

R-all-rule2^{11,40}

$$\begin{aligned} & \forall T:\text{Type}\{i\}, L:(T \text{ List}), R:(\{x:T \mid (x \in L)\} \rightarrow \text{es_realizer}\{i:l\}), \\ & P:(\{x:T \mid (x \in L)\} \rightarrow \text{event_system}\{i:l\} \rightarrow \text{prop}\{i:l\}). \\ & (\forall x,y:T. \text{decidable}(x = y)) \\ & \Rightarrow \text{l.all}(L; T; x.\text{R-realizes}\{i:l\}(R(x); \text{es}.P(x, \text{es}))) \\ & \Rightarrow \text{l.all}(L; T; x.\text{l.all}(L; T; y.(\neg(x = y \in T)) \Rightarrow \text{R-compat}\{i:l\}(R(x); R(y)))) \\ & \Rightarrow \text{R-realizes}\{i:l\} \\ & \quad (\text{Rall}(L; x.R(x)); \text{es.l.all}(L; T; x.P(x, \text{es}))) \end{aligned}$$