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- Module AbsJupiterH
1 [
     AbsJupiter with a history of all list states across the system.
5 EXTENDS AbsJupiter
    Variable list
    varsH \stackrel{\Delta}{=} \langle vars, list \rangle
     TypeOKH \triangleq TypeOK \land (list \subseteq List)
    InitH \stackrel{\triangle}{=} Init \land list = \{InitState\}
    DoH(c) \stackrel{\triangle}{=} Do(c) \wedge list' = list \cup \{state'[c]\}
    RevH(c) \stackrel{\Delta}{=} Rev(c) \wedge list' = list \cup \{state'[c]\}
     SRevH \triangleq SRev \land list' = list \cup \{state'[Server]\}
19 ⊢
    NextH \stackrel{\triangle}{=}
20
          \lor \exists c \in Client : DoH(c) \lor RevH(c)
21
          \vee SRevH
22
     FairnessH \triangleq
24
         WF_{varsH}(SRevH \lor \exists c \in Client : RevH(c))
25
     SpecH \stackrel{\Delta}{=} InitH \wedge \Box [NextH]_{varsH} \wedge FairnessH
28
     WLSpec \stackrel{\Delta}{=} The weak list specification
29
          Comm(Cop)! Empty Channel
30
                    \Rightarrow \forall l1, l2 \in list:
31
                          \land Injective(l1)
32
                          \land Injective(l2)
33
                          \land Compatible(l1, l2)
34
    Theorem SpecH \Rightarrow WLSpec
36
     \* Modification History
     \* Last modified Mon Dec 31 20:38:09 CST 2018 by hengxin
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