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- MODULE CJupiterH
1 [
     CJupiter with a history of all list states across the system.
 6 EXTENDS CJupiter
    Variable list
    varsH \stackrel{\Delta}{=} \langle vars, list \rangle
    TypeOKH \triangleq TypeOK \land (list \subseteq List)
   InitH \triangleq 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]\}
20 ⊢
    NextH \stackrel{\triangle}{=}
21
         \lor \exists c \in Client : DoH(c) \lor RevH(c)
22
         \vee SRevH
23
    SpecH \stackrel{\triangle}{=} InitH \land \Box [NextH]_{varsH} \land \mathrm{WF}_{varsH} (SRevH \lor \exists \ c \in Client : RevH(c))
26 |
    WLSpec: the weak list specification
     WLSpec \triangleq comm!EmptyChannel
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
    SLSpec: the strong list specification
     \ * Created Tue Oct 09 09:28:48 CST 2018 by hengxin
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