

Temporary output patches for tagging and better link support

Frank Mittelbach Ulrike Fischer

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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 an 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>

```

Index

The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

A		R	
<code>\AddToHook</code>	33	<code>\RequirePackage</code>	4
D		S	
<code>\def</code>	44, 45, 46, 47	<code>\setbox</code>	36, 38
<code>\dimen</code>	36, 38	<code>\skip</code>	25, 26
<code>\dp</code>	36, 38	<code>\space</code>	27, 32, 41
E		<code>\string</code>	16, 22, 27, 32, 41
<code>\endinput</code>	49	T	
<code>\ExplSyntaxOff</code>	48	TeX and L ^A T _E X 2 _ε commands:	
<code>\ExplSyntaxOn</code>	43	<code>\@kernel@after@foot</code>	8, 21, 47
F		<code>\@kernel@after@head</code>	7, 15, 46
<code>\footins</code>	2, 25, 26	<code>\@kernel@before@cclv</code>	10, 31
G		<code>\@kernel@before@foot</code>	6, 21, 45
<code>\global</code>	36, 38	<code>\@kernel@before@footins</code>	9, 26
H		<code>\@kernel@before@head</code>	5, 15, 44
<code>\hbox</code>	36, 38	<code>\@makecol</code>	2, 23
N		<code>\@mult@ptagging@hook</code>	11, 39
<code>\newcommand</code>	5, 6, 7, 8, 9, 10, 11	<code>\@outputpage</code>	13, 16, 19, 22
<code>\normalcolor</code>	14, 15, 20, 21	<code>\@thefoot</code>	20, 21
P		<code>\@thehead</code>	14, 15
<code>\patchcmd</code>	13, 19, 24, 35	<code>\color@endbox</code>	14, 15, 20, 21
<code>\PATCHerror</code>	16, 22, 27, 32, 41	<code>\color@hbox</code>	14, 15, 20, 21
pdfannot commands:		<code>\hb@xt@</code>	14, 15, 20, 21
<code>\pdfannot_link_off:</code>	44, 45	<code>\page@sofar</code>	35, 41
<code>\pdfannot_link_on:</code>	46, 47	<code>\partial@page</code>	2
<code>\pretocmd</code>	31	<code>\tw@</code>	36, 38
<code>\ProvidesPackage</code>	2	<code>\z@</code>	36, 38
		<code>\textwidth</code>	14, 15, 20, 21
		<code>\typeout</code>	16, 22, 27, 32, 41
		V	
		<code>\vfil</code>	14, 15
		<code>\vskip</code>	25, 26