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- MODULE CJupiterH
1 [
     CJupiter with a history of all list states across the system.
 5 EXTENDS CJupiter
     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{\triangle}{=} InitH \wedge \Box [NextH]_{varsH} \wedge FairenessH
28
     WLSpec \stackrel{\triangle}{=} 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 18:58:29 CST 2018 by hengxin
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