

The latex-lab-toc-hyperref-changes package

Changes and additions to hyperref related to toc entries

L^AT_EX Project*

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Abstract

1 Introduction

The followings contains various change needed for hyperref for the new toc tagging code. They should be only loaded if hyperref is used!

```
1 <*package>
```

2 Changes for hyperref

2.1 \contentsline,\addcontentsline

The standard \contentsline and \addcontentsline should also be used with hyperref (together with more changes below) so we have to disable the redefinition in hyperref (this requires hyperref version 7.00v!

```
2 \def\hyper@nopatch@toc{}
3 \AddToHook{package/hyperref/after}
4 {
5   \@ifpackagelater{hyperref}{2023-02-07}{}
6   {\PackageWarning{latex-lab-testphase-toc-tagging}{hyperref too old}{}
7   }
```

2.2 Add links to toc entries

```
8 \ExplSyntaxOn
9 \AddToHook{package/hyperref/after}
10 {
11   \AddToHook{contentsline/text/before}[hyp]
12   {
13     \tl_if_blank:VF \@contentsline@arg@two{text
14     {
15       \tl_if_blank:VF \@contentsline@arg@four%destination
16       {
17         \int_case:nnF {\Hy@linktoc}
```

*Initial implementation done by Ulrike Fischer

```

18         {
19             {0}{} %none
20             {1}{\hyper@linkstart{link}{\@contentsline@arg@four}} %section
21             {2}{} %page
22         }
23         {\hyper@linkstart{link}{\@contentsline@arg@four}} %all
24     }
25 }
26 }
27 \AddToHook{contentsline/text/after}[hyp]
28 {
29     \tl_if_blank:VF \@contentsline@arg@two
30     {
31         \tl_if_blank:VF \@contentsline@arg@four
32         {
33             \int_case:nnF {\Hy@linktoc}
34             {
35                 {0}{} %none
36                 {1}{\hyper@linkend} %section
37                 {2}{} %page
38             }
39             {\hyper@linkend} %all
40         } % none
41     }
42 }
43
44 \AddToHook{contentsline/page/before}[hyp]
45 {
46     \tl_if_blank:VF \@contentsline@arg@three
47     {
48         \tl_if_blank:VF \@contentsline@arg@two
49         {
50             \int_case:nnF {\Hy@linktoc}
51             {
52                 {0}{} %none
53                 {1}{} %section
54                 {2}{\hyper@linkstart{link}{\@contentsline@arg@four}} %page
55             }
56             {\hyper@linkstart{link}{\@contentsline@arg@four}} %all
57         } % none
58     }
59 }
60 \AddToHook{contentsline/page/after}[hyp]
61 {
62     \tl_if_blank:VF \@contentsline@arg@three
63     {
64         \tl_if_blank:VF \@contentsline@arg@four
65         {
66             \int_case:nnF {\Hy@linktoc}
67             {
68                 {0}{} %none
69                 {1}{} %section
70                 {2}{\hyper@linkend} %page
71             }

```

```

72         {\hyper@linkend} %all
73     } % none
74 }
75 }
76 \AddToHook{cmd/addcontentsline/before}[hyp]
77 {%
78     \ExpandArgs{ooo}
79     \Hy@addcontentsline@addbookmark
80     {\addcontentsline@arg@one}
81     {\addcontentsline@arg@two}
82     {\addcontentsline@arg@three}%
83 }
84 }
85 \ExplSyntaxOff

```

2.3 Add bookmark code to \addcontentsline

```

86 \newcommand\Hy@addcontentsline@addbookmark[3] {%#1 toc type, #2 level, #3 content
87     {%
88         \ifx\@currentHref\@empty
89             \Hy@Warning{%
90                 No destination for bookmark of \string\addcontentsline,%
91                 \MessageBreak destination is added%
92             }%
93             \phantomsection
94         \fi
95         \begingroup
96             \expandafter\ifx\csname toclevel@#2\endcsname\relax
97                 \begingroup
98                     \def\Hy@tempa{#1}%
99                     \ifx\Hy@tempa\Hy@bookmarkstype
100                         \Hy@WarningNoLine{%
101                             bookmark level for unknown #2 defaults to 0%
102                         }%
103                     \else
104                         \Hy@Info{bookmark level for unknown #2 defaults to 0}%
105                     \fi
106                 \endgroup
107                 \expandafter\gdef\csname toclevel@#2\endcsname{0}%
108             \fi
109             \edef\Hy@toclevel{\csname toclevel@#2\endcsname}%
110             \Hy@writebookmark{\csname the#2\endcsname}%
111                 {#3}%
112                 {\@currentHref}%
113                 {\Hy@toclevel}%
114                 {#1}%
115             \ifHy@verbose
116                 \begingroup
117                     \def\Hy@tempa{#3}%
118                     \@onelevel@sanitize\Hy@tempa
119                     \let\temp@online\on@line
120                     \let\on@line\@empty
121                     \Hy@Info{%
122                         bookmark\temp@online:\MessageBreak
123                         thecounter {\csname the#2\endcsname}\MessageBreak

```

```

124         text {\Hy@tempa}\MessageBreak
125         reference {\@currentHref}\MessageBreak
126         toplevel {\Hy@toplevel}\MessageBreak
127         type {#1}%
128     }%
129 \endgroup
130 \fi
131 \endgroup
132 }
133 \end{package}

```