

```

1 MACHINE
2   System
3 SEES
4   SystemCtx
5 VARIABLES  $t, x_p$ 
6 INVARIANTS
7    $inv1: t \in RRealPlus$ 
8    $inv2: x_p \in RRealPlus \rightarrow S$ 
9 EVENTS
10  INITIALISATION
11  THEN
12     $act1: t := Rzero$ 
13     $act2: x_p := RRealPlus \rightarrow S$ 
14  END
15
16  Progress
17  THEN
18     $act1: t :| t' \in RRealPlus \wedge (t \mapsto t' \in lt)$ 
19  END
20
21  Behave
22  ANY  $e$ 
23  WHERE
24     $grd1: e \in DE(S)$ 
25     $grd2: Solvable(Closed2Infinity(t), e)$ 
26  THEN
27     $act1: x_p :| x_{p'} \in RRealPlus \rightarrow S \wedge AppendSolutionBAP(e, RRealPlus, Closed2Open(Rzero, t), Closed2Infinity(t), x_p, x_{p'})$ 
28  END
29
30 END

```