The bookmark package

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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.

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

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	[201	0/10/25	v1.17								 							48
		0/11/05	-								 							48
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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 TFX 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:

- \usepackage [\(\langle options \rangle\)] \{\text{bookmark}\}
 This is the only place for driver options and option atend.
- 2. $\langle options \rangle$ This command is just for setting options.
- \bookmarksetupnext{\(\langle options\)\}\)
 The options are stored and called after the options of the next \(\bookmark\) command.
- 4. \bookmark[\langle options \rangle] \{\langle title \rangle} \text{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 \BookmarkDriverDefault, e.g.:

\def\BookmarkDriverDefault{dvipdfm}

Open bookmarks with dvipdfmx. Since 2007-04-25 the cvs version of dvip-mdfmx 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 occurence 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 LuaT_EX (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).

rellevel: 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 \bookmark.

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

```
\begin{center} \beg
```

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 \iffinim or \iffcase. 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 \AfterLastShipout.

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 LaTeX 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 \langle *example \rangle
2 \documentclass{article}
3 \usepackage{xcolor}[2007/01/21]
4 \usepackage{hyperref}
5 \usepackage[
6 open,
7 openlevel=2,
   atend
9 ]{bookmark}[2019/12/03]
11 \bookmarksetup{color=blue}
13 \BookmarkAtEnd{%
    \bookmarksetup{startatroot}%
    \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 \subsubsection {Subsubsection C}
33 \subsection{Umlauts: \"A\"O\"U\"a\"o\"u\ss}
34 \newpage
35 \bookmarksetup{
36 bold,
    color=[rgb]{1,0,0}
37
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
     \bookmarksetup{level=0, color=green!80!black}
     \bookmark[named=FirstPage]{First page}
     \bookmark[named=LastPage]{Last page}
 63
     \bookmark[named=PrevPage]{Previous page}
      \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,
     view=FitBH \calc{\paperheight-\topmargin-1in-\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)
     Implementation
      Package
3.1
 97 (*package)
 98 \NeedsTeXFormat{LaTeX2e}
 99 \ProvidesPackage{bookmark}%
    [2019/12/03 v1.28 PDF bookmarks (HO)]%
3.1.1 Requirements
\varepsilon-T<sub>F</sub>X.
101 \begingroup\expandafter\expandafter\expandafter\endgroup
102 \expandafter\ifx\csname numexpr\endcsname\relax
     \def\BKM@CalcExpr#1#2#3#4{%
```

\BKM@CalcExpr

104

\begingroup

```
105
           \c \c = #2\relax
106
           \advance\count@ by#3#4\relax
107
           \edef\x{\endgroup
             \def\noexpand#1{\the\count@}%
108
109
110
        \x
     }%
111
112 \ensuremath{\setminus} \texttt{else}
     \def\BKM@CalcExpr#1#2#3#4{%
113
        \edef#1{%
114
115
           \theta = \frac{2#3#4}{elax}
116
        }%
117
    }%
118 \fi
```

Escape features of pdfTFX.

\BKM@EscapeName

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

\BKM@EscapeString

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

126 \ifx#1\@empty

127 \else

128 \EdefEscapeString#1#1%

129 \fi

130 }%
```

\BKM@EscapeHex

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

\BKM@UnescapeHex

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

Packages. Don't load packages loaded by xpackagehyperref 140 \RequirePackage{hyperref} [2010/06/18]

3.1.2 Package options

```
141 \SetupKeyvalOptions{family=BKM,prefix=BKM@}
142 \DeclareLocalOptions{%
143         atend,%
144         bold,%
145         color,%
146         depth,%
```

```
147 dest,%
                    148 draft,%
                    149 final,%
                    gotor,%
                    151
                         italic,%
                    152 keeplevel,%
                         level,%
                    153
                    154 named,%
                    155 numbered, %
                        open,%
                    156
                    157
                         openlevel,%
                    158 page,%
                    159 rawaction,%
                    160 rellevel,%
                    srcfile,%
                    162
                         srcline,%
                    163
                         startatroot,%
                    164
                         uri,%
                         view,%
                    165
                    166 }
   \bookmarksetup
                    167 \newcommand*{\bookmarksetup}{\kvsetkeys{BKM}}}
       \BKM@setup
                    168 \def\BKM@setup#1{%
                    169
                         \bookmarksetup{#1}%
                    170
                         \ifx\BKM@HookNext\ltx@empty
                    171
                           \expandafter\bookmarksetup\expandafter{\BKM@HookNext}%
                    172
                    173
                           \BKM@HookNextClear
                    174
                         \BKM@hook
                    175
                         \ifBKM@keeplevel
                    176
                    177
                         \else
                           \xdef\BKM@currentlevel{\BKM@level}%
                    178
                    179
                         \fi
                    180 }
\bookmarksetupnext
                    181 \newcommand*{\bookmarksetupnext}[1]{%
                    182 \ltx@GlobalAppendToMacro\BKM@HookNext{,#1}%
                    183 }
   \BKM@setupnext
\BKM@HookNextClear
                    184 \def\BKM@HookNextClear{%
                    185 \global\let\BKM@HookNext\ltx@empty
                    186 }
    \BKM@HookNext
                    187 \BKM@HookNextClear
                    188 \DeclareBoolOption{draft}
                    189 \DeclareComplementaryOption{final}{draft}
```

```
\BKM@DisableOptions
                      190 \def\BKM@DisableOptions{%
                            \DisableKeyvalOption[action=warning,package=bookmark]%
                      192
                                {BKM}{draft}%
                      193
                            \DisableKeyvalOption[action=warning,package=bookmark]%
                      194
                                {BKM}{final}%
                      195 }
                      196 \DeclareBoolOption[\ifHy@bookmarksopen true\else false\fi]{open}
     \bookmark@open
                      197 \def\bookmark@open{%
                      198
                           \ifBKM@open\ltx@one\else\ltx@zero\fi
                      199 }
                      200 \DeclareStringOption[\maxdimen] {openlevel}
     \BKM@openlevel
                      201 \edef\BKM@openlevel{\number\@bookmarksopenlevel}
                      202 %\DeclareStringOption[\c@tocdepth] {depth}
                      203 \ltx@IfUndefined{Hy@bookmarksdepth}{%
                           \def\BKM@depth{\c@tocdepth}%
                      205 }{%
                      206
                            \let\BKM@depth\Hy@bookmarksdepth
                      207 }
                      208 \define@key{BKM}{depth}[]{%
                            \edef\BKM@param{#1}%
                            \ifx\BKM@param\@empty
                      210
                      211
                              \def\BKM@depth{\c@tocdepth}%
                      212
                            \else
                      213
                              \ltx@IfUndefined{toclevel@\BKM@param}{%
                      214
                                \@onelevel@sanitize\BKM@param
                      215
                                \edef\BKM@temp{\expandafter\@car\BKM@param\@nil}%
                                \ifcase 0\expandafter\ifx\BKM@temp-1\fi
                                        \expandafter\ifnum\expandafter'\BKM@temp>47 %
                      217
                      218
                                           \expandafter\ifnum\expandafter'\BKM@temp<58 %
                                             1%
                      219
                                           \fi
                      220
                                        \fi
                      221
                      222
                                        \relax
                                  \PackageWarning{bookmark}{%
                      223
                      224
                                    Unknown document division name (\BKM@param)\MessageBreak
                      225
                                    for option 'depth'%
                                  }%
                      226
                      227
                                \else
                                  \BKM@SetDepthOrLevel\BKM@depth\BKM@param
                      228
                      229
                                \fi
                              }{%
                      230
                      231
                                \BKM@SetDepthOrLevel\BKM@depth{%
                      232
                                  \csname toclevel@\BKM@param\endcsname
                                }%
                      233
                              }%
                      234
                      235
                            \fi
                      236 }
```

