

change-lemma^{11,40}

$$\begin{aligned} & \forall es:\text{event_system}\{i:l\}, x,i:\text{Id}, T:\text{Type}. \\ & (\forall x,y:T. \text{decidable}((x = y \in T))) \\ & \Rightarrow \text{es-dtype}(es; i; x; T) \\ & \Rightarrow (\forall e',e:\text{es-E}(es). \\ & \quad \text{es-le}(es; e; e') \\ & \quad \Rightarrow (\text{loc}(e') = i) \\ & \quad \Rightarrow (\neg(\text{es-after}(es; x; e') = \text{es-when}(es; x; e) \in T)) \\ & \quad \Rightarrow (\exists ev:\text{es-E}(es) \\ & \quad \quad ((\text{es-le}(es; e; ev) \wedge \text{es-le}(es; ev; e')) \\ & \quad \quad \wedge (\neg(\text{es-after}(es; x; ev) = \text{es-when}(es; x; ev) \in T)))))) \end{aligned}$$