

The latex-lab-testphase-new-or-2 code

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Abstract

This code implements changes to the output routine intended to be moved in the L^AT_EX kernel at some point in the future.

1 Introduction

2 The Implementation

1 `<*package>`

2.1 File declaration

```
2 \ProvidesPackage{latex-lab-testphase-new-or-2}
3     [\ltxlabneworIIdate\space v\ltxlabneworIIversion\space
4     Changes to the output routine]
```

2.2 `\@makecol` reimplementation

`footnote-floats` (*plug*) If `\DocumentMetadata` is used we use `footnotes-floats` as the default. In 2e compatibility mode this should be changed to `footnotes-floats-legacy`.

```
5 \AssignSocketPlug {build/column/outputbox}{footnotes-floats}
```

`\@makecol@handlesplitfootnotes`
`\@makecol@splitfootnotemessagehook`

This is only an early draft and doesn't do much. Contains incomplete preparation for tagging commented out.

TODO: Interfaces and code will change in the future

```
6 \def\@makecol@handlesplitfootnotes {%
7 %   \ifx\splitfootnote@continuation\@empty \else
8 %     \setbox\footins\ vbox{\splitfootnote@continuation\unvbox\footins}%
9 %     \global\let\splitfootnote@continuation\@empty
10 %   \fi
11   \ifnum\insertpenalties>\z@
12     \@makecol@splitfootnotemessagehook
13 %   \setbox\footins\ vbox{\unvbox\footins --- END at split}%
14 %   \gdef\splitfootnote@continuation {--- START after split}%
15   \fi
16 }
17 %\def\splitfootnote@continuation{}
```

This could issue warning if split footnotes are encountered.

```
18 \let \@makecol@splitfootnotemessagehook \@empty
```

(End of definition for `\@makecol@handlesplitfootnotes` and `\@makecol@splitfootnotemessagehook`. These functions are documented on page ??.)

2.3 \@outputpage reimplementation

We still have to deal with various plug setting for tagging: This needs documentation and moving.

default (*plug*)

19 \ExplSyntaxOn

TODO: *where should these plug declarations go? tagpdf?*

20 \NewTaggingSocketPlug{build/page/header}{default}

```
21 {
22   \__tag_hook_kernel_before_head:
23   #2
24   \__tag_hook_kernel_after_head:
25 }
```

26 \AssignTaggingSocketPlug{build/page/header}{default}

default (*plug*)

27 \NewTaggingSocketPlug{build/page/footer}{default}

```
28 {
29   \__tag_hook_kernel_before_foot:
30   #2
31   \__tag_hook_kernel_after_foot:
32 }
```

33 \AssignTaggingSocketPlug{build/page/footer}{default}

default (*plug*)

34 \NewTaggingSocketPlug{build/column/outputbox}{default}

```
35 {
36   \__tag_check_typeout_v:n { ==>~In~\token_to_str:N \@makecol
37                               \c_space_tl\the\c@page }
38   \tag_mc_add_missing_to_stream:Nn \@outputbox {main}
39 }
```

default (*plug*)

40 \NewTaggingSocketPlug{build/column/footins}{default}

```
41 { \tag_mc_add_missing_to_stream:Nn \footins {footnote} }
```

The two sockets do nothing (default noop) if we are in lua mode. If not they get the default assigned

42 \sys_if_engine luatex:F

```
43 {
44   \AssignTaggingSocketPlug{build/column/outputbox}{default}
45   \AssignTaggingSocketPlug{build/column/footins}{default}
46 }
```

47 \ExplSyntaxOff

48

3 Replacement for the footmisc package

The replacement for footmisc. If the new code is used, we must replace the package if it is loaded by the user:

```
49 \declare@file@substitution{footmisc.sty}{latex-lab-footmisc.ltx}
```

This can be removed the moment the remaining hooks and sockets have been integrated into footmisc, which will probably not happen before the 2025/11 release.

4 Temp stuff that is related but should go to the kernel

This is the code from latex-lab-footnotes.dtx.

```
50 \input{latex-lab-footnotes.ltx}
```

```
51 \</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		<code>\insertpenalties</code> 11	
<code>\AssignSocketPlug</code>	5		
<code>\AssignTaggingSocketPlug</code> ..	26, 33, 44, 45		
D		L	
<code>\def</code>	6, 17	<code>\let</code> 9, 18	
<code>default (plug)</code>	2, 19, 27, 34, 40	<code>\lftlabneworIIDate</code> 3	
<code>\DocumentMetadata</code>	1	<code>\lftlabneworIIversion</code> 3	
E		N	
<code>\else</code>	7	<code>\NewTaggingSocketPlug</code> 20, 27, 34, 40	
<code>\ExplSyntaxOff</code>	47	<code>noop (plug)</code>	2
<code>\ExplSyntaxOn</code>	19	P	
F		Plugs:	
<code>\fi</code>	10, 15	<code>default</code>	2, 19, 27, 34, 40
<code>\footins</code>	8, 13, 41	<code>footnote-floats</code>	5
<code>footnote-floats (plug)</code>	5	<code>footnotes-floats</code>	1
<code>footnotes-floats (plug)</code>	1	<code>footnotes-floats-legacy</code>	1
<code>footnotes-floats-legacy (plug)</code>	1	<code>noop</code>	2
G		<code>\ProvidesPackage</code>	2
I		S	
<code>\gdef</code>	14	<code>\setbox</code>	8, 13
<code>\global</code>	9	<code>\space</code>	3
I		sys commands:	
<code>\ifnum</code>	11	<code>\sys_if_engine luatex:TF</code>	42
<code>\ifx</code>	7	T	
<code>\input</code>	50	tag commands:	
		<code>\tag_mc_add_missing_to_stream:Nn</code>	
			38, 41