\bookmark@depth

237 \def\bookmark@depth{\BKM@depth}

```
\BKM@SetDepthOrLevel
```

```
238 \def\BKM@SetDepthOrLevel#1#2{%
                         239
                               \begingroup
                         240
                                 \setbox\z@=\hbox{%
                         241
                                   \count@=#2\relax
                         242
                                   \expandafter
                                 }%
                         243
                               \expandafter\endgroup
                         244
                         245
                               \expandafter\def\expandafter#1\expandafter{\the\count@}%
                         246 }
                         247 \DeclareStringOption[\BKM@currentlevel]{level}[\BKM@currentlevel]
                         248 \define@key{BKM}{level}{%
                               \edef\BKM@param{#1}%
                               \ifx\BKM@param\BKM@MacroCurrentLevel
                                 \let\BKM@level\BKM@param
                         251
                         252
                               \else
                         253
                                 \ltx@IfUndefined{toclevel@\BKM@param}{%
                                   \@onelevel@sanitize\BKM@param
                         254
                         255
                                   \edef\BKM@temp{\expandafter\@car\BKM@param\@nil}%
                         256
                                   \ifcase 0\expandafter\ifx\BKM@temp-1\fi
                                           \expandafter\ifnum\expandafter'\BKM@temp>47 %
                         257
                                              \expandafter\ifnum\expandafter'\BKM@temp<58 %
                         258
                         259
                                                1%
                                             \fi
                         260
                                           \fi
                         261
                                           \relax
                         262
                         263
                                     \PackageWarning{bookmark}{%
                                       Unknown document division name (\BKM@param)\MessageBreak
                         265
                                       for option 'level'%
                         266
                                     }%
                         267
                                   \else
                                     \BKM@SetDepthOrLevel\BKM@level\BKM@param
                         268
                         269
                                   \fi
                         270
                                 }{%
                                   \BKM@SetDepthOrLevel\BKM@level{%
                         271
                         272
                                     \csname toclevel@\BKM@param\endcsname
                         273
                                   }%
                                 }%
                         274
                               \fi
                         275
                         276 }
\BKM@MacroCurrentLevel
                         277 \def\BKM@MacroCurrentLevel{\BKM@currentlevel}
                         278 \DeclareBoolOption{keeplevel}
                         279 \DeclareBoolOption{startatroot}
 \BKM@startatrootfalse
                         280 \def\BKM@startatrootfalse{%
                              \global\let\ifBKM@startatroot\iffalse
                         282 }
  \BKM@startatroottrue
                         283 \def\BKM@startatroottrue{%
                         284
                               \global\let\ifBKM@startatroot\iftrue
                         285 }
```

```
286 \ensuremath{\mbox{\sc MM}} {\rm frellevel} \ensuremath{\mbox{\sc M}}
                                    \BKM@CalcExpr\BKM@level{#1}+\BKM@currentlevel
                              288 }
           \bookmark@level
                              289 \def\bookmark@level{\BKM@level}
         \BKM@currentlevel
                              290 \def\BKM@currentlevel{0}
                             Make bookmark's option numbered an alias for hyperref's bookmarksnumbered.
                              291 \DeclareBoolOption[%
                              292 \ifHy@bookmarksnumbered true\else false\fi
                              293 ] {numbered}
                              294 \g@addto@macro\BKM@numberedtrue{%
                                   \let\ifHy@bookmarksnumbered\iftrue
                              297 \g@addto@macro\BKM@numberedfalse{%
                                    \let\ifHy@bookmarksnumbered\iffalse
                              298
                              299 }
                              300 \g@addto@macro\Hy@bookmarksnumberedtrue{\%
                                    \let\ifBKM@numbered\iftrue
                              303 \g@addto@macro\Hy@bookmarksnumberedfalse{%
                                    \let\ifBKM@numbered\iffalse
                              304
                              305 }
        \bookmark@numbered
                              306 \def\bookmark@numbered{%
                              307 \ifBKM@numbered\ltx@one\else\ltx@zero\fi
                              308 }
                             Redefinitions hyperref's options
  \BKM@PatchHyperrefOption
                              309 \def\BKM@PatchHyperrefOption#1{%
                                  \expandafter\BKM@@PatchHyperrefOption\csname KV@Hyp@#1\endcsname%
                              311 }
 \BKM@@PatchHyperrefOption
                              312 \def\BKM@@PatchHyperrefOption#1{%
                                    \expandafter\BKM@@@PatchHyperrefOption#1{##1}\BKM@nil#1%
                              314 }
\BKM@@@PatchHyperrefOption
                              315 \def\BKM@@PatchHyperrefOption#1\BKM@nil#2#3{%
                              316
                                   \def#2##1{%
                                      #1%
                              317
                                      \bookmarksetup{#3={##1}}%
                              318
                              319
                                   }%
                              320 }
                              321 \BKM@PatchHyperrefOption{bookmarksopen}{open}
                              322 \BKM@PatchHyperrefOption{bookmarksopenlevel}{openlevel}
                              323 \BKM@PatchHyperrefOption{bookmarksdepth}{depth}
```

```
Font style options. Caution: Package bitset is zero-based, the PDF specifica-
                  tions starts with one.
                  324 \bitsetReset{BKM@FontStyle}%
                  325 \ensuremath{\mbox{\sc MKM}}{\mbox{\sc italic}[true]} \ensuremath{\mbox{\sc w}}
                        \expandafter\ifx\csname if#1\endcsname\iftrue
                         \bitsetSet{BKM@FontStyle}{0}%
                  327
                  328
                       \else
                  329
                         \bitsetClear{BKM@FontStyle}{0}%
                  330
                       \fi
                  331 }%
                  332 \define@key{BKM}{bold}[true]{%}
                       \expandafter\ifx\csname if#1\endcsname\iftrue
                  333
                         \bitsetSet{BKM@FontStyle}{1}%
                         \bitsetClear{BKM@FontStyle}{1}%
                  337 \fi
                  338 }%
\bookmark@italic
                  339 \def\bookmark@italic{%
                  341 }
 \bookmark@bold
                  342 \def\bookmark@bold{%
                  343 \ifnum\bitsetGet{BKM@FontStyle}{1}=1 \ltx@one\else\ltx@zero\fi
                  344 }
\BKM@PrintStyle
                  345 \def\BKM@PrintStyle{%
                  346 \bitsetGetDec{BKM@FontStyle}%
                  347 }%
                  Options for color.
                  348 \define@key{BKM}{color}{%
                       \HyColor@BookmarkColor{#1}\BKM@color{bookmark}{color}%
                  350 }
     \BKM@color
                  351 \let\BKM@color\@empty
\bookmark@color
                  352 \def\bookmark@color{\BKM@color}
                  3.1.3 Action options
                  353 \def\BKM@temp#1{%
                       \DeclareStringOption{#1}%
                  354
                        \expandafter\edef\csname bookmark@#1\endcsname{%
                  355
                         \expandafter\noexpand\csname BKM@#1\endcsname
                  356
                  357
                       }%
                  358 }
 \bookmark@dest
                  359 \BKM@temp{dest}
```

```
\bookmark@named
                       360 \BKM@temp{named}
      \bookmark@uri
                       361 \BKM@temp{uri}
    \bookmark@gotor
                       362 \BKM@temp{gotor}
\bookmark@rawaction
                       363 \BKM@temp{rawaction}
                       364 \define@key{BKM}{page}{%
                            \def\BKM@page{#1}%
                            \ifx\BKM@page\@empty
                       366
                       367
                            \else
                              \edef\BKM@page{\number\BKM@page}%
                       368
                              \ifnum\BKM@page>\z@
                       369
                       370
                                 \PackageError{bookmark}{Page must be positive}\@ehc
                       371
                                 \def\BKM@page{1}%
                       372
                              \fi
                       373
                       374
                            \fi
                       375 }
          \BKM@page
                       376 \let\BKM@page\@empty
     \bookmark@page
                       377 \def\bookmark@page{\BKM@@page}
                       378 \ensuremath{\mbox{define@key{BKM}}{view}{\%}}
                       379
                            \BKM@CheckView{#1}%
                       380 }
          \BKM@view
                       381 \left( BKM@view@empty \right)
     \bookmark@view
                       382 \def\bookmark@view{\BKM@view}
      BKM@CheckView
                       383 \def\BKM@CheckView#1{%
                       384 \BKM@CheckViewType#1 \@nil
                       385 }
 \BKM@CheckViewType
                       386 \def\BKM@CheckViewType#1 #2\@nil{%
                            \def\BKM@type{#1}%
                            \@onelevel@sanitize\BKM@type
                       388
                            \BKM@TestViewType{Fit}{}%
                       389
                            \BKM@TestViewType{FitB}{}%
                       390
                            \BKM@TestViewType{FitH}{%
                       391
                              \BKM@CheckParam#2 \@nil{top}%
                       392
                       393
                            \BKM@TestViewType{FitBH}{%
                       394
                       395
                              \BKM@CheckParam#2 \@nil{top}%
```

```
396
                         \BKM@TestViewType{FitV}{%
                    397
                           \BKM@CheckParam#2 \@nil{bottom}%
                    398
                    399
                         \BKM@TestViewType{FitBV}{%
                    400
                           \BKM@CheckParam#2 \@nil{bottom}%
                    401
                    402
                         \BKM@TestViewType{FitR}{%
                    403
                           \BKM@CheckRect{#2}{ }%
                    404
                    405
                         \BKM@TestViewType{XYZ}{%
                    406
                           \BKM@CheckXYZ{#2}{ }%
                    407
                    408
                         }%
                    409
                         \@car{%
                           \PackageError{bookmark}{%
                    410
                             Unknown view type '\BKM@type',\MessageBreak
                    411
                             using 'FitH' instead%
                    412
                    413
                           }\@ehc
                           \def\BKM@view{FitH}%
                    414
                         }%
                    415
                         \@nil
                    416
                    417 }
\BKM@TestViewType
                    418 \def\BKM@TestViewType#1{%
                         \def\BKM@temp{#1}%
                    419
                         \@onelevel@sanitize\BKM@temp
                         \ifx\BKM@type\BKM@temp
                    421
                           \let\BKM@view\BKM@temp
                    422
                           \expandafter\@car
                    423
                         \else
                    424
                           \expandafter\@gobble
                    425
                    426
                         \fi
                    427 }
  BKM@CheckParam
                    428 \def\BKM@CheckParam#1 #2\@nil#3{%
                    429
                         \def\BKM@param{#1}%
                    430
                         \ifx\BKM@param\@empty
                    431
                           \PackageWarning{bookmark}{%
                    432
                             Missing parameter (#3) for '\BKM@type',\MessageBreak
                    433
                             using 0%
                           }%
                           \def\BKM@param{0}%
                    435
                         \else
                    436
                           \BKM@CalcParam
                    437
                    438
                         \edef\BKM@view\space\BKM@param}%
                    439
                    440 }
   BKM@CheckRect
                    441 \def\BKM@CheckRect#1#2{%
                    442 \BKM@@CheckRect#1#2#2#2\@nil
                    443 }
  \BKM@@CheckRect
                    444 \def\BKM@@CheckRect#1 #2 #3 #4 #5\@nil{%
                    445 \def\BKM@temp{0}%
```

```
446
                      \def\BKM@param{#1}%
                      \ifx\BKM@param\@empty
                 447
                 448
                        \def\BKM@param{0}%
                 449
                        \def\BKM@temp{1}%
                      \else
                 450
                 451
                        \BKM@CalcParam
                      \fi
                 452
                      \edef\BKM@view\space\BKM@param}%
                 453
                      \def\BKM@param{#2}%
                 454
                      \ifx\BKM@param\@empty
                 455
                        \def\BKM@param{0}%
                 456
                        \def\BKM@temp{1}%
                 457
                      \else
                 458
                 459
                        \BKM@CalcParam
                      \fi
                 460
                      \edef\BKM@view{\BKM@view\space\BKM@param}%
                 461
                 462
                      \def\BKM@param{#3}%
                      \ifx\BKM@param\@empty
                 463
                        \def\BKM@param{0}%
                 464
                        \def\BKM@temp{1}%
                 465
                      \else
                 466
                        \BKM@CalcParam
                 467
                      \fi
                 468
                      \edef\BKM@view{\BKM@view\space\BKM@param}%
                 469
                      \def\BKM@param{#4}%
                 470
                      \ifx\BKM@param\@empty
                 471
                 472
                        \def\BKM@param{0}%
                        \def\BKM@temp{1}%
                 473
                 474
                      \else
                        \BKM@CalcParam
                 475
                 476
                      \edef\BKM@view\space\BKM@param}%
                 477
                 478
                      \ifnum\BKM@temp>\z@
                        \PackageWarning{bookmark}{Missing parameters for '\BKM@type'}%
                 479
                 480
                      \fi
                 481 }
 \BKM@CheckXYZ
                 \BKM@@CheckXYZ#1#2#2\@nil
                 484 }
\BKM@@CheckXYZ
                 485 \def\BKM@@CheckXYZ#1 #2 #3 #4\@nil{%
                      \def\BKM@param{#1}%
                 486
                      \let\BKM@temp\BKM@param
                 487
                 488
                      \@onelevel@sanitize\BKM@temp
                      \ifx\BKM@param\@empty
                 489
                        \let\BKM@param\BKM@null
                 490
                      \else
                 491
                        \ifx\BKM@temp\BKM@null
                 492
                        \else
                 493
                 494
                          \BKM@CalcParam
                 495
                        \fi
                 496
                      \fi
                      \edef\BKM@view\space\BKM@param}%
                 497
                      \def\BKM@param{#2}%
                 498
                      \let\BKM@temp\BKM@param
                 499
```

```
500
                       \@onelevel@sanitize\BKM@temp
                       \ifx\BKM@param\@empty
                 501
                 502
                         \let\BKM@param\BKM@null
                 503
                       \else
                 504
                         \ifx\BKM@temp\BKM@null
                 505
                         \else
                           \BKM@CalcParam
                 506
                         \fi
                 507
                       \fi
                 508
                       \edef\BKM@view{\BKM@view\space\BKM@param}%
                 509
                       \def\BKM@param{#3}%
                 510
                       \ifx\BKM@param\@empty
                 511
                 512
                         \let\BKM@param\BKM@null
                 513
                       \edef\BKM@view{\BKM@view\space\BKM@param}%
                 514
                 515 }
      \BKM@null
                 516 \def\BKM@null{null}
                 517 \@onelevel@sanitize\BKM@null
\BKM@CalcParam
                 518 \def\BKM@CalcParam{%
                 519
                      \begingroup
                 520
                       \let\calc\@firstofone
                       \expandafter\BKM00CalcParam\BKM0param\0empty\0empty\0nil
                 521
                 522 }
\BKM@@CalcParam
                 523 \def\BKM@@CalcParam#1#2#3\@nil{%
                 524
                       \ifx\calc#1%
                         \@ifundefined{calc@assign@dimen}{%
                 525
                           \@ifundefined{dimexpr}{%
                 526
                             \ensuremath{\dimen0}{\#2}\%
                 527
                 528
                 529
                             \setlength{\dimen@}{\dimexpr#2\relax}%
                           }%
                 530
                 531
                         }{%
                           \ensuremath{\dimen0}{\#2}\%
                 532
                         }%
                 533
                         \dimen@.99626\dimen@
                 534
                         \edef\BKM@param{\strip@pt\dimen@}%
                 535
                         \expandafter\endgroup
                 536
                         \expandafter\def\expandafter\BKM@param\expandafter{\BKM@param}%
                 537
                       \else
                 538
                 539
                         \endgroup
                       \fi
                 540
                 541 }
                 3.1.4 Option atend
                 542 \DeclareBoolOption{atend}
                 543 \verb|\g@addto@macro\BKM@DisableOptions{%}|
                       544
                 545
                           {BKM}{atend}%
                 546 }
```

```
3.1.5 Option style
\bookmarkdefinestyle
                       547 \newcommand*{\bookmarkdefinestyle}[2]{%
                       548
                            \@ifundefined{BKM@style@#1}{%
                       549
                            }{%
                       550
                              \PackageInfo{bookmark}{Redefining style '#1'}%
                       551
                            552
                       553 }
                       554 \define@key{BKM}{style}{%
                           \BKM@StyleCall{#1}%
                       555
                       556 }
                       557 \neq 557 \end{pmatrix}
      \BKM@StyleCall
                       558 \def\BKM@StyleCall#1{%
                            \@ifundefined{BKM@style@#1}{%
                              \PackageWarning{bookmark}{%
                       560
                       561
                                Ignoring unknown style '#1'%
                       562
                              }%
                           }{%
                       563
                      Check style stack.
                       564
                              \BKM@oktrue
                              \edef\BKM@StyleCurrent{#1}%
                       565
                              \@onelevel@sanitize\BKM@StyleCurrent
                       566
                              \let\BKM@StyleEntry\BKM@StyleEntryCheck
                              \BKM@StyleStack
                       568
                              \ifBKM@ok
                       569
                                \expandafter\@firstofone
                       570
                              \else
                       571
                                \PackageError{bookmark}{%
                       572
                                  Ignoring recursive call of style '\BKM@StyleCurrent'%
                       573
                                }\@ehc
                       575
                                \expandafter\@gobble
                              \fi
                       576
                              {%
                       577
                      Push current style on stack.
                                \let\BKM@StyleEntry\relax
                       578
                                \edef\BKM@StyleStack{%
                       579
                                  \BKM@StyleEntry{\BKM@StyleCurrent}%
                       580
                       581
                                  \BKM@StyleStack
                       582
                                }%
                      Call style.
                                \expandafter\expandafter\bookmarksetup
                       584
                                \expandafter\expandafter\expandafter{%
                                  \csname BKM@style@\BKM@StyleCurrent\endcsname
                       585
                                }%
                       586
```

