

world^{0,22}

World

$$\begin{aligned} \equiv_{\text{def}} & T: (\text{Id} \rightarrow \text{Id} \rightarrow \text{Type}) \\ & \times TA: (\text{Id} \rightarrow \text{Id} \rightarrow \text{Type}) \\ & \times M: (\text{IdLnk} \rightarrow \text{Id} \rightarrow \text{Type}) \\ & \times (i: \text{Id} \rightarrow \mathbb{N} \rightarrow (x: \text{Id} \rightarrow T(i, x))) \\ & \times (i: \text{Id} \rightarrow \mathbb{N} \rightarrow \text{Action}(\text{w-action-dec}(TA; M; i))) \\ & \times (i: \text{Id} \rightarrow \mathbb{N} \rightarrow (\{m: \text{Msg}(M) \mid \text{source}(\text{mlnk}(m)) = i\} \text{List})) \\ & \times (i: \text{Id} \rightarrow \text{w-automaton}(T(i); TA(i); M)) \\ & \times \text{Top} \end{aligned}$$

clarification:

world^{i:l}

$$\begin{aligned} \equiv_{\text{def}} & T: (\text{Id} \rightarrow \text{Id} \rightarrow \text{Type}_i) \\ & \times TA: (\text{Id} \rightarrow \text{Id} \rightarrow \text{Type}_i) \\ & \times M: (\text{IdLnk} \rightarrow \text{Id} \rightarrow \text{Type}_i) \\ & \times (i: \text{Id} \rightarrow \mathbb{N} \rightarrow (x: \text{Id} \rightarrow T(i, x))) \\ & \times (i: \text{Id} \rightarrow \mathbb{N} \rightarrow \text{Action}(\text{w-action-dec}(TA; M; i))) \\ & \times (i: \text{Id} \rightarrow \mathbb{N} \rightarrow (\{m: \text{Msg}(M) \mid \text{source}(\text{mlnk}(m)) = i \in \text{Id}\} \text{List})) \\ & \times (i: \text{Id} \rightarrow \text{w-automaton}(T(i); TA(i); M)) \\ & \times \text{Top} \end{aligned}$$