

EOrder^{0,22}

EventsWithOrder

$\equiv_{\text{def}} E:\text{Type}$
 $\times \text{EqDecider}(E)$
 $\times \text{pred?}:(E \rightarrow (E + \text{Unit}))$
 $\times \text{info}:(E \rightarrow (\text{Id} \times \text{Top} + (\text{IdLnk} \times E) \times \text{Top}))$
 $\times \text{EOrderAxioms}(E; \text{pred?}; \text{info})$
 $\times \text{Top}$

clarification:

EOrder{i:l}

$\equiv_{\text{def}} E:\text{Type}_i$
 $\times \text{EqDecider}(E)$
 $\times \text{pred?}:(E \rightarrow (E + \text{Unit}))$
 $\times \text{info}:(E \rightarrow (\text{Id} \times \text{Top} + (\text{IdLnk} \times E) \times \text{Top}))$
 $\times \text{EOrderAxioms}\{i\}(E;$
 $\quad \text{pred?};$
 $\quad \text{info})$
 $\times \text{Top}$