# An Event-B Specification of

# WellCommented

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

CC	INTEXT Tale
1.	1 STUFF
1.5	2 AAAA BBBB CCCC DDDD EEEE FFFF GGGG HHHH IIII maa mii
MA	CHINE Journey

A context comment. Test some accented unicode non-ascii chars: ÅÄÖôâôîãüïäáà Test all unicode Event-B chars: := $\bot \top \land \Rightarrow \neg \lor \Leftrightarrow \forall \exists \mapsto \neq \leq \geq \in \notin \subseteq \subset \not\subseteq \not\subset \otimes \times$ Inline tex:  $5 \times \sqrt{123}$ SETS 1.1 STUFF 1.2 CONSTANTS AAAA BBBB CCCC DDDD EEEE е FFFF f GGGG g HHHH IIII i maa ma mii  $_{
m mi}$ AXIOMS partition(STUFF, {AAAA}, {BBBB}, {CCCC}, {DDDD}, {EEEE}, {FFFF}, axm1:  $\{\mathrm{GGGG}\}, \{\mathrm{HHHH}\}, \{\mathrm{IIII}\})$ Here is a comment..... axm2: maa > 1axm3: mii > 10

CONTEXT Tale

END

1

 $maa > 1 \Rightarrow maa > 1$   $maa > 1 \Rightarrow maa > 1$ 

MACHINE Journey 7 (a)

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.  $x > 1 \Rightarrow \max > 0 \lor \top \Leftrightarrow \bot \forall x \cdot x \in \mathbb{N} \to \mathbb{N}1 \times (\mathbb{Z} \setminus \{123\})$ 

SEES Tale

VARIABLES 2.1

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

#### INVARIANTS

```
\begin{array}{lll} \textbf{inv1:} & x>0 & \text{A comment.} \\ \textbf{inv2:} & x>0 \lor x>0 \lor x>0 \lor x>3 \\ & \lor x>0 \lor x>0 \lor x>4 \\ & \lor x>0 \lor x>0 \lor x>5 \\ & \lor x>0 \lor x>0 \lor x>6 \\ & \lor x>0 \lor x>0 \lor x>7 \\ & \lor x>0 \\ \end{array}
```

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 \lor x > 0
```

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

2.2

```
inv5: z \in STUFF
```

```
EVENT INITIALISATION
```

```
THEN
```

```
 \begin{array}{ll} \text{init1:} & x := \max \\ \text{init2:} & r := 2 \\ \text{init3:} & z := \text{HHHH} \\ \end{array}
```

**END** 

**EVENT About** 

ANY

y WHERE

THEN

act1: x := 2

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

END

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