———— MODULE *NJupiterH* ————

EXTENDS *NJupiter*

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

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

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

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

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

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

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

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

$SpecH \triangleq InitH \wedge \square[NextH]_{varsH}\ \boxed{\wedge\ FairnessH}$

$WLSpec \triangleq$ ░The weak list specification░
$\quad \forall\, l1,\ l2 \in list :$
$\quad\quad \wedge Injective(l1)$
$\quad\quad \wedge Injective(l2)$
$\quad\quad \wedge Compatible(l1,\ l2)$

THEOREM $SpecH \Rightarrow \square WLSpec$

\ * Modification History
\ * Last modified *Thu Apr* 18 11:25:09 *CST* 2019 by *tangruize*
\ * Created *Tue Mar* 12 10:16:31 *CST* 2019 by *tangruize*

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