

fifo-antecedent^{13,45}

$$\begin{aligned} & \text{fifo-antecedent}(es; Sys; f) \\ \equiv_{\text{def}} & \forall e, e': E(Sys). (\text{loc}(e) = \text{loc}(e')) \Rightarrow f(e) \leq_{\text{loc}} f(e') \Rightarrow e \leq_{\text{loc}} e' \end{aligned}$$

clarification:

$$\begin{aligned} & \text{fifo-antecedent}(es; Sys; f) \\ \equiv_{\text{def}} & \forall e: \text{es-E-interface}(es; Sys), e': \text{es-E-interface}(es; Sys). \\ & (\text{es-loc}(es; e) = \text{es-loc}(es; e') \in \text{Id}) \Rightarrow \text{es-le}(es; f(e); f(e')) \Rightarrow \text{es-le}(es; e; e') \end{aligned}$$