

es-update-iff^{11,40}

$\text{es-update-iff}(es; i; x; ds; e.P(e); s.f(s))$
 $\equiv_{\text{def}} (\forall x: \text{Id. vartype}(i; x) \subseteq_r ds(x) ? \text{Top})$
 $c \wedge \forall e @ i.$
 $(P(e) \Rightarrow ((x \text{ after } e) = f((\text{state when } e))))$
 $\& ((\neg P(e)) \Rightarrow ((x \text{ after } e) = (x \text{ when } e)))$

clarification:

$\text{es-update-iff}(es; i; x; ds; e.P(e); s.f(s))$
 $\equiv_{\text{def}} (\forall x: \text{Id. es-vartype}(es; i; x) \subseteq_r \text{fpf-cap}(ds; \text{IdDeq}; x; \text{Top}))$
 $c \wedge \text{alle-at}(es; i; e. (P(e)$
 $\Rightarrow (\text{es-after}(es; x; e)$
 $=$
 $f(\text{es-state-when}(es; e))$
 $\in \text{fpf-cap}(ds; \text{IdDeq}; x; \text{Top}))$
 $\& ((\neg P(e)) \Rightarrow (\text{es-after}(es; x; e) = \text{es-when}(es; x; e) \in \text{fpf-cap}(ds; \text{IdDeq}; x; \text{Top}))))$