

# 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<sup>A</sup>T<sub>E</sub>X 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 `[\lftlabneworIIdate\space v\lftlabneworIIversion\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.)

### 2.3 \@outputpage reimplementaion

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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