An Event-B Specification of

WellCommented

This project is used to verify that rendering of complicated and long comments work.

A context comment.

Test some accented unicode non-ascii chars: ÅÄÖôâôîãüïäáà

Test all unicode Event-B chars: :=⊥⊤∧⇒¬∨⇔∀∃↦≠≤≥∈∉⊆⊂⊄⊄8×
↔↞↣↦↢↣↠↤↣→↤↣→↦↠↦↠∘ ◁◁▷▷◁⊗‖ℙ⋃⋂∪∩\λ·∗÷..∅ℕℤ

Now test some tex-specific chars: \# _ $ [ ] ( )

Inline tex: $5 \times \sqrt{123}$

SETS $\boxed{1.1}$

STUFF

CONSTANTS $\boxed{1.2}$

AAAA	a
BBBB	b beta ↔↞↣↦↢↣↠↤↣→↤↣→↦↠↦↠∘ gamma
CCCC	c
DDDD	d
EEEE	e
FFFF	f
GGGG	g
HHHH	h
IIII	i
maa	ma
mii	mi

AXIOMS

axm1: $\text{partition}(\text{STUFF}, \{AAAA\}, \{BBBB\}, \{CCCC\}, \{DDDD\},$
$\{EEEE\}, \{FFFF\}, \{GGGG\}, \{HHHH\}, \{IIII\})$

Here is a
loooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooong
comment.....

axm2: $maa > 1$

axm3: $mii > 10$

axm4: $maa > 1 \Rightarrow maa > 1$ $maa > 1 \Rightarrow maa > 1$

`END`

A machine comment. A complicated comment with % # ! 4^5 x__y More of a comment. Now its done! Some inline tex: $\sqrt{123}$ Here I really want a newline. x > 1 $\Rightarrow$ maa > 0 $\vee$ $\top$ $\Leftrightarrow$ $\bot$ $\forall$x·x$\in\mathbb{N}$ $\rightarrow \mathbb{N}1 \times (\mathbb{Z} \setminus \{123\})$

`SEES` Tale

`VARIABLES`

- x Fin variabel
- r En annan variabel
- z Z represents the unknown STUFF in the universe.

`INVARIANTS`

`inv1:` $x > 0$ A comment.

`inv2:` $x > 0 \vee x > 0 \vee x > 0 \vee x > 3$
       $\vee x > 0 \vee x > 0 \vee x > 4$
       $\vee x > 0 \vee x > 0 \vee x > 5$
       $\vee x > 0 \vee x > 0 \vee x > 6$
       $\vee x > 0 \vee x > 0 \vee x > 7$
       $\vee x > 0$

Helpful stuff comment with comments en masse.

`inv3:` $r \in 1..99$

The third invariant needs a lot of explanation. For example it $5 \times \sqrt{4}$ is not good. Must exemplify better.

`inv4:` $x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > $
       $0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0$

Another interesting comment·a lot of text indeded. Will the line break eventually? Another line.

`inv5:` $z \in$ STUFF

`EVENT` INITIALISATION
`THEN`

`init1:` $x :=$ maa
`init2:` $r := 2$
`init3:` $z :=$ HHHH

`END`

`EVENT` About
`ANY`

   y

`WHERE`

`grd1:` $y = 1 \mapsto 2$ y = 1↦2
`grd2:` $\forall y \cdot y \in \mathbb{N} \Rightarrow y > 0$ Make y non-free! %#!//xyz__

`THEN`

`act1:` $x := 2$

Comment x := 2 Another x := 2 Third x := 2

`END`