

The `latex-lab-amsmath` code*

L^AT_EX Project

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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>

```

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.

Symbols		D	
<code>\</code>	11	<code>\def</code>	9, 10
A		E	
<code>\abovedisplayskip</code>	24	<code>\else</code>	11, 18
<code>\AddToHook</code>	7	<code>\ExplSyntaxOff</code>	28
B		<code>\ExplSyntaxOn</code>	6
<code>\belowdisplayskip</code>	13	F	
C		<code>\fi</code>	11, 15, 19
<code>\columnwidth</code>	17		

I	R
\ifdim 17	\RequirePackage 5
\ifvmode 11	
\ignorespaces 22	T
\intertext 2, 10	tag commands:
L	\tag_mc_begin_pop:n 23
\linewidth 17, 18	\tag_mc_end_push: 20
	\tag_stop: 15
N	\tagpdfsetup 21
\noalign 12	TeX and L ^A T _E X 2 _ε commands:
\noindent 22	\@empty 11
\normalbaselines 16	\@ne 18
P	\@totalleftmargin 18
\par 22	\ifmeasuring@ 15
\parshape 18	\intertext@ 9
\penalty 13, 24	
\postdisplaypenalty 13	V
\predisplaypenalty 24	\vbox 14
\ProvidesFile 3	\vskip 13, 24