

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

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v0.86d 2025-05-10

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 [`\ltlabneworIIdate\space v\ltlabneworIIversion\space`
4 Changes to the output routine]

2.2 `\@makecol` reimplementaⁿtion

`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` This is only an early draft and doesn't do much. Contains incomplete preparation for
`\@makecol@splitfootnotemessagehook` 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.)
```

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

```

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:

```

48 \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`.

```

49 \input{latex-lab-footnotes.ltx}
50 </package>

```

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