

iseg-es-hist^{11,40}

$\forall ds:\text{fpf}(\text{Id}; x.\text{Type}), da:\text{fpf}(\text{Knd}; k.\text{Type}), i:\text{Id}, es:\text{event_system}\{i:l\}.$
 $(\forall x:\text{Id}. \text{subtype_rel}(\text{es_vartype}(es; i; x); \text{fpf_cap}(ds; \text{id-deq}; x; \text{top})))$
 $\Rightarrow (\forall e:\text{es-E}(es).$
 $(\text{loc}(e) = i)$
 $\Rightarrow \text{subtype_rel}(\text{es_valtype}(es; e); \text{fpf_cap}(da; \text{Kind-deq}; \text{es-kind}(es; e); \text{top})))$
 $\Rightarrow (\forall e_1, e_2:\text{es-E}(es), L:(\text{event-info}(ds; da) \text{ List}).$
 $(\text{loc}(e_1) = i)$
 $\Rightarrow (\text{loc}(e_2) = i)$
 $\Rightarrow (\neg(L = []))$
 $\Rightarrow \text{iseg}(\text{event-info}(ds; da); L; \text{es-hist}\{i:l\}(es; e_1; e_2))$
 $\Rightarrow \exists e \in [e_1, e_2]. L = \text{es-hist}\{i:l\}(es; e_1; e)$