Pop current style from stack.

}%

}%

587

588 589

590 }

\BKM@StyleStackPop

```
\BKM@StyleStackPop
                       591 \def\BKM@StyleStackPop{%
                            \let\BKM@StyleEntry\relax
                            \edef\BKM@StyleStack{%
                       594
                              \expandafter\@gobbletwo\BKM@StyleStack
                       595
                            }%
                       596 }
\BKM@StyleEntryCheck
                       597 \ensuremath{\mbox{\mbox{M@StyleEntryCheck#1}}\xspace}\xspace
                            \def\BKM@temp{#1}%
                            \ifx\BKM@temp\BKM@StyleCurrent
                              \BKM@okfalse
                       600
                       601
                            \fi
                       602 }
     \BKM@StyleStack
                       603 \def\BKM@StyleStack{}
                             Options for source file location
                       604 \DeclareStringOption{srcline}
                       605 \DeclareStringOption{srcfile}
                      3.1.7 Hook support
           \BKM@hook
                       606 \def\BKM@hook{}
                       607 \define@key{BKM}{addtohook}{%}
                       608
                            \ltx@LocalAppendToMacro\BKM@hook{#1}%
                       609 }
         bookmarkget
                       610 \newcommand*{\bookmarkget}[1]{%
                            \romannumeral0%
                            \ltx@ifundefined{bookmark@#1}{%
                       612
                       613
                              \ltx@space
                            }{%
                       614
                              \expandafter\expandafter\ltx@space
                       615
                              \csname bookmark@#1\endcsname
                       616
                       617
                            }%
                       618 }
                             Driver setup and loading
                      Driver detection.
\BKM@DefineDriverKey
                       619 \def\BKM@DefineDriverKey#1{%
                            620
                              \def\BKM@driver{#1}%
                       621
                       622
                             \g@addto@macro\BKM@DisableOptions{%
                       623
                              \DisableKeyvalOption[action=warning,package=bookmark]%
                       624
                       625
                                   {BKM}{#1}%
                       626
                            }%
```

627 }

```
628 \BKM@DefineDriverKey{pdftex}
                         629 \BKM@DefineDriverKey{dvips}
                         630 \BKM@DefineDriverKey{dvipsone}
                         631 \BKM@DefineDriverKey{textures}
                         632 \BKM@DefineDriverKey{dvipdfm}
                         633 \BKM@DefineDriverKey{dvipdfmx}
                         634 \BKM@DefineDriverKey{xetex}
                         635 \BKM@DefineDriverKey{vtex}
                         636 \define@key{BKM}{dvipdfmx-outline-open}[true]{%
                               \expandafter\ifx\csname if#1\expandafter\endcsname
                         637
                                               \csname iftrue\endcsname
                         638
                                 \chardef\SpecialDvipdfmxOutlineOpen\@ne
                         639
                         640
                               \else
                         641
                                 \chardef\SpecialDvipdfmxOutlineOpen\z@
                               \fi
                         642
                         643 }
                         644 \g@addto@macro\BKM@DisableOptions{%}  
                               \DisableKeyvalOption{BKM}{dvipdfmx-outline-open}%
                         646 }
      \bookmark@driver
                         647 \def\bookmark@driver{\BKM@driver}
                         648 \InputIfFileExists{bookmark.cfg}{}{}
\BookmarkDriverDefault
                         649 \providecommand*{\BookmarkDriverDefault}{dvips}
           \BKM@driver
                        LuaTeX and pdfTeX share driver.
                         650 \ifpdf
                               \def\BKM@driver{pdftex}%
                         651
                               \ifx\pdfoutline\@undefined
                         652
                         653
                                 \ifx\pdfextension\@undefined\else
                         654
                                   \protected\def\pdfoutline{\pdfextension outline }
                         655
                                 \fi
                         656
                              \fi
                         657 \else
                         658
                              \ifxetex
                                \def\BKM@driver{dvipdfm}%
                         659
                         661
                                 \ifvtex
                         662
                                   \def\BKM@driver{vtex}%
                         663
                                   \edef\BKM@driver{\BookmarkDriverDefault}%
                         664
                                 \fi
                         665
                              \fi
                         666
                         667 \fi
                        Process options.
                         668 \ProcessKeyvalOptions*
                         669 \BKM@DisableOptions
                         Option draft
                         670 \ifBKM@draft
                              \PackageWarningNoLine{bookmark}{Draft mode on}%
                              \let\bookmarksetup\ltx@gobble
                              \let\BookmarkAtEnd\ltx@gobble
```

```
674
     \let\bookmarkdefinestyle\ltx@gobbletwo
     \let\bookmarkget\ltx@gobble
675
676
     \let\pdfbookmark\ltx@undefined
     \newcommand*{\pdfbookmark}[3][]{}%
     \let\currentpdfbookmark\ltx@gobbletwo
     \let\subpdfbookmark\ltx@gobbletwo
679
     \let\belowpdfbookmark\ltx@gobbletwo
680
     \newcommand*{\bookmark}[2][]{}%
681
     \renewcommand*{\Hy@writebookmark}[5]{}%
682
     \let\ReadBookmarks\relax
683
     \let\BKM@DefGotoNameAction\ltx@gobbletwo % package 'hypdestopt'
685
     \expandafter\endinput
686 \fi
```

