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- MODULE A Jupiter H
1 [
     AJupiter with a history of all list states across the system.
 6 EXTENDS AJupiter
    Variable list
     varsH \stackrel{\triangle}{=} \langle vars, list \rangle
     TypeOKH \stackrel{\triangle}{=} 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) \triangleq Rev(c) \land list' = list \cup \{state'[c]\}
     SRevH \triangleq SRev \land list' = list \cup \{state'[Server]\}
19
20
    NextH \stackrel{\triangle}{=}
21
          \lor \exists c \in Client : DoH(c) \lor RevH(c)
22
          \vee SRevH
23
    SpecH \stackrel{\triangle}{=} InitH \wedge \Box [NextH]_{varsH} \wedge WF_{varsH}(NextH)
25
26 |
    Weak List Consistency (WLSpec)
     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
    Strong List Consistency (SLSpec)
     \* Modification History
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