

# The `latex-lab-minipage` package

## Changes related to the tagging of `minipage` and `parbox`

L<sup>A</sup>T<sub>E</sub>X Project\*  
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### Abstract

## 1 Introduction

How to best tag `minipages` and `parboxes` is still under discussion. But as they start and contain paragraphs it is clear that some sockets are needed to interrupt and restart the tagging.

The tagging added is currently quite simple-minded. See the `todo-testfiles` and the code comments for some open points.

One of the main problems is how to properly embed them in the surrounding. When used in normal text (in a paragraph) they typically should close the `text` structure and reopen one at the end. But when used inside low-level `\vbox` or `\hbox` this is often wrong. The code uses now there two sockets `tagsupport/parbox/before` and `tagsupport/parbox/after` which can be set to `noop`, if necessary.

```
1 (*package)
```

## 2 Implementation

```
2 \ProvidesExplPackage {latex-lab-testphase-minipage}  
3   {\ltlabminipagedate} {\ltlabminipageversion}  
4   {Code related to the tagging of minipages and parboxes}
```

As `minipage` uses a socket from the footnote code we must load the OR-code:

```
5 \RequirePackage{latex-lab-testphase-new-or-1}  
6 \RequirePackage{latex-lab-testphase-new-or-2}
```

### 2.1 Provide the kernel hooks

[kernel?] We need to check/set the status before the initial `\leavevmode` to decide how to handle the structure. Perhaps the same command will work for both?

```
7 \def\@kernel@init@minipage{}  
8 \def\@kernel@init@parbox{}
```

---

\*Initial implementation done by Ulrike Fischer

We use sockets for the tag support code, as there will be cases where we want to exchange the content or disable it.

```

9 \socket_new:nn {tagsupport/minipage/before}{0}
10 \socket_new:nn {tagsupport/minipage/after} {0}
11 \socket_new:nn {tagsupport/parbox/before} {0}
12 \socket_new:nn {tagsupport/parbox/after}{0}

```

## 2.2 Patch minipage

[kernel?] The begin hook is inserted in `\@iiiminipage`

```

13 \def\@iiiminipage#1#2[#3]#4{%

```

Before switching to hmode we insert a hook. It is currently unused but could for example check if we are in vmode and change the following paragraph tag.

```

14 \@kernel@init@minipage
15 \leavevmode
16 \@pboxswfalse
17 \setlength\@tempdima{#4}%
18 \def\@mpargs{#{1}#{2}[#3]#{4}}%

```

insert the socket

```

19 \socket_use:n{tagsupport/minipage/before}% new
20 \setbox\@tempboxa\vbox\bgroup
21 \color@begingroup
22 \hsize\@tempdima
23 \textwidth\hsize \columnwidth\hsize
24 \@parboxrestore
25 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
26 \socket_assign_plug:nn{fntext/process}{mp}%
27 \let\@listdepth\@mplistdepth \@mplistdepth\z@
28 \@minipagerestore
29 \@setminipage}

```

And a hook at the end

```

30 \def@endminipage{%
31 \par
32 \unskip
33 \ifvoid\@mpfootins\else
34 \vskip\skip\@mpfootins
35 \normalcolor
36 \footnoterule
37 \unvbox\@mpfootins
38 \fi
39 \@minipagefalse %% added 24 May 89
40 \color@endgroup
41 \egroup

```

As the parbox command is called, we must prevent that it adds its additional tagging commands:

```

42 \tag_stop:n{minipage}
43 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}%
44 \tag_start:n{minipage}
45 \socket_use:n{tagsupport/minipage/after} %new end ...
46 }

```

And similar for `\parbox`

```

47 \long\def\@iiiparbox#1#2[#3]#4#5{%
48   \@kernel@init@parbox
49   \leavevmode
50   \@pboxswfalse
51   \setlength\@tempdima{#4}%
52   \socket_use:n{tagsupport/parbox/before}
53   \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
54   \ifx\relax#2\else
55     \setlength\@tempdimb{#2}%
56     \edef\@parboxto{to\the\@tempdimb}%
57     \fi
58     \if#1b\vbox
59     \else\if #1t\vtop
60     \else\ifmode\vcenter
61     \else\@pboxswtrue $\vcenter
62     \fi\fi\fi
63     \@parboxto{\let\hss\vss\let\unhbox\unvbox
64       \csname bm@#3\endcsname}%
65     \if@pboxsw \m@th$\fi
66   \@end@tempboxa%
67   \socket_use:n{tagsupport/parbox/after}
68 }

```

## 2.3 Tagging commands

```

69 \tl_new:N \l__ltboxes_tag_tl
70 \tl_set:Nn \l__ltboxes_tag_tl {Div}
71 \socket_new_plug:nnn{tagsupport/minipage/before}{tag/dflt}
72 {

```

As there was a `\leavevmode` before that is a P/text open that we have to close.

```
73   \tag_mc_end_push:\tag_struct_end:
```

TODO: the P can be further up, we need a proper method to test and handle this.

```
74   \tag_struct_begin:n{tag=\l__ltboxes_tag_tl}
75 }
```

similar for the other sockets:

```

76 \socket_new_plug:nnn{tagsupport/minipage/after}{tag/dflt}
77   {\tag_struct_end:\tag_struct_begin:n{tag=\l__tag_para_tag_tl}\tag_mc_begin_pop:n{}}
78
79 \socket_new_plug:nnn{tagsupport/parbox/before}{tag/dflt}
80   {\tag_mc_end_push:\tag_struct_end:\tag_struct_begin:n{tag=\l__ltboxes_tag_tl}}
81
82 \socket_new_plug:nnn{tagsupport/parbox/after}{tag/dflt}
83   {\tag_struct_end:\tag_struct_begin:n{tag=\l__tag_para_tag_tl}\tag_mc_begin_pop:n{}}

```

Activate the default tagging plug

```

84 \socket_assign_plug:nn{tagsupport/minipage/before}{tag/dflt}
85 \socket_assign_plug:nn{tagsupport/minipage/after} {tag/dflt}
86 \socket_assign_plug:nn{tagsupport/parbox/before} {tag/dflt}
87 \socket_assign_plug:nn{tagsupport/parbox/after} {tag/dflt}
88 </package>
89 <*latex-lab>

```

```
90 \ProvidesFile{minipage-latex-lab-testphase.ltx}
91     [\ltmlabminipagedate\space v\ltmlabminipageversion
92     code related to the tagging of minipage and parbox]
93 \RequirePackage{latex-lab-testphase-minipage}
94 </latex-lab>
```