Driver validation and loading.

```
687 \newif\ifBKM@DvipdfmxOutlineOpen
688 \ltx@IfUndefined{SpecialDvipdfmxOutlineOpen}{%
689
     \ifxetex
       \ifdim\number\XeTeXversion\XeTeXrevision in<0.9995in %
690
691
         \chardef\SpecialDvipdfmxOutlineOpen\ltx@one
692
         \BKM@DvipdfmxOutlineOpentrue
693
       \fi
694
     \fi
695
696 }{%
697
     \ifnum\SpecialDvipdfmxOutlineOpen>\z@
698
       \BKM@DvipdfmxOutlineOpentrue
699
     \fi
700 }
701 \def\BKM@temp{dvipdfmx}%
702 \ifx\BKM@temp\BKM@driver
     \def\BKM@driver{dvipdfm}%
704\fi
705 \def\BKM@temp{pdftex}%
706 \ifpdf
     \ifx\BKM@temp\BKM@driver
707
708
     \else
       \PackageWarningNoLine{bookmark}{%
709
         Wrong driver '\BKM@driver', using 'pdftex' instead%
710
711
712
       \let\BKM@driver\BKM@temp
713
     \fi
714 \else
     \ifx\BKM@temp\BKM@driver
715
716
       \PackageError{bookmark}{%
         Wrong driver, pdfTeX is not running in PDF mode.\MessageBreak
717
         Package loading is aborted%
718
719
       \expandafter\expandafter\expandafter\endinput
720
721
     \def\BKM@temp{dvipdfm}%
722
723
     \ifxetex
       \ifx\BKM@temp\BKM@driver
724
725
726
         \PackageWarningNoLine{bookmark}{%
727
           Wrong driver '\BKM@driver',\MessageBreak
           using 'dvipdfm' for XeTeX instead%
728
```

```
729
                                 \let\BKM@driver\BKM@temp
                       730
                       731
                              \fi
                       732
                             \else
                              \def\BKM@temp{vtex}%
                       733
                              \ifvtex
                       734
                                 \ifx\BKM@temp\BKM@driver
                       735
                                 \else
                       736
                                   \PackageWarningNoLine{bookmark}{%
                       737
                                     Wrong driver '\BKM@driver',\MessageBreak
                       738
                                     using 'vtex' for VTeX instead%
                       739
                       740
                       741
                                   \let\BKM@driver\BKM@temp
                                 \fi
                       742
                               \else
                       743
                       744
                                 \ifx\BKM@temp\BKM@driver
                       745
                                   \PackageError{bookmark}{%
                                     Wrong driver, VTeX is not running in PDF mode.\MessageBreak
                       746
                       747
                                     Package loading is aborted%
                       748
                                   \expandafter\expandafter\expandafter\endinput
                       749
                                 \fi
                       750
                              \fi
                       751
                       752
                            \fi
                       753 \fi
                       754 \InputIfFileExists{bkm-\BKM@driver.def}{}{%
                       755
                            \PackageError{bookmark}{%
                              Unsupported driver '\BKM@driver'.\MessageBreak
                       756
                       757
                              Package loading is aborted%
                       758
                            \ \ensuremath{\mbox{Qehc}}
                       759
                             \endinput
                       760 }
                      3.1.9
                              Compatibility for hyperref
       \pdfbookmark
                       761 \let\pdfbookmark\ltx@undefined
                       762 \newcommand*{\pdfbookmark}[3][0]{%
                            \bookmark[level=#1,dest={#3.#1}]{#2}%
                            \hyper@anchorstart{#3.#1}\hyper@anchorend
                       764
                       765 }
\currentpdfbookmark
                       766 \def\currentpdfbookmark{%
                       767
                            \pdfbookmark[\BKM@currentlevel]%
                       768 }
    \subpdfbookmark
                       769 \def\subpdfbookmark{%
                            \BKM@CalcExpr\BKM@CalcResult\BKM@currentlevel+1%
                             \verb|\expandafter| pdfbookmark| expandafter[\BKM@CalcResult]| % \\
                       771
                       772 }
  \belowpdfbookmark
                       773 \def\belowpdfbookmark#1#2{%
                       774
                            \xdef\BKM@gtemp{\number\BKM@currentlevel}%
                            \verb|\subpdfbookmark{#1}{#2}||
                       775
                            \global\let\BKM@currentlevel\BKM@gtemp
```

```
777 }
```

Section number, text, label, level, file

```
\Hy@writebookmark
```

```
778 \def\Hy@writebookmark#1#2#3#4#5{%
779
     \ifnum#4>\BKM@depth\relax
780
     \else
781
       \def\BKM@type{#5}%
782
       \ifx\BKM@type\Hy@bookmarkstype
783
         \begingroup
784
           \ifBKM@numbered
785
             \let\numberline\Hy@numberline
             \let\booknumberline\Hy@numberline
786
             \let\partnumberline\Hy@numberline
787
             \let\chapternumberline\Hy@numberline
788
           \else
789
             \let\numberline\@gobble
790
791
             \let\booknumberline\@gobble
792
             \let\partnumberline\@gobble
793
             \let\chapternumberline\@gobble
794
795
           \bookmark[level=#4,dest={#3}]{#2}%
796
         \endgroup
797
       \fi
     \fi
798
799 }
```

\ReadBookmarks

```
800 \let\ReadBookmarks\relax
```

801 (/package)

814

815

816

Driver for dvipdfm 3.2

```
802 (*dvipdfm)
             803 \NeedsTeXFormat{LaTeX2e}
             804 \ProvidesFile{bkm-dvipdfm.def}%
                  [2019/12/03 v1.28 bookmark driver for dvipdfm (HO)]%
  \BKM@id
             806 \newcount\BKM@id
             807 \BKM@id=\z@
   \BKM@O
             808 \ensuremath{\texttt{NM@0}}{000}
\ifBKM@sw
             809 \mbox{ \newif\ifBKM@sw}
\bookmark
             810 \newcommand*{\bookmark}[2][]{%
                  \if@filesw
                     \begingroup
             812
             813
                       \def\bookmark@text{#2}%
```

