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 LaTeX kernel at some point in the future.

1 Introduction

2 The Implementation

```
⟨*package⟩
```

2.1 File declaration

```
\ProvidesPackage{latex-lab-testphase-new-or-2}
        [\ltlabneworIIdate\space v\ltlabneworIIversion\space
         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`.

```
\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*

```
\def\@makecol@handlesplitfootnotes {%
%  \ifx\splitfootnote@continuation\@empty \else
%    \setbox\footins\vbox{\splitfootnote@continuation\unvbox\footins}%
%    \global\let\splitfootnote@continuation\@empty
%  \fi
  \ifnum\insertpenalties>\z@
    \@makecol@splitfootnotemessagehook
%    \setbox\footins\vbox{\unvbox\footins --- END at split}%
%    \gdef\splitfootnote@continuation    {--- START after split}%
  \fi
}
%\def\splitfootnote@continuation{}
```

This could issue warning if split footnotes are encountered.

```
\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*)

```
\ExplSyntaxOn
```

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

```
\NewTaggingSocketPlug{build/page/header}{default}
   {
     \__tag_hook_kernel_before_head:
     #2
     \__tag_hook_kernel_after_head:
   }
\AssignTaggingSocketPlug{build/page/header}{default}
```

`default` (*plug*)

```
\NewTaggingSocketPlug{build/page/footer}{default}
   {
     \__tag_hook_kernel_before_foot:
     #2
     \__tag_hook_kernel_after_foot:
   }
\AssignTaggingSocketPlug{build/page/footer}{default}
```

`default` (*plug*)

```
\NewTaggingSocketPlug{build/column/outputbox}{default}
  {
    \__tag_check_typeout_v:n { ====>~In~\token_to_str:N \@makecol
                               \c_space_tl\the\c@page }
    \tag_mc_add_missing_to_stream:Nn \@outputbox {main}
  }
```

`default` (*plug*)

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

```
\sys_if_engine_luatex:F
   {
     \AssignTaggingSocketPlug{build/column/outputbox}{default}
     \AssignTaggingSocketPlug{build/column/footins}{default}
   }
\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:

```
\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`.

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

⟨/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

\AssignSocketPlug 5
\AssignTaggingSocketPlug . . 26, 33, 44, 45

D

\def 6, 17
default (plug) 2, 19, 27, 34, 40
\DocumentMetadata 1

E

\else 7
\ExplSyntaxOff 47
\ExplSyntaxOn 19

F

\fi 10, 15
\footins 8, 13, 41
footnote-floats (plug) 5
footnotes-floats (plug) 1
footnotes-floats-legacy (plug) 1

G

\gdef 14
\global 9

I

\ifnum 11
\ifx 7
\input 49
\insertpenalties 11

L

\let 9, 18
\ltlabneworIIdate 3
\ltlabneworIIversion 3

N

\NewTaggingSocketPlug 20, 27, 34, 40
noop (plug) 2

P

Plugs:
  default 2, 19, 27, 34, 40
  footnote-floats 5
  footnotes-floats 1
  footnotes-floats-legacy 1
  noop 2
\ProvidesPackage 2

S

\setbox 8, 13
\space 3
sys commands:
  \sys_if_engine_luatex:TF 42

T

tag commands:
\tag_mc_add_missing_to_stream:Nn 38, 41
tag internal commands:
__tag_check_typeout_v:n 36
__tag_hook_kernel_after_foot: . . 31
__tag_hook_kernel_after_head: . . 24
__tag_hook_kernel_before_foot: . 29
__tag_hook_kernel_before_head: . 22
TEX and LATEX 2ε commands:
\@empty 7, 9, 18
\@makecol *1*, 36
\@makecol@handlesplitfootnotes . . . 6
\@makecol@splitfootnotemessagehook 6
\@outputbox 38
\@outputpage *2*
\c@page 37
\declare@file@substitution 48
\splitfootnote@continuation 7, 8, 9, 14, 17
\z@ 11
\the 37
tl commands:
\c_space_tl 37
token commands:
\token_to_str:N 36

U

\unvbox 8, 13

V

\vbox 8, 13