

es-interface-local^{11,40}

X is local

$$\begin{aligned} \equiv_{\text{def}} \quad & \exists f:i:\text{Id} \rightarrow xs:(\text{Id List}) \times (k:\text{Kind} \rightarrow \text{state}@i | xs \rightarrow \text{kindtype}(i;k) \rightarrow (A + \text{Top})) \\ & (X = (\lambda e.((f(\text{loc}(e))).2)(\text{kind}(e),(\text{state when } e),\text{val}(e)))) \end{aligned}$$

clarification:

$$\begin{aligned} & \text{es-interface-local}\{i:l\} \\ & \quad (es; A; X) \\ \equiv_{\text{def}} \quad & \exists f:i:\text{Id} \rightarrow xs:(\text{Id List}) \\ & \quad \times (k:\text{Kind} \rightarrow \text{es-partial-state}(es;i;xs) \rightarrow \text{es-kindtype}(es;i;k) \rightarrow (A + \text{Top})) \\ & \quad (X \\ & \quad = \\ & \quad (\lambda e.((f(\text{es-loc}(es; e))).2)(\text{es-kind}(es; e),\text{es-state-when}(es;e),\text{es-val}(es; e))) \\ & \quad \in \text{es-E}(es) \rightarrow (A + \text{Top})) \end{aligned}$$