

## sys-antecedent<sup>13,45</sup>

$\text{sys-antecedent}(es; Sys) \equiv_{\text{def}} \{f: E(Sys) \rightarrow E(Sys) \mid \forall x: E(Sys). f(x) \text{ c} \leq x\}$

*clarification:*

$\text{sys-antecedent}(es; Sys)$   
 $\equiv_{\text{def}} \{f: \text{es-E-interface}(es; Sys) \rightarrow \text{es-E-interface}(es; Sys) \mid$   
 $\quad \forall x: \text{es-E-interface}(es; Sys). \text{es-cause}(es; f(x); x)\}$