

## last-state-change3<sup>0,22</sup>

$$\begin{aligned} & \forall es:\text{ES}, ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, T:\text{Type}, i:\text{Id}, f:(\text{State}(ds) \rightarrow T). \\ & (\forall x, y:T. \text{Dec}(x = y)) \\ & \Rightarrow (\forall x:\text{Id}. \text{vartype}(i;x) \subseteq \rho \text{ } ds(x)?\text{Top}) \\ & \Rightarrow \forall e'@i. \\ & \quad (\forall e:\text{E}. e \leq e' \Rightarrow f(\text{state when } e) = f(\text{state after } e') \in T) \\ & \quad \vee (\exists e:\text{E}. \\ & \quad \quad e \leq e' \\ & \quad \quad \& \neg f(\text{state when } e) = f(\text{state after } e') \\ & \quad \quad \& (\forall e'':\text{E}. \\ & \quad \quad \quad (e < \text{loc } e'' \Rightarrow e'' \leq e' \Rightarrow f(\text{state when } e'') = f(\text{state after } e') \in T)) \end{aligned}$$