

chain-path-ordered-same-loc3^{13,45}

$\forall es:\text{ES}, Cmd:\text{Type}, In:\text{AbsInterface}(Cmd), isupdate:(Cmd \rightarrow \mathbb{B}), Sys, Out:\text{AbsInterface}(\text{Top}).$
 $(E(In) \subseteq_r E(Sys))$
 $\Rightarrow (\forall f:\text{sys-antecedent}(es; Sys).$
 $(\forall e:E(In). f(e) = e \in E)$
 $\Rightarrow (\forall chain:(E(Sys) \rightarrow (\text{Id List})).$
 $\quad \text{chain-consistent}(f; chain)$
 $\Rightarrow (\forall x, z:E(Sys).$
 $\quad x \text{ is } f*(z) \Rightarrow (\forall y:E(Sys). (x <_{\text{loc}} y \Rightarrow y \leq_{\text{loc}} z \Rightarrow x \text{ is } f*(y))))$