The `latex-lab-mathintent` code[*]

LaTeX Project

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Abstract

Contents

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      [2025-08-03 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.