\edef\BKM@prev{\the\BKM@id}%

\global\advance\BKM@id\@ne

\BKM@setup{#1}%

```
817
         \BKM@swtrue
         \@whilesw\ifBKM@sw\fi{%
818
819
            \def\BKM@abslevel{1}%
820
            \ifnum\ifBKM@startatroot\z@\else\BKM@prev\fi=\z@
              \BKM@startatrootfalse
              \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
822
                O{\BKM@level}\BKM@abslevel
823
             }%
824
              \BKM@swfalse
825
826
            \else
              \expandafter\expandafter\BKM@getx
827
                  \csname BKM@\BKM@prev\endcsname
828
              \ifnum\BKM@level>\BKM@x@level\relax
829
                \BKM@CalcExpr\BKM@abslevel\BKM@x@abslevel+1%
830
                \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
831
832
                  {\BKM@prev}{\BKM@level}\BKM@abslevel
                }%
833
                \BKM@swfalse
834
              \else
835
                \let\BKM@prev\BKM@x@parent
836
              \fi
837
           \fi
838
         }%
839
         \csname HyPsd@XeTeXBigCharstrue\endcsname
840
         \pdfstringdef\BKM@title{\bookmark@text}%
841
842
         \edef\BKM@FLAGS{\BKM@PrintStyle}%
843
         \let\BKM@action\@empty
         \ifx\BKM@gotor\@empty
844
845
           \ifx\BKM@dest\@empty
846
              \ifx\BKM@named\@empty
                \ifx\BKM@rawaction\@empty
                  \ifx\BKM@uri\@empty
848
                    \ifx\BKM@page\@empty
849
                      \PackageError{bookmark}{Missing action}\@ehc
850
                      \edef\BKM@action{/Dest[@page1/Fit]}%
851
                    \else
852
                      \ifx\BKM@view\@empty
853
                        \def\BKM@view{Fit}%
854
855
856
                      \edef\BKM@action{/Dest[@page\BKM@page/\BKM@view]}%
                    \fi
857
                  \else
858
                    \BKM@EscapeString\BKM@uri
859
                    \edef\BKM@action{%
860
                      /A<<%
861
                        /S/URI%
862
                        /URI(\BKM@uri)%
863
                      >>%
864
                    }%
865
                  \fi
866
867
868
                  \edef\BKM@action{/A<<\BKM@rawaction>>}%
869
                \fi
870
              \else
                \BKM@EscapeName\BKM@named
871
872
                \edef\BKM@action{%
873
                  /A <</S/Named/N/\BKM@named>>%
                }%
```

```
\fi
875
            \else
876
              \BKM@EscapeString\BKM@dest
877
              \edef\BKM@action{%
878
                /A<<%
                  /S/GoTo%
880
                  /D(\BKM@dest)%
881
                >>%
882
             }%
883
            \fi
884
885
         \else
            \ifx\BKM@dest\@empty
886
887
              \ifx\BKM@page\@empty
                888
              \else
889
890
                \BKM@CalcExpr\BKM@page\BKM@page-1%
              \fi
891
892
              \ifx\BKM@view\@empty
                \def\BKM@view{Fit}%
893
              \fi
894
              \edef\BKM@action{/D[\BKM@page/\BKM@view]}%
895
            \else
896
              \BKM@EscapeString\BKM@dest
897
898
              \edef\BKM@action{/D(\BKM@dest)}%
899
900
            \BKM@EscapeString\BKM@gotor
            \edef\BKM@action{%
901
              /A<<%
902
                /S/GoToR%
903
                /F(\BKM@gotor)%
904
905
                \BKM@action
906
             >>%
           }%
907
         \fi
908
         \verb|\special{pdf:}|
909
            out \ifBKM@DvipdfmxOutlineOpen
910
911
912
                  \ifBKM@open
913
                    \ifnum\BKM@level<%
                         \expandafter\ltx@firstofone\expandafter
914
                        {\number\BKM@openlevel} %
915
916
                    \else
                      -%
917
                    \fi
918
                  \else
919
                    -%
920
                  \fi
921
                  ] %
922
                \fi
923
                \BKM@abslevel
924
925
            <<%
926
              /Title(\BKM@title)%
927
              \ifx\BKM@color\@empty
928
              \else
                /C[\BKM@color]%
929
930
931
              \ifnum\BKM@FLAGS>\z@
932
                /F \BKM@FLAGS
```

```
933
                                                                                     \fi
                                                                                     \BKM@action
                                        934
                                        935
                                                                             >>%
                                                                       }%
                                        936
                                        937
                                                                \endgroup
                                        938
                                                         \fi
                                        939 }
\BKM@getx
                                        940 \def\BKM@getx#1#2#3{%
                                                         \def\BKM@x@parent{#1}%
                                                         \def\BKM@x@level{#2}%
                                                         \def\BKM@x@abslevel{#3}%
                                        943
                                        944 }
                                        945 \langle /dvipdfm \rangle
                                     3.3
                                                           Driver for VT<sub>F</sub>X
                                        946 \langle *vtex \rangle
                                        947 \NeedsTeXFormat\{LaTeX2e\}
                                        948 \ProvidesFile{bkm-vtex.def}%
                                        949 [2019/12/03 v1.28 bookmark driver for VTeX (HO)]%
                                        950 \setminus ifvtexpdf
                                        951 \ensuremath{\setminus} else
                                                         \PackageWarningNoLine{bookmark}{%
                                                                The VTeX driver only supports PDF mode%
                                        953
                                        954
                                                     }%
                                        955 \fi
      \BKM@id
                                        956 \newcount\BKM@id
                                        957 \BKM@id=\z@
          \BKM@O
                                        958 \ensuremath{ \mbox{\tt 00}} \ensuremath{ \mbox{\tt gs}} \ensuremath{ \mbox{\tt 958}} \ensuremath{ \mbox{\tt 00}} \ensuremath{ \mbox{\tt endef} \mbox{\tt BKM@O}} \ensuremath{ \mbox{\tt 600}} \ensuremath{ \mbox{\tt 800}} \ensuremath{ \mbox{\tt endef} \mbox{\tt 800}} \ensuremath{ \mbox{\tt endef} \mbox{\tt 800}} \ensuremath{ \mbox{\tt endef} \mbox{\tt endef} \mbox{\tt endef} \ensuremath{ \mbox{\tt endef} \mbox{\tt endef} \mbox{\tt endef}} \ensuremath{ \mbox{\tt endef}} \en
\ifBKM@sw
                                        959 \newif\ifBKM@sw
\bookmark
                                        960 \newcommand*{\bookmark}[2][]{%
                                                        \if@filesw
                                        961
                                        962
                                                                \begingroup
                                                                       \def\bookmark@text{#2}%
                                        963
                                        964
                                                                       \BKM@setup{#1}%
                                                                       \edef\BKM@prev{\the\BKM@id}%
                                                                       \global\advance\BKM@id\@ne
                                        966
                                                                       \BKM@swtrue
                                        967
                                                                       \@whilesw\ifBKM@sw\fi{%
                                        968
                                                                              \verb|\finum| if BKM@startatroot| z@\else| BKM@prev| fi=\z@
                                        969
                                        970
                                                                                     \BKM@startatrootfalse
                                        971
                                                                                     \def\BKM@parent{0}%
                                        972
                                                                                     \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
                                                                                           O{\BKM@level}%
                                        973
                                                                                    }%
                                        974
                                                                                     \BKM@swfalse
                                        975
                                                                              \else
                                        976
```

```
977
               \expandafter\expandafter\expandafter\BKM@getx
                   \csname BKM@\BKM@prev\endcsname
978
               \ifnum\BKM@level>\BKM@x@level\relax
979
980
                 \let\BKM@parent\BKM@prev
                 \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
981
                   {\BKM@prev}{\BKM@level}%
982
                 }%
983
                 \BKM@swfalse
984
               \else
985
                 \let\BKM@prev\BKM@x@parent
986
               \fi
987
            \fi
988
          }%
989
990
          \pdfstringdef\BKM@title{\bookmark@text}%
          \BKM@vtex@title
991
992
          \edef\BKM@FLAGS{\BKM@PrintStyle}%
993
          \let\BKM@action\@empty
994
          \ifx\BKM@gotor\@empty
            \ifx\BKM@dest\@empty
995
               \ifx\BKM@named\@empty
996
                 \ifx\BKM@rawaction\@empty
997
                   \ifx\BKM@uri\@empty
998
                     \ifx\BKM@page\@empty
999
1000
                       \PackageError{bookmark}{Missing action}\@ehc
                        \def\BKM@action{!1}%
1001
1002
                     \else
1003
                        \edef\BKM@action{!\BKM@page}%
                     \fi
1004
1005
                   \else
                     \BKM@EscapeString\BKM@uri
1006
1007
                     \edef\BKM@action{%
                       <u=%
1008
                          /S/URI%
1009
                          /URI(\BKM@uri)%
1010
                       >%
1011
                     }%
1012
1013
                   \fi
                 \else
1014
1015
                   \edef\BKM@action{<u=\BKM@rawaction>}%
                 \fi
1016
               \else
1017
                 \BKM@EscapeName\BKM@named
1018
                 \edef\BKM@action{%
1019
                   <u=%
1020
                     /S/Named%
1021
                     /N/\BKM@named
1022
                   >%
1023
                 }%
1024
               \fi
1025
            \else
1026
               \BKM@EscapeString\BKM@dest
1027
1028
               \edef\BKM@action{\BKM@dest}%
1029
            \fi
1030
          \else
            \ifx\BKM@dest\@empty
1031
               \ifx\BKM@page\@empty
1032
1033
                 \def\BKM@page{1}%
1034
               \fi
```

```
1035
                            \ifx\BKM@view\@empty
                              \def\BKM@view{Fit}%
             1036
             1037
                            \fi
                            \edef\BKM@action{/D[\BKM@page/\BKM@view]}%
             1038
             1039
                          \else
                            \BKM@EscapeString\BKM@dest
             1040
                            \edef\BKM@action{/D(\BKM@dest)}%
             1041
                          \fi
             1042
                          \BKM@EscapeString\BKM@gotor
             1043
                          \edef\BKM@action{%
             1044
                            <u=%
             1045
                              /S/GoToR%
             1046
             1047
                              /F(\BKM@gotor)%
                              \verb|\BKM@action||
             1048
                            >>%
             1049
                         }%
             1050
                        \fi
             1051
