

The latex-lab-mathpkg code*

L^AT_EX Project

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Abstract

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1 Introduction

This file implements adaption to various math packages needed for the tagging project.

2 The Implementation

1 `<@=math>`

2 `<*kernel>`

2.1 File declaration

3 `\ProvidesFile{latex-lab-mathpkg.ltx}`

4 `[2023-01-05 v0.1a mathpkg adaption]`

2.2 breqn

5 `\AddToHook{package/breqn/after}{`

6 `\RegisterMathEnvironment{dmath}`

7 `\RegisterMathEnvironment{dgroup*}`

*

```

8   \AddToHook{env/dmath/begin}{\tagpdfparaOff}
9   \AddToHook{env/dgroup*/begin}{\tagpdfparaOff}
10 }

```

2.3 cases

Force loading of amsmath before cases.

```

11 \AddToHook {package/cases/before}{\RequirePackage{amsmath}}
12 \AddToHook{package/cases/after}{
13   \RegisterMathEnvironment{subnumcases}
14 }

```

2.4 bm

Similar to the amsbsy code in latex-lab-amsmath for `\pmb` we need to mark up copies as artifact:

```

15 \ExplSyntaxOn
16 \AddToHook{package/bm/after}
17 {
18   \def\bm@pmb@@#1#2#3{%
19     \hbox_set:Nn\l__math_tmpa_box{$\m@th#1#3$}%
20     \dimen@#2\wd\tw@
21     \rlap{\box_use:N\l__math_tmpa_box}%
22     \tag_mc_end:\tag_mc_begin:n{artifact}
23     \tag_mc_reset_box:N\l__math_tmpa_box
24     \kern\dimen@
25     \raise1.5\dimen@\rlap{\box_use:N\l__math_tmpa_box}%
26     \kern\dimen@
27     \box_use_drop:N\l__math_tmpa_box
28     \tag_mc_end:\tag_mc_begin:n{}%
29   }}
30 }
31 \ExplSyntaxOff
32 </kernel>

```

2.5 Wrapper files for testphase key

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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.

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