

chain-path-ordered-same-loc^{13,45}

$\forall es:ES, Sys:AbsInterface(Top), f:sys\text{-}antecedent(es;Sys), x, y:E(Sys).$
 $x \text{ is } f*(y) \Rightarrow (\text{loc}(x) = \text{loc}(y) \in \text{Id}) \Rightarrow x \leq_{\text{loc}} y$