

The latex-lab-mathpkg code*

L^AT_EX Project

October 31, 2024

Abstract

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1 Introduction

This file implements adaptations 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 adaptations]`

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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