

The latex-lab-amsmath code*

L^AT_EX Project

June 11, 2023

Abstract

Contents

1	Introduction	1
2	The Implementation	1
	2.1 File declaration	1
	2.2 Tagpdf support	1
	2.3 <code>\intertext</code>	2
	Index	2

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

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
L		<code>\tag_mc_end_push:</code>	20
<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		