

## **chain-order**<sup>13,45</sup>

$x \ll y \equiv_{\text{def}} \exists e: E(Sys). x \text{ before } y \in \text{chain}(e)$

*clarification:*

$\text{chain-order}(es; Sys; chain; x; y) \equiv_{\text{def}} \exists e: \text{es-E-interface}(es; Sys). x \text{ before } y \in \text{chain}(e) \in \text{Id}$