

existse-before-iff^{0,22}

$\forall es:\mathbf{ES}, e':\mathbf{E}, P:(\{e:\mathbf{E} \mid \text{loc}(e) = \text{loc}(e') \in \text{Id}\} \rightarrow \mathbf{Prop}).$
 $\exists e < e'. P(e) \Leftrightarrow \neg \text{first}(e') \ \& \ P(\text{pred}(e')) \vee \exists e < \text{pred}(e'). P(e)$