

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

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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