

# The `latex-lab-mathintent` code<sup>\*</sup>

L<sup>A</sup>T<sub>E</sub>X Project

October 22, 2025

## Abstract

## Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>The Implementation</b>	<b>1</b>
2.1	File declaration . . . . .	1
2.2	Invisible ops . . . . .	1
2.3	MathML intent and arg . . . . .	2
2.4	Wrapper files for testphase key . . . . .	2
	<b>Index</b>	<b>3</b>

## 1 Introduction

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

## 2 The Implementation

<sup>1</sup> `<@@=math>`

<sup>2</sup> `<*kernel>`

### 2.1 File declaration

<sup>3</sup> `\ProvidesFile{latex-lab-mathintent.ltx}`

<sup>4</sup> `[2025-08-03 v0.1c MathML intent attributes]`

### 2.2 Invisible ops

<sup>5</sup> `\ExplSyntaxOn`

<sup>6</sup> `\protected\def\invisibletimes{`

<sup>7</sup> `\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

# 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.

<b>A</b>		<b>L</b>	
<code>\AtBeginDocument</code>	24	<code>\latelua</code>	11, 20
		<code>\let</code>	26, 30
<b>D</b>		luamml commands:	
<code>\def</code>	6, 15	<code>\luamml_annotate:nn</code>	7, 8, 16, 17
		<code>\luamml_attribute:nnn</code>	25, 28, 32
<b>E</b>		<b>M</b>	
<code>\ExplSyntaxOff</code>	36	<code>\MathMLarg</code>	30, 31
<code>\ExplSyntaxOn</code>	5	<code>\MathMLintent</code>	26, 27
<b>F</b>		<b>N</b>	
fi commands:		<code>\NewDocumentCommand</code>	27, 31
<code>\fi:</code>	13, 22, 34		
<code>\functionapplication</code>	15	<b>P</b>	
<b>I</b>		<code>\protected</code>	6, 15
if commands:		<code>\ProvidesFile</code>	3
<code>\if_cs_exist:N</code>	7, 16, 25	<b>R</b>	
<code>\invisibletimes</code>	6	<code>\relax</code>	26, 30