

MODULE <i>AbsJupiterH</i>
EXTENDS <i>AbsJupiter</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 $\Rightarrow \forall l1, l2 \in list :$ (only at quiescence) $\quad \wedge Injective(l1)$ no duplicate elements $\quad \wedge Injective(l2)$ (true due to our distinctness assumption) $\quad \wedge Compatible(l1, l2)$
THEOREM $SpecH \Rightarrow \Box WLSpec$
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