

## es-is-interface-triggers<sup>11,40</sup>

$$\begin{aligned} & \forall es:ES, A:\text{Type}, i:\text{Id}, ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, \\ & \quad \text{conds}:k:\text{Knd} \text{ fp} \rightarrow V:\text{Type} \times (\text{State}(ds) \rightarrow V \rightarrow (A + \text{Top})). \\ & (\forall e:E. \\ & \quad (\text{loc}(e) = i) \\ & \Rightarrow (\uparrow \text{kind}(e) \in \text{dom}(\text{conds})) \\ & \Rightarrow ((\text{valtype}(e) \subseteq_r (\text{conds}(\text{kind}(e)).1)) \ \& \ (\text{state}@loc(e) \subseteq_r \text{State}(ds)))) \\ & \Rightarrow (\forall e:E. \\ & \quad (\uparrow (e \in_b \text{es-triggers}(es;i;ds;\text{conds}))) \\ & \iff (\text{loc}(e) = i \ \& \ (\text{kind}(e) \in \text{fpf-domain}(\text{conds})) \\ & \quad \ \& \ (\uparrow \text{isl}((\text{conds}(\text{kind}(e)).2)((\text{state when } e), \text{val}(e)))))) \end{aligned}$$