

es-local-pred-property^{11,40}

$$\begin{aligned} & \forall es:ES, P:(E \rightarrow \mathbb{B}), e:E. \\ & ((\uparrow(e \in_b \text{last}(P))) \iff (\exists a:E. ((a <_{\text{loc}} e) \& (\uparrow(P(a)))))) \\ & \& ((\uparrow(e \in_b \text{last}(P))) \\ & \Rightarrow ((\text{last}(P)(e) <_{\text{loc}} e) \\ & \& (\uparrow(P(\text{last}(P)(e)))) \\ & \& (\forall e'':E. (e'' <_{\text{loc}} e) \Rightarrow (\text{last}(P)(e) <_{\text{loc}} e'') \Rightarrow (\neg(\uparrow(P(e'')))))))) \end{aligned}$$