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1 |----- MODULE AbsJupiterH -----|
  | AbsJupiter with a history of all list states across the system. |
5 | EXTENDS AbsJupiter |
6 |-----|
7 | VARIABLE list |
8 | varsH  $\triangleq \langle vars, list \rangle$  |
10 | TypeOKH  $\triangleq TypeOK \wedge (list \subseteq List)$  |
11 |-----|
12 | InitH  $\triangleq Init \wedge list = \{InitState\}$  |
14 | DoH(c)  $\triangleq Do(c) \wedge list' = list \cup \{state'[c]\}$  |
16 | RevH(c)  $\triangleq Rev(c) \wedge list' = list \cup \{state'[c]\}$  |
18 | SRevH  $\triangleq SRev \wedge list' = list \cup \{state'[Server]\}$  |
19 |-----|
20 | NextH  $\triangleq$  |
21 |    $\vee \exists c \in Client : DoH(c) \vee RevH(c)$  |
22 |    $\vee SRevH$  |
23 | FairnessH  $\triangleq$  |
24 |    $WF_{varsH}(SRevH \vee \exists c \in Client : RevH(c))$  |
26 | SpecH  $\triangleq InitH \wedge \Box[NextH]_{varsH} \wedge FairnessH$  |
27 |-----|
  | WLSpec: the weak list specification |
31 | WLSpec  $\triangleq Comm(Cop)!EmptyChannel$  |
32 |    $\Rightarrow \forall l1, l2 \in list :$  |
33 |      $\wedge Injective(l1)$  |
34 |      $\wedge Injective(l2)$  |
35 |      $\wedge Compatible(l1, l2)$  |
37 | THEOREM SpecH  $\Rightarrow WLSpec$  |
  | SLSpec: the strong list specification |
41 |-----|
  | \ * Modification History |
  | \ * Last modified Sat Dec 15 09:08:53 CST 2018 by hengxin |
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