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– Module AbsJupiterH -
 2 EXTENDS AbsJupiter
3 ⊦
    Variable list
     varsH \stackrel{\Delta}{=} \langle vars, list \rangle
     TypeOKH \triangleq TypeOK \land (list \subseteq List)
     InitH \stackrel{\triangle}{=} Init \wedge list = \{InitState\}
    DoH(c) \stackrel{\Delta}{=} 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]\}
16
    NextH \stackrel{\triangle}{=}
17
          \lor \exists c \in Client : DoH(c) \lor RevH(c)
18
          \vee SRevH
19
     FairnessH \triangleq
21
          WF_{varsH}(SRevH \lor \exists c \in Client : RevH(c))
22
     SpecH \; \stackrel{\Delta}{=} \; InitH \wedge \Box [NextH]_{varsH} \; \wedge \mathit{FairnessH}
24
25
     WLSpec \stackrel{\triangle}{=} The weak list specification
26
          Comm!EmptyChannel
                                               no need to check Compatible at every state
27
                    \Rightarrow \forall l1, l2 \in list : (only at quiescence)
28
                          \land Injective(l1) no duplicate elements
29
                          \land Injective(l2)
                                                (true due to our distinctness assumption)
30
                          \land Compatible(l1, l2)
31
    THEOREM SpecH \Rightarrow \Box WLSpec
33
     \* Modification History
     \* Last modified Fri Feb 01 13:02:51 CST 2019 by hengxin
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