

MODULE <i>AJupiterH</i>
EXTENDS <i>AJupiter</i>
VARIABLE <i>list</i> $varsH \triangleq \langle vars, list \rangle$ $TypeOKH \triangleq TypeOK \wedge (list \subseteq List)$
$InitH \triangleq Init \wedge list = \{InitState\}$ $DoH(c) \triangleq Do(c) \wedge list' = list \cup \{state'[c]\}$ $RevH(c) \triangleq Rev(c) \wedge list' = list \cup \{state'[c]\}$ $SRevH \triangleq SRev \wedge list' = list \cup \{state'[Server]\}$
$NextH \triangleq$ $\quad \vee \exists c \in Client : DoH(c) \vee RevH(c)$ $\quad \vee SRevH$ $FairnessH \triangleq$ $\quad WF_{varsH}(SRevH \vee \exists c \in Client : RevH(c))$ $SpecH \triangleq InitH \wedge \Box[NextH]_{varsH} \wedge FairnessH$
$WLSpec \triangleq$ The weak list specification $Comm!EmptyChannel$ no need to check <i>Compatible</i> at every state $\Rightarrow \forall l1, l2 \in list :$ $\quad \wedge Injective(l1)$ no duplicate elements $\quad \wedge Injective(l2)$ true due to our distinctness assumption $\quad \wedge Compatible(l1, l2)$
THEOREM $SpecH \Rightarrow \Box WLSpec$
\ * Modification History \ * Last modified <i>Wed Jan 30 21:37:29 CST 2019</i> by <i>hengxin</i> \ * Created <i>Thu Aug 30 21:26:18 CST 2018</i> by <i>hengxin</i>