

The `latex-lab-mathintent` code^{*}

L^AT_EX Project

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Abstract

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1 Introduction

This file implements Experiments with the MathML4 `intent` feature. Initially to give readings for invisible times and function application.

2 The Implementation

¹ `<@@=math>`

² `<{*kernel>`

2.1 File declaration

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

⁴ `[2026-01-16 v0.1c MathML intent attributes]`

*

2.2 Invisible ops

```
5 \ExplSyntaxOn
6 \protected\def\invisibletimes{
7 \if_cs_exist:N\luamml_annotate:en
8 \luamml_annotate:en {
9 core = {[0] = 'mo', intent="times", "~~~~2062"},
10 }{
11 \latelua{}
12 }
13 \fi:
14 }
15 \protected\def\functionapplication{
16 \if_cs_exist:N\luamml_annotate:en
17 \luamml_annotate:en {
18 core = {[0] = 'mo', intent="applied_to", "~~~~2061"},
19 }{
20 \latelua{}
21 }
22 \fi:
23 }
```

2.3 MathML intent and arg

These commands have stub definitions in the Kernel Here we enable their active definition.

```
24 \AtBeginDocument{
25 \if_cs_exist:N \luamml_attribute:een
26 \let\MathMLintent\relax
27 \NewDocumentCommand \MathMLintent {} {
28 \luamml_attribute:een { intent }
29 }
30 \let\MathMLarg\relax
31 \NewDocumentCommand \MathMLarg {} {
32 \luamml_attribute:een { arg }
33 }
34 \fi:
35 }
36 \ExplSyntaxOff
37 </kernel>
```

2.4 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.

A		L	
<code>\AtBeginDocument</code>	24	<code>\latelua</code>	11, 20
		<code>\let</code>	26, 30
D		luamml commands:	
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fi commands:		<code>\NewDocumentCommand</code>	27, 31
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<code>\invisibletimes</code>	6	<code>\relax</code>	26, 30