

Temporary output patches for tagging and better link support

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1 Introduction

This package contains a few patches of internal L^AT_EX needed to support paragraph tagging across page boundaries (in pdfT_EX) and improve the behaviour of links across page breaks.

Until this get properly integrated with the kernel code this has to be taken as a prototype and code, interfaces as well as behavior may change without notice and certainly without any backwards compatibility!

2 The Implementation

```
1 <*package>
2 \ProvidesPackage{output-patches-tmp-ltx}
3     [2021-08-20 v0.95 Temporary patches of output commands]
4 \RequirePackage{etoolbox}
```

2.1 Patching the OR

This add hooks around header and footer. At first initialize the hooks

```
5 \newcommand\@kernel@before@head{}
6 \newcommand\@kernel@before@foot{}
7 \newcommand\@kernel@after@head{}
8 \newcommand\@kernel@after@foot{}
9 \newcommand\@kernel@before@footins{}
10 \newcommand\@kernel@before@cclv{}
11 \newcommand\@mult@ptagging@hook{}

12
13 \patchcmd\@outputpage
14   {\vfil\color@hbox\normalcolor\hb@xt@\textwidth{\@thehead}\color@endbox}
15   {\vfil\@kernel@before@head\color@hbox\normalcolor\hb@xt@\textwidth{\@thehead}\color@endbox\@kernel@after@head}
16   {\typeout{Patching header in \string\@outputpage}}{\PATCHerror }
17
18
19 \patchcmd\@outputpage
20   {\color@hbox\normalcolor\hb@xt@\textwidth{\@thehead}\color@endbox}
21   {\@kernel@before@foot\color@hbox\normalcolor\hb@xt@\textwidth{\@thehead}\color@endbox\@kernel@after@foot}
22   {\typeout{Patching footer in \string\@outputpage}}{\PATCHerror }
```

`\@makecol` We have to patch `\@makecol` in two places:

- update 255 up front to add missing tmb/tme if necessary
- update the `\footins` stream if that one got split

```

23
24 \patchcmd\@makecol
25   {\vskip\skip\footins}
26   {\vskip\skip\footins\@kernel@before@footins}
27   {\typeout{Patching \string\@makecol\space for tagging}}{\PATCHError }
28
29 % for some reason patching with etoolbox only works in this order ...
30
31 \pretocmd\@makecol{\@kernel@before@cclv}
32   {\typeout{Patching \string\@makecol\space for tagging}}{\PATCHError }

```

(End definition for `\@makecol`. This function is documented on page ??.)

2.2 multicol adjustments

The patches for `pkgmulticol` are fairly minimal:

- At the start of the environment anything already on the page is picked up and stored in `\partial@page`, we may need to add a TMB to that (it should have a proper TME). This has to happen in the “main” stream context.

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```

33 \AddToHook{package/multicol/after}
34   {% multicol needs later loading
35
36   \patchcmd\page@sofar
37     {\setbox\z@\hbox{p}\global\dimen\tw@dp\z@}%
38     {\setbox\z@\hbox{p}\global\dimen\tw@dp\z@
39      \mult@ptagging@hook
40     }%
41     {\typeout{Patching \string\page@sofar\space for tagging}}{\PATCHError}%
42 }

```

2.3 Interrupt hooks

This requires the `l3pdfannot` module! We add the code here and not in `hyperref`, as it should also work with links created directly with the `l3pdfannot` commands. The file is only loaded by the `pdfmanagement`, so no need to test if the commands exist.

```

43 \ExplSyntaxOn
44 \def\@kernel@before@head{\pdfannot_link_off:}
45 \def\@kernel@before@foot{\pdfannot_link_off:}
46 \def\@kernel@after@head {\pdfannot_link_on:}
47 \def\@kernel@after@foot {\pdfannot_link_on:}
48 \ExplSyntaxOff
49 \endinput
50 \</package>

```

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