

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

$\forall es:\text{event_system}\{i:l\}, e:\text{es-E}(es), x:\text{Id}, T:\text{Type}.$

$\text{es-dtype}(es; \text{loc}(e); x; T)$

$\Rightarrow (\uparrow \text{es-first}(es; e))$

$\Rightarrow (\text{es-when}(es; x; e) = \text{es-initially}(es; \text{loc}(e); x) \in T)$