IstEventB.sty

None

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1. lstEventB.sty

 $\underline{lstEventB.sty} \text{ is a LaTeX package for listing } \underline{Event-B} \text{ models. It was developed at the } \underline{University \text{ of } Southampton.}$

2. User Guide

2.1 Package Loading

Just like any other package, you need to request this package with a usepackage command in the preamble. So in the simpler case (i.e., without any options), one just types

\usepackage{lstEventB}

to load the package

2.2 Package Options

<u>lstEventB.sty</u> currently support the following options

 \bullet colour | color: Enable the colours for Event-B code.

2.3 Typsetting Event-B Code

The current supported syntax is from <u>CamilleX</u>. In particular, the Event-B mathematical symbols can be typeset using Unicode symbols. Alternatively, the mathematical symbols can be typeset using ASCII combinations (similar to the <u>Event-B Summary</u>, with the exception that the text combinations must be prefixed by ! (this is to prevent unintended translation of text in longer words). Some other symbols, e.g. . and | also need to be !-prefixed.

2.3.1 Predicate-related Symbols

The following table shows the ASCII input for typesetting predicate-related symbols.

ASCII	Symbols	Explanation		
!false	<u></u>	False		
!true	Ţ	True		
&	\wedge	Conjunction		
!or	V	Disjunction		
=>	\Rightarrow	Implication		
<=>	\Leftrightarrow	Equivalence		
!not		Negation		
!	\forall	Universal qu		
#	3	Existential of		
!.	•	Quantificati		
=	=	Equality		
/=	\neq	Inequality		

2.3.2 Set-related Symbols

The following table shows the ASCII input for typesetting set-related symbols. Sets