

The latex-lab-amsmath code*

L^AT_EX Project

November 1, 2023

Abstract

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1 Introduction

This file implements adaptations to the `amsmath` package needed for the tagging project.

2 The Implementation

```
1 <@=math>
2 <*kernel>
```

2.1 File declaration

```
3 \ProvidesFile{latex-lab-amsmath.ltx}
4 [2023-01-05 v0.1a amsmath adaption]
```

2.2 Tagpdf support

To make the code independent from tagging being loaded and active we load the `tagpdf-base` package:

```
5 \RequirePackage{tagpdf-base}
6 \ExplSyntaxOn
```

*

2.3 \intertext

The `\intertext` command errors with active tagging as it is processed twice which leads to duplicated structures.

```

7 \AddToHook{package/amsmath/after}
8 {
9   \def\intertext@{%
10    \def\intertext##1{%
11      \ifvmode\else\\@empty\fi
12      \noalign{%
13        \penalty\postdisplaypenalty\vskip\belowdisplayskip
14        \vbox{

```

Stop tagging when measuring:

```

15       \ifmeasuring@\tag_stop:\fi
16       \normalbaselines
17       \ifdim\linewidth=\columnwidth
18       \else \parshape\@ne \@totalleftmargin \linewidth
19       \fi

```

End the previous mc:

```

20       \tag_mc_end_push:

```

We are already in a par so we change now to Span:

```

21       \tagpdfsetup{paratag=Span}%
22       \noindent\ignorespaces##1\par

```

Restart the MC

```

23       \tag_mc_begin_pop:n{}}%
24       \penalty\predisplaypenalty\vskip\abovedisplayskip%
25     }%
26   }}
27 }

```

```

28 \ExplSyntaxOff

```

```

29 </kernel>

```

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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.

| Symbols | D |
|--------------------------------------|--------------------------------------|
| <code>\</code> | <code>\def</code> 9, 10 |
| A | E |
| <code>\abovedisplayskip</code> | <code>\else</code> 11, 18 |
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| | | | |
|--|--------|--|--------|
| I | | R | |
| <code>\ifdim</code> | 17 | <code>\RequirePackage</code> | 5 |
| <code>\ifvmode</code> | 11 | T | |
| <code>\ignorespaces</code> | 22 | tag commands: | |
| <code>\intertext</code> | 2, 10 | <code>\tag_mc_begin_pop:n</code> | 23 |
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| <code>\linewidth</code> | 17, 18 | <code>\tag_stop:</code> | 15 |
| N | | <code>\tagpdfsetup</code> | 21 |
| <code>\noalign</code> | 12 | TeX and L ^A T _E X 2 _ε commands: | |
| <code>\noindent</code> | 22 | <code>\@empty</code> | 11 |
| <code>\normalbaselines</code> | 16 | <code>\@ne</code> | 18 |
| P | | <code>\@totalleftmargin</code> | 18 |
| <code>\par</code> | 22 | <code>\ifmeasuring@</code> | 15 |
| <code>\parshape</code> | 18 | <code>\intertext@</code> | 9 |
| <code>\penalty</code> | 13, 24 | V | |
| <code>\postdisplaypenalty</code> | 13 | <code>\vbox</code> | 14 |
| <code>\predisplaypenalty</code> | 24 | <code>\vskip</code> | 13, 24 |
| <code>\ProvidesFile</code> | 3 | | |