             1052
                       \ifx\BKM@color\@empty
                          \let\BKM@RGBcolor\@empty
             1053
                       \else
             1054
                          \expandafter\BKM@toRGB\BKM@color\@nil
             1055
                       \fi
             1056
                       \special{%
             1057
                          !outline \BKM@action;%
             1058
                         p=\BKM@parent,%
             1059
             1060
                          i=\number\BKM@id,%
                          s=%
             1061
                            \ifBKM@open
             1062
                              \ifnum\BKM@level<\BKM@openlevel
             1063
             1064
                                ٥%
             1065
                              \else
                                c%
             1066
                              \fi
             1067
                            \else
             1068
                              c%
             1069
                            fi,%
             1070
             1071
                          \ifx\BKM@RGBcolor\@empty
             1072
                          \else
             1073
                            c=\BKM@RGBcolor,%
             1074
                          \fi
                          \ifnum\BKM@FLAGS>\z@
             1075
                            f=\BKM@FLAGS,%
             1076
                          \fi
             1077
                          t=\BKM@title
             1078
             1079
             1080
                     \endgroup
             1081
                   \fi
             1082 }
 \BKM@getx
             1083 \def\BKM@getx#1#2{%
             1084
                   \def\BKM@x@parent{#1}%
             1085
                   \def\BKM@x@level{#2}%
             1086 }
\BKM@toRGB
             1087 \def\BKM@toRGB#1 #2 #3\@nil{%
             1088 \let\BKM@RGBcolor\@empty
```

```
1089
                            \BKM@toRGBComponent{#1}%
                            \BKM@toRGBComponent{#2}%
                     1090
                     1091
                            \BKM@toRGBComponent{#3}%
                     1092 }
\BKM@toRGBComponent
                     1093 \def\BKM@toRGBComponent#1{%
                     1094
                            \dimen@=#1pt\relax
                            \ifdim\dimen@>\z@
                     1095
                              \ifdim\dimen@<\p@
                     1096
                      1097
                                \dimen@=255\dimen@
                                \advance\dimen@ by 32768sp\relax
                      1098
                                \divide\dimen@ by 65536\relax
                      1099
                                \dimen@ii=\dimen@
                     1100
                                \divide\dimen@ii by 16\relax
                     1101
                                \edef\BKM@RGBcolor{%
                     1102
                                  \BKM@RGBcolor
                     1103
                                  \BKM@toHexDigit\dimen@ii
                     1104
                                }%
                     1105
                                \dimen@ii=16\dimen@ii
                     1106
                     1107
                                \advance\dimen@-\dimen@ii
                                \edef\BKM@RGBcolor{%
                     1108
                                  \BKM@RGBcolor
                     1109
                     1110
                                  \BKM@toHexDigit\dimen@
                                }%
                     1111
                     1112
                              \else
                                \edef\BKM@RGBcolor{\BKM@RGBcolor FF}%
                     1113
                     1114
                              \fi
                            \else
                     1115
                              \edef\BKM@RGBcolor{\BKM@RGBcolor00}%
                     1116
                     1117
                            \fi
                     1118 }
    \BKM@toHexDigit
                     1119 \def\BKM@toHexDigit#1{%
                           \ifcase\expandafter\@firstofone\expandafter{\number#1} %
                     1120
                     1121
                              0\or 1\or 2\or 3\or 4\or 5\or 6\or 7\or
                              8\or 9\or A\or B\or C\or D\or E\or F%
                     1122
                     1123
                           \fi
                     1124 }
                     1125 \begingroup
                     1126 \catcode'\|=0 %
                           \catcode'\\=12 %
                     1127
    \BKM@vtex@title
                     1128
                            |gdef|BKM@vtex@title{%
                              |@onelevel@sanitize|BKM@title
                     1129
                              |edef|BKM@title{|expandafter|BKM@vtex@leftparen|BKM@title\(|@nil}%
                     1130
                              |edef|BKM@title{|expandafter|BKM@vtex@rightparen|BKM@title\)|@nil}%
                     1131
                              |edef|BKM@title{|expandafter|BKM@vtex@zero|BKM@title\0|@nil}%
                     1132
                              |edef|BKM@title{|expandafter|BKM@vtex@one|BKM@title\1|@nil}%
                     1133
                     1134
                              |edef|BKM@title{|expandafter|BKM@vtex@two|BKM@title\2|@nil}%
                     1135
                              |edef|BKM@title{|expandafter|BKM@vtex@three|BKM@title\3|@nil}%
                     1136
\BKM@vtex@leftparen
                     1137
                            |gdef|BKM@vtex@leftparen#1\(#2|@nil{%
```

```
#1%
                        1138
                                |ifx||#2||%
                        1139
                                |else
                       1140
                                  (%
                        1141
                                  |ltx@ReturnAfterFi{%
                        1142
                        1143
                                     |BKM@vtex@leftparen#2|@nil
                        1144
                        1145
                                |fi
                              }%
                        1146
\BKM@vtex@rightparen
                              |gdef|BKM@vtex@rightparen#1\)#2|@nil{%
                        1147
                        1148
                                #1%
                        1149
                                |ifx||#2||%
                                lelse
                        1150
                        1151
                                  |ltx@ReturnAfterFi{%
                        1152
                                     |BKM@vtex@rightparen#2|@nil
                        1153
                                  }%
                        1154
                        1155
                                |fi
                        1156
                              }%
      \BKM@vtex@zero
                              |gdef|BKM@vtex@zero#1\0#2|@nil{%
                        1157
                                #1%
                        1158
                                |ifx||#2||%
                        1159
                        1160
                                |else
                        1161
                                   |noexpand|hv@pdf@char0%
                        1162
                                   |ltx@ReturnAfterFi{%
                                     |BKM@vtex@zero#2|@nil
                        1163
                        1164
                                  ጉ%
                                |fi
                        1165
                              }%
                        1166
       \BKM@vtex@one
                              |gdef|BKM@vtex@one#1\1#2|@nil{%
                        1167
                        1168
                                #1%
                                |ifx||#2||%
                        1169
                                |else
                       1170
                                   |noexpand|hv@pdf@char1%
                       1171
                                   |ltx@ReturnAfterFi{%
                       1172
                                     |BKM@vtex@one#2|@nil
                        1173
                                  }%
                        1174
                        1175
                                |fi
                        1176
                              }%
       \BKM@vtex@two
                              |gdef|BKM@vtex@two#1\2#2|@nil{%
                        1177
                                #1%
                        1178
                                |ifx||#2||%
                        1179
                        1180
                                |else
                                   |noexpand|hv@pdf@char2%
                        1181
                        1182
                                   |ltx@ReturnAfterFi{%
                                     |BKM@vtex@two#2|@nil
                        1183
                                  }%
                        1184
                        1185
                                |fi
                             }%
                        1186
```

```
\BKM@vtex@three
                        |gdef|BKM@vtex@three#1\3#2|@nil{%
                  1187
                  1188
                          #1%
                  1189
                          |ifx||#2||%
                  1190
                          |else
                             |noexpand|hv@pdf@char3%
                  1191
                            |ltx@ReturnAfterFi{%
                  1192
                               |BKM@vtex@three#2|@nil
                  1193
                  1194
                            }%
                          |fi
                  1195
                  1196
                        }%
                  1197 | endgroup
                  1198 (/vtex)
                  3.4
                        Driver for pdfT<sub>F</sub>X
                  1199 (*pdftex)
                  1200 \NeedsTeXFormat{LaTeX2e}
                  1201 \ProvidesFile{bkm-pdftex.def}%
                        [2019/12/03 v1.28 bookmark driver for pdfTeX (HO)]%
  \BKM@DO@entry
                  1203 \def\BKM@DO@entry#1#2{%
                  1204
                        \begingroup
                          \kvsetkeys{BKM@DO}{#1}%
                  1205
                          \def\BKM@DO@title{#2}%
                  1206
                          \ifx\BKM@DO@srcfile\@empty
                  1207
                  1208
                          \else
                            \BKM@UnescapeHex\BKM@DO@srcfile
                  1209
                  1210
                  1211
                          \BKM@UnescapeHex\BKM@DO@title
                  1212
                          \expandafter\expandafter\expandafter\BKM@getx
                              \csname BKM@\BKM@DO@id\endcsname\@empty\@empty
                  1213
                  1214
                          \let\BKM@attr\@empty
                  1215
                          \ifx\BKM@DO@flags\@empty
                  1216
                            \edef\BKM@attr{\BKM@attr/F \BKM@DO@flags}%
                  1217
                  1218
                  1219
                          \ifx\BKM@DO@color\@empty
                  1220
                          \else
                            \edef\BKM@attr{\BKM@attr/C[\BKM@DO@color]}%
                  1221
                  1222
                          \ifx\BKM@attr\@empty
                  1223
                  1224
                          \else
                  1225
                             \edef\BKM@attr{attr{\BKM@attr}}%
                  1226
                          \let\BKM@action\@empty
                  1227
                          \ifx\BKM@DO@gotor\@empty
                  1228
                  1229
                            \ifx\BKM@DO@dest\@empty
                              \ifx\BKM@DO@named\@empty
                  1230
                                 \ifx\BKM@DO@rawaction\@empty
                  1231
                                   \ifx\BKM@DO@uri\@empty
                  1232
                                     \ifx\BKM@DO@page\@empty
                  1233
                                       \PackageError{bookmark}{%
                  1234
                  1235
                                         Missing action\BKM@SourceLocation
                  1236
```

