

effect-p^{0,22}

@i events of kind k change x to f State(ds) (val: T)
 $\equiv_{\text{def}} (\forall x:\text{Id. } \text{vartype}(i;x) \subseteq \rho \text{ } ds(x)?\text{Top}) \ \& \ \text{kindtype}(i;k) \subseteq \rho \ T$
 $\ \& \ \forall e@i. \ \text{kind}(e) = k \Rightarrow \text{valtype}(e) \subseteq \rho \ T \ \& \ (x \text{ after } e) = f((\text{state when } e), \text{val}(e))$

clarification:

effect-p($es;i;ds;k;T;x;f$)
 $\equiv_{\text{def}} (\forall x:\text{Id. } \text{es-vartype}(es; i; x) \subseteq \rho \ \text{fpf-cap}(ds;\text{IdDeq};x;\text{Top})) \ \& \ \text{es-kindtype}(es;i;k) \subseteq \rho \ T$
 $\ \& \ \text{alle-at}(es;i;e.\text{es-kind}(es; e) = k \in \text{Knd})$
 $\ \Rightarrow \text{es-valtype}(es; e) \subseteq \rho \ T$
 $\ \ \& \ \text{es-after}(es; x; e)$
 $\ =$
 $\ \ f(\text{es-state-when}(es;e), \text{es-val}(es; e))$
 $\ \in \ \text{fpf-cap}(ds;\text{IdDeq};x;\text{Top})$