The **latex-lab-toc-hyperref-changes** package
Changes and additions to hyperref related to toc entries

LaTeX 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   \AddToHookWithArguments{contentsline/text/before}[hyp]
12     {
13       \tl_if_blank:nF {#2}%text
14         {
15           \tl_if_blank:nF {#4}%destination
16             {
17               \int_case:nnF {\Hy@linktoc}
```

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*Initial implementation done by Ulrike Fischer

```
18            {
19              {0}{} %none
20              {1}{\hyper@linkstart{link}{#4}} %section
21              {2}{} %page
22            }
23            {\hyper@linkstart{link}{#4}} %all
24          }
25        }
26      }
27  \AddToHookWithArguments{contentsline/text/after}[hyp]
28      {
29        \tl_if_blank:nF {#2}
30          {
31            \tl_if_blank:nF {#4}
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  \AddToHookWithArguments{contentsline/page/before}[hyp]
45      {
46        \tl_if_blank:nF {#3}
47          {
48            \tl_if_blank:nF {#4} %
49              {
50                \int_case:nnF {\Hy@linktoc}
51                  {
52                    {0}{} %none
53                    {1}{} %section
54                    {2}{\hyper@linkstart{link}{#4}} %page
55                  }
56                {\hyper@linkstart{link}{#4}} %all
57              } % none
58          }
59      }
60  \AddToHookWithArguments{contentsline/page/after}[hyp]
61      {
62        \tl_if_blank:nF {#3}
63          {
64            \tl_if_blank:nF {#4}
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    \AddToHookWithArguments{cmd/addcontentsline/before}[hyp]
77     {%
78      \Hy@addcontentsline@addbookmark
79        {#1}
80        {#2}
81        {#3}%
82     }
83   }
84 \ExplSyntaxOff
```

2.3   Add bookmark code to \addcontentsline

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

```
124        reference {\@currentHref}\MessageBreak
125        toclevel {\Hy@toclevel}\MessageBreak
126        type {#1}%
127      }%
128    \endgroup
129  \fi
130  \endgroup
131 }
132 ⟨/package⟩
```