1237

\edef\BKM@action{goto page1{/Fit}}%

```
1238
                   \else
                     \ifx\BKM@DO@view\@empty
1239
1240
                        \def\BKM@DO@view{Fit}%
                     \fi
1241
1242
                     \edef\BKM@action{goto page\BKM@DO@page{/\BKM@DO@view}}%
                   \fi
1243
                 \else
1244
                   \BKM@UnescapeHex\BKM@DO@uri
1245
                   \BKM@EscapeString\BKM@DO@uri
1246
                   \edef\BKM@action{user{<</S/URI/URI(\BKM@DO@uri)>>}}%
1247
1248
                 \fi
               \else
1249
1250
                 \BKM@UnescapeHex\BKM@DO@rawaction
                 \edef\BKM@action{%
1251
                   user{%
1252
1253
                     <<%
1254
                       \BKM@DO@rawaction
                     >>%
1255
1256
                   }%
                 }%
1257
               \fi
1258
            \else
1259
               \BKM@EscapeName\BKM@DO@named
1260
1261
               \edef\BKM@action{%
                 user{<</S/Named/N/\BKM@DO@named>>}%
1262
1263
               }%
            \fi
1264
          \else
1265
1266
             \BKM@UnescapeHex\BKM@DO@dest
1267
             \BKM@DefGotoNameAction\BKM@action\BKM@DO@dest
1268
          \fi
        \else
1269
          \ifx\BKM@DO@dest\@empty
1270
            \ifx\BKM@DO@page\@empty
1271
               \def\BKM@DO@page{0}%
1272
            \else
1273
               \BKM@CalcExpr\BKM@DO@page\BKM@DO@page-1%
1274
            \fi
1275
1276
            \ifx\BKM@DO@view\@empty
               \def\BKM@DO@view{Fit}%
1277
            \fi
1278
            \edef\BKM@action{/D[\BKM@DO@page/\BKM@DO@view]}%
1279
1280
          \else
1281
            \BKM@UnescapeHex\BKM@DO@dest
             \BKM@EscapeString\BKM@DO@dest
1282
             \edef\BKM@action{/D(\BKM@DO@dest)}%
1283
          \fi
1284
          \BKM@UnescapeHex\BKM@DO@gotor
1285
          \BKM@EscapeString\BKM@DO@gotor
1286
          \edef\BKM@action{%
1287
            user{%
1288
1289
               <<%
1290
                 /S/GoToR%
1291
                 /F(\BKM@DO@gotor)%
                 \BKM@action
1292
              >>%
1293
1294
            }%
1295
          }%
```

```
1296
                                 \fi
                                 \pdfoutline\BKM@attr\BKM@action
                         1297
                         1298
                                              count\ifBKM@DO@open\else-\fi\BKM@x@childs
                         1299
                                              {\BKM@DO@title}%
                         1300
                               \endgroup
                         1301 }
\BKM@DefGotoNameAction
                         Macro \BKM@DefGotoNameAction is a hook for package hypdestopt.
                         1302 \def\BKM@DefGotoNameAction#1#2{%
                               \BKM@EscapeString\BKM@DO@dest
                         1304
                               \edef#1{goto name{#2}}%
                         1305 }
                         1306 (/pdftex)
                         1307 (*pdftex | pdfmark)
   \BKM@SourceLocation
                         1308 \def\BKM@SourceLocation{%
                         1309
                               \ifx\BKM@DO@srcfile\@empty
                                 \ifx\BKM@DO@srcline\@empty
                         1310
                                 \else
                         1311
                         1312
                                    \verb|.\MessageBreak|
                                   Source: line \BKM@DO@srcline
                         1313
                                 \fi
                         1314
                         1315
                               \else
                                 \ifx\BKM@DO@srcline\@empty
                         1316
                                    .\MessageBreak
                         1317
                                   Source: file '\BKM@DO@srcfile'%
                         1318
                         1319
                                 \else
                         1320
                                    .\MessageBreak
                                   Source: file '\BKM@DO@srcfile', line \BKM@DO@srcline
                         1321
                         1322
                               \fi
                         1323
                         1324 }
                         1325 (/pdftex | pdfmark)
                         3.5
                                Drivers with pdfmark specials
                         3.5.1 Driver dvips
                         1326 (*dvips)
                         1327 \NeedsTeXFormat{LaTeX2e}
                         1328 \ProvidesFile{bkm-dvips.def}%
                         1329 [2019/12/03 v1.28 bookmark driver for dvips (HO)]%
     \BKM@PSHeaderFile
                         1330 \def\BKM@PSHeaderFile#1{%
                         1331
                               \special{header=#1}%
                         1332 }
                         1333 (/dvips)
                         3.5.2 Driver dvipsone
                         1334 (*dvipsone)
                         1335 \NeedsTeXFormat{LaTeX2e}
                         1336 \ProvidesFile{bkm-dvipsone.def}%
                         1337 [2019/12/03 v1.28 bookmark driver for dvipsone (HO)]%
```

```
\BKM@PSHeaderFile
                   1338 \def\BKM@PSHeaderFile#1{%
                         \special{header=#1}%
                   1340 }
                   1341 (/dvipsone)
                   3.5.3 Driver textures
                   1342 (*textures)
                   1343 \NeedsTeXFormat{LaTeX2e}
                   1344 \ProvidesFile{bkm-textures.def}%
                        [2019/12/03 v1.28 bookmark driver for textures (HO)]%
\BKM@PSHeaderFile
                   1346 \def\BKM@PSHeaderFile#1{%
                   1347 \special{prePostScriptfile #1}%
                   1348 }
                   1349 (/textures)
                   3.5.4 Common part
                   1350 (*pdfmark)
    \BKM@filename
                   1351 \def\BKM@filename{\jobname.out.ps}
                   1352 \BKM@PSHeaderFile\BKM@filename
                   1353 \RequirePackage{atveryend} [2009/12/07]
                   1354 \AfterLastShipout{\BKM@pdfmark@out}
                   Do not use package rerunfilecheck here, because the file \BKM@filename is not read
 \BKM@pdfmark@out
                   during the TFX run.
                   1355 \def\BKM@pdfmark@out{%
                         \if@filesw
                   1356
                   1357
                            \newwrite\BKM@file
                            \immediate\openout\BKM@file=\BKM@filename\relax
                   1358
                   1359
                            \BKM@write{\@percentchar!}%
                   1360
                            \BKM@write{/pdfmark where{pop}}%
                            \BKM@write{%
                   1361
                              {%
                   1362
                                /globaldict where{pop globaldict}{userdict}ifelse%
                    1363
                   1364
                                /pdfmark/cleartomark load put%
                              }%
                   1365
                            }%
                   1366
                            \BKM@write{ifelse}%
                   1367
                          \else
                   1368
                            \let\BKM@write\@gobble
                   1369
                            \let\BKM@DO@entry\@gobbletwo
                   1370
                   1371
                          \fi
                   1372 }
       \BKM@write
                   1373 \def\BKM@write#{%
                         \immediate\write\BKM@file
                   1374
                   1375 }
```

\BKM@DO@entry

The specification for pdfmark says that /Color is the name of the key for color, however ghostscript only passes the key into the PDF file, thus the key name must be /C.

```
1376 \def\BKM@DO@entry#1#2{%
      \begingroup
1377
1378
        \kvsetkeys{BKM@DO}{#1}%
        \ifx\BKM@DO@srcfile\@empty
1379
1380
          \BKM@UnescapeHex\BKM@DO@srcfile
1381
        \fi
1382
        \def\BKM@DO@title{#2}%
1383
        \BKM@UnescapeHex\BKM@DO@title
1384
        \expandafter\expandafter\BKM@getx
1385
            \csname BKM@\BKM@DO@id\endcsname\@empty\@empty
1386
1387
        \let\BKM@attr\@empty
        \ifx\BKM@DO@flags\@empty
1388
1389
        \else
          \edef\BKM@attr{\BKM@attr/F \BKM@DO@flags}%
1390
1391
        \ifx\BKM@DO@color\@empty
1392
        \else
1393
          \edef\BKM@attr{\BKM@attr/C[\BKM@DO@color]}%
1394
1395
        \let\BKM@action\@empty
1396
        \ifx\BKM@DO@gotor\@empty
1397
          \ifx\BKM@DO@dest\@empty
1398
            \ifx\BKM@DO@named\@empty
1399
               \ifx\BKM@DO@rawaction\@empty
1400
                 \ifx\BKM@DO@uri\@empty
1401
                   \ifx\BKM@DO@page\@empty
1402
1403
                     \PackageError{bookmark}{%
1404
                       Missing action\BKM@SourceLocation
1405
                     }\@ehc
                     \edef\BKM@action{%
1406
                       /Action/GoTo%
1407
                       /Page 1%
1408
1409
                       /View[/Fit]%
                     }%
1410
1411
                   \else
                     \ifx\BKM@DO@view\@empty
1412
                       \def\BKM@DO@view{Fit}%
1413
                     \fi
1414
                     \edef\BKM@action{%
1415
1416
                       /Action/GoTo%
1417
                       /Page \BKM@DO@page
1418
                       /View[/\BKM@DO@view]%
                     }%
1419
                   \fi
1420
                 \else
1421
                   \BKM@UnescapeHex\BKM@DO@uri
1422
1423
                   \BKM@EscapeString\BKM@DO@uri
1424
                   \edef\BKM@action{%
1425
                     /Action<<%
                       /Subtype/URI%
1426
                       /URI(\BKM@DO@uri)%
1427
                     >>%
1428
1429
                  }%
1430
                 \fi
```

```
1431
               \else
                 \BKM@UnescapeHex\BKM@DO@rawaction
1432
1433
                 \edef\BKM@action{%
1434
                   /Action<<%
                     \BKM@DO@rawaction
1435
                  >>%
1436
                 }%
1437
               \fi
1438
            \else
1439
               \BKM@EscapeName\BKM@DO@named
1440
1441
              \edef\BKM@action{%
                 /Action<<%
1442
1443
                   /Subtype/Named%
                   /N/\BKM@DO@named
1444
                 >>%
1445
              }%
1446
            \fi
1447
          \else
1448
            \BKM@UnescapeHex\BKM@DO@dest
1449
            \BKM@EscapeString\BKM@DO@dest
1450
            \edef\BKM@action{%
1451
               /Action/GoTo%
1452
               /Dest(\BKM@DO@dest)cvn%
1453
1454
            }%
          \fi
1455
1456
        \else
1457
          \ifx\BKM@DO@dest\@empty
            \ifx\BKM@DO@page\@empty
1458
1459
               1460
            \fi
1461
            \ifx\BKM@DO@view\@empty
               \def\BKM@DO@view{Fit}%
1462
            \fi
1463
            \edef\BKM@action{%
1464
               /Page \BKM@DO@page
1465
               /View[/\BKM@DO@view]%
1466
1467
            }%
          \else
1468
1469
            \BKM@UnescapeHex\BKM@DO@dest
1470
            \BKM@EscapeString\BKM@DO@dest
            \edef\BKM@action{%
1471
               /Dest(\BKM@DO@dest)cvn%
1472
            }%
1473
1474
          \fi
          \BKM@UnescapeHex\BKM@DO@gotor
1475
          \BKM@EscapeString\BKM@DO@gotor
1476
          \edef\BKM@action{%
1477
            /Action/GoToR%
1478
            /File(\BKM@DO@gotor)%
1479
1480
            \BKM@action
          }%
1481
1482
        \fi
1483
        \BKM@write{[}%
1484
        \BKM@write{/Title(\BKM@DO@title)}%
        \ifnum\BKM@x@childs>\z@
1485
          \BKM@write{/Count \ifBKM@DO@open\else-\fi\BKM@x@childs}%
1486
1487
        \fi
1488
        \ifx\BKM@attr\@empty
```

```
\BKM@write{\BKM@attr}%
           1490
           1491
                    \fi
                    \BKM@write{\BKM@action}%
           1492
                    \BKM@write{/OUT pdfmark}%
           1493
           1494
                  \endgroup
           1495 }
           _{1496}\;\langle/\text{pdfmark}\rangle
                   Common part for pdftex and pdfmark
           3.6
           1497 \langle *pdftex | pdfmark \rangle
           3.6.1 Write auxiliary file
           1498 \verb|\RequirePackage{auxhook}|
           1499 \AddLineBeginMainAux{%
                 \string\providecommand\string\BKM@entry[2]{}%
           1501 }
 \BKM@id
           1502 \newcount\BKM@id
           1503 \BKM@id=\z@
   \BKM@O
           1504 \ensuremath{ \mbox{\mbox{000}}} \{000\}
\ifBKM@sw
           1505 \newif if BKM@sw
\bookmark
           1506 \newcommand*{\bookmark}[2][]{%
                 \if@filesw
           1508
                    \begingroup
                      \BKM@InitSourceLocation
           1509
                      \def\bookmark@text{#2}%
           1510
                      \BKM@setup{#1}%
           1511
                      \ifx\BKM@srcfile\@empty
           1512
           1513
                      \else
           1514
                         \BKM@EscapeHex\BKM@srcfile
           1515
                      \edef\BKM@prev{\the\BKM@id}%
           1516
                      \global\advance\BKM@id\@ne
           1517
                      \BKM@swtrue
           1518
                      \@whilesw\ifBKM@sw\fi{%
           1519
                        \ifnum\ifBKM@startatroot\z@\else\BKM@prev\fi=\z@
           1520
                           \BKM@startatrootfalse
           1521
                           \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
           1522
                             O{\BKM@level}0%
           1523
                           }%
           1524
                           \BKM@swfalse
           1525
           1526
                        \else
                           \expandafter\expandafter\EKM@getx
           1527
                               \csname BKM@\BKM@prev\endcsname
           1528
                           \ifnum\BKM@level>\BKM@x@level\relax
           1529
                             \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
           1530
                               {\BKM@prev}{\BKM@level}0%
           1531
                             }%
           1532
```

