─────────── MODULE *XJupiterH* ───────────

EXTENDS *XJupiter*, *TLCUtils*

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VARIABLE *list*
$varsH \triangleq \langle vars,\ list \rangle$

$TypeOKH \triangleq TypeOK \land (list \subseteq List)$

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$InitH \triangleq Init \land list = \{InitState\}$

$DoH(c) \triangleq Do(c) \land list' = list \cup \{state'[c]\}$

$RevH(c) \triangleq Rev(c) \land list' = list \cup \{state'[c]\}$

$SRevH \triangleq SRev \land list' = list \cup \{state'[Server]\}$

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$NextH \triangleq$
  $\quad \lor \exists\, c \in Client : DoH(c) \lor RevH(c)$
  $\quad \lor SRevH$

$FairnessH \triangleq$
  $\quad \land \mathrm{WF}_{varsH}(SRevH \lor \exists\, c \in Client : RevH(c))$

$SpecH \triangleq InitH \land \Box[NextH]_{varsH}\ \boxed{\land\ FairnessH}$

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$WLSpec \triangleq$ ⬚ The weak list specification
  $\quad Comm\,!\,EmptyChannel$
  $\qquad\quad \Rightarrow \forall\, l1,\ l2 \in list :$
  $\qquad\qquad\quad \land Injective(l1)$
  $\qquad\qquad\quad \land Injective(l2)$
  $\qquad\qquad\quad \land Compatible(l1,\ l2)$

THEOREM $SpecH \Rightarrow \Box WLSpec$

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\ * Modification History
\ * Last modified *Wed Jan* 30 21:39:16 *CST* 2019 by anonymous
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