

last-state-change3^{11,40}

$\forall es:\text{ES}, ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, T:\text{Type}, i:\text{Id}, f:(\text{State}(ds) \rightarrow T).$
 $(\forall x, y:T. \text{Dec}(x = y))$
 $\Rightarrow @i \text{ discrete } ds$
 $\Rightarrow \forall e'@i.$
 $(\forall e:\text{E}. e \leq_{\text{loc}} e' \Rightarrow (f((\text{discrete state when } e)) = f((\text{discrete state after } e')) \in T))$
 $\vee (\exists e:\text{E}$
 $(e \leq_{\text{loc}} e'$
 $c \wedge ((\neg(f((\text{discrete state when } e)) = f((\text{discrete state after } e')))))$
 $\& (\forall e'':\text{E}.$
 $(e <_{\text{loc}} e'')$
 $\Rightarrow e'' \leq_{\text{loc}} e'$
 $\Rightarrow (f((\text{discrete state when } e'')) = f((\text{discrete state after } e')) \in T))))$