

es-when-first-discrete^{11,40}

$\forall es:\text{event_system}\{i:l\}, e:\text{es-E}(es), x:\text{Id}, T:\text{Type}, v:T.$
 $\text{es-dtype}(es; \text{loc}(e); x; T)$
 $\Rightarrow (\uparrow\text{es-first}(es; e))$
 $\Rightarrow ((\text{es-initially}(es; \text{loc}(e); x) = v) \iff (\text{es-when}(es; x; e) = v))$