1489

\else

```
1533
                                 \ifnum\BKM@prev>\z@
                                   \BKM@CalcExpr\BKM@CalcResult\BKM@x@childs+1%
                1534
                1535
                                   \expandafter\xdef\csname BKM@\BKM@prev\endcsname{%
                1536
                                     {\BKM@x@parent}{\BKM@x@level}{\BKM@CalcResult}%
                                   }%
                1537
                                 \fi
                1538
                                 \BKM@swfalse
                1539
                               \else
                1540
                                 \let\BKM@prev\BKM@x@parent
                1541
                               \fi
                1542
                             \fi
                1543
                          }%
                1544
                          \pdfstringdef\BKM@title{\bookmark@text}%
                1545
                          \edef\BKM@FLAGS{\BKM@PrintStyle}%
                1546
                          \csname BKM@HypDestOptHook\endcsname
                1547
                1548
                          \BKM@EscapeHex\BKM@dest
                1549
                          \BKM@EscapeHex\BKM@uri
                          \BKM@EscapeHex\BKM@gotor
                1550
                          \BKM@EscapeHex\BKM@rawaction
                1551
                          \BKM@EscapeHex\BKM@title
                1552
                          \immediate\write\@mainaux{%
                1553
                             \string\BKM@entry{%
                1554
                               id=\number\BKM@id
                1555
                               \ifBKM@open
                1556
                                 \ifnum\BKM@level<\BKM@openlevel
                1557
                                   ,open%
                1558
                                 \fi
                1559
                               \fi
                1560
                1561
                               \BKM@auxentry{dest}%
                1562
                               \BKM@auxentry{named}%
                               \BKM@auxentry{uri}%
                1563
                               \BKM@auxentry{gotor}%
                1564
                               \BKM@auxentry{page}%
                1565
                               \BKM@auxentry{view}%
                1566
                               \BKM@auxentry{rawaction}%
                1567
                1568
                               \BKM@auxentry{color}%
                               \ifnum\BKM@FLAGS>\z@
                1569
                                 ,flags=\BKM@FLAGS
                1570
                1571
                               \fi
                1572
                               \BKM@auxentry{srcline}%
                               \BKM@auxentry{srcfile}%
                1573
                1574
                            }{\BKM@title}%
                          }%
                1575
                1576
                        \endgroup
                1577
                      \fi
                1578 }
    \BKM@getx
                1579 \def\BKM@getx#1#2#3{%
                1580
                      \def\BKM@x@parent{#1}%
                      \def\BKM@x@level{#2}%
                1581
                1582
                      \def\BKM@x@childs{#3}%
                1583 }
\BKM@auxentry
                1584 \def\BKM@auxentry#1{%
                1585
                      \expandafter\ifx\csname BKM@#1\endcsname\@empty
                1586
                      \else
```

```
1587
                                   ,#1={\csname BKM@#1\endcsname}%
                                \fi
                          1588
                          1589 }
\BKM@InitSourceLocation
                          1590 \def\BKM@InitSourceLocation{%
                                \edef\BKM@srcline{\the\inputlineno}%
                          1592
                                \BKM@LuaTeX@InitFile
                                \ifx\BKM@srcfile\@empty
                          1593
                                  \ltx@IfUndefined{currfilepath}{}{%
                          1594
                                    \edef\BKM@srcfile{\currfilepath}%
                          1595
                                  }%
                          1596
                                \fi
                          1597
                          1598 }
   \BKM@LuaTeX@InitFile
                          1599 \ifluatex
                                \ifnum\luatexversion>36 %
                                  \def\BKM@LuaTeX@InitFile{%
                          1601
                                    \begingroup
                          1602
                          1603
                                       \ltx@LocToksA={}%
                          1604
                                    \edef\x{\endgroup
                          1605
                                       \def\noexpand\BKM@srcfile{%
                                         \the\expandafter\ltx@LocToksA
                          1606
                          1607
                                         \directlua{%
                          1608
                                            if status and status.filename then %
                                              tex.settoks('ltx@LocToksA', status.filename)%
                          1609
                          1610
                                            end%
                                         }%
                          1611
                          1612
                                      }%
                                    }\x
                          1613
                                  }%
                          1614
                          1615
                                \else
                          1616
                                  \let\BKM@LuaTeX@InitFile\relax
                                \fi
                          1617
                          1618 \else
                          1619
                                \let\BKM@LuaTeX@InitFile\relax
                          1620 \fi
                          3.6.2 Read auxiliary data
                          1621 \SetupKeyvalOptions{family=BKM@DO,prefix=BKM@DO@}
                          1622 \DeclareStringOption[0]{id}
                          1623 \DeclareBoolOption{open}
                          1624 \DeclareStringOption{flags}
                          1625 \DeclareStringOption{color}
                          1626 \DeclareStringOption{dest}
                          1627 \DeclareStringOption{named}
                          1628 \DeclareStringOption{uri}
                          1629 \DeclareStringOption{gotor}
                          1630 \DeclareStringOption{page}
                          1631 \DeclareStringOption{view}
                          1632 \DeclareStringOption{rawaction}
                          1633 \DeclareStringOption{srcline}
                          1634 \DeclareStringOption{srcfile}
                          1635 \AtBeginDocument{%
                                \let\BKM@entry\BKM@DO@entry
                          1636
```

1637 }

```
1638 (/pdftex | pdfmark)
```

3.7 Option atend

3.7.1 Hook

```
1639 \langle *package \rangle
1640 \backslash ifBKM@atend
1641 \backslash else
```

\BookmarkAtEnd

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

```
1642 \newcommand{\BookmarkAtEnd}[1]{%
1643 \PackageWarning{bookmark}{%
1644 Ignored, because option 'atend' is missing%
1645 }%
1646 }%
1647 \expandafter\endinput
1648 \fi
```

\BookmarkAtEnd

```
1649 \newcommand*{\BookmarkAtEnd}{%
1650 \g@addto@macro\BKM@EndHook
1651 }

1652 \let\BKM@EndHook\@empty
1653 \(/package\)
```

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.

```
1654 (*pdftex | pdfmark)
1655 \ifBKM@atend
1656 \AfterLastShipout{%
1657 \BKM@EndHook
1658 }%
1659 \fi
1660 (/pdftex | 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.

```
\begin{array}{ll} 1661 \left< *dvipdfm \mid vtex \right> \\ 1662 \left< ifBKM@atend \right. \\ 1663 \left< RequirePackage{atenddvi} \right \% \end{array}
```

```
1664 \AtEndDvi{\BKM@EndHook}%
1665 \fi
1666 \/ dvipdfm | vtex\
```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

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

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

Bundle. All the packages of the bundle 'bookmark' 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/bookmark.tds.zip

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

4.2 Bundle installation

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

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

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_FX :

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

ightarrow tex/latex/bookmark/bkm-textures.def
                      → tex/latex/bookmark/bkm-pdftex.def
bkm-pdftex.def
bkm-vtex.def
                      → tex/latex/bookmark/bkm-vtex.def
bookmark.pdf
                      → doc/latex/bookmark/bookmark.pdf
bookmark-example.tex \rightarrow doc/latex/bookmark/bookmark-example.tex
bookmark.dtx
                      \rightarrow source/latex/bookmark/bookmark.dtx
```

If you have a docstrip.cfg that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

¹CTAN:pkg/bookmark

4.4 Refresh file name databases

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

4.5 Some details for the interested

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

plain TEX: Run docstrip and extract the files.

LATEX: Generate the documentation.

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

```
latex \let\install=y\input{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 pdfLATEX:

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

5 References

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

6 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 X_HT_EX.

[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.
- \bullet 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.

[2019/06/04 v1.27]

• unknown style options are ignored (issue 67)

[2019/12/03 v1.28]

- Documentation updates.
- adjust package loading (all required packages already loade by hyperref).

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