |
| \ltx@undefined 688, 773 | \space 451, |
| \ltx@zero 210, 319, 352, 355 | 465, 473, 481, 489, 509, 521, 526 |
| \luatexversion | \special 921, 1069, 1343, 1351, 1359 |
| | \SpecialDvipdfmxOutlineOpen |
| \mathbf{M} | 651, 653, 704, 709 |
| \maxdimen 212 | \ss |
| \MessageBreak | \strip@pt 547 |
| $\dots 236, 276, 423, 444, 729,$ | \subpdfbookmark 691, <u>781</u> , 787 |
| 739, 750, 758, 768, 1324, 1329, 1332 | \subsection 21, 31, 33, 45, 56 \subsubsection 32, 51 |
| N | \subsubsection 32, 31 |
| \NeedsTeXFormat 98, | ${f T}$ |
| 815, 959, 1212, 1339, 1347, 1355 | \the 108, 115, |
| \newcommand 179, 193, 559, 622, 689, | 257, 827, 834, 843, 977, 984, |
| 693, 774, 822, 972, 1518, 1654, 1661 | 993, 1528, 1534, 1542, 1603, 1618 |
| \newcount | \topmargin |
| \newif 569, 699, 821, 971, 1517 | 1 0 |
| \newpage 34 | \mathbf{U} |
| \newwrite 1369 | \usepackage 3, 4, 5 |
| \number 213, | |
| 380, 702, 786, 927, 1072, 1132, 1567 | \mathbf{W} |
| \numberline | \write 1386, 1565 |
| \numexpr 115 | |
| | X |
| 0 | \x 107, 110, 1616, 1625 |
| \openout 1370 | \XeTeXrevision 702 |
| D | \XeTeXversion 702 |
| P | ${f z}$ |
| \p@ 1108 | |
| \PackageError 383, 422, 572, 584, | \z@ 252, 381, 490, 653, 709, 819, 832, 943, 969, 981, 1087, |
| 728, 757, 767, 862, 1012, 1246, 1415 | 013, 034, 343, 303, 301, 1007, |
| \PackageInfo 562 | 1107, 1497, 1515, 1532, 1545, 1581 |