

nonempty-cmd-history^{11,40}

$\forall es:\text{ES}, \text{Config}:\text{AbsInterface}(\text{chain_config}()), \text{Cmd}:\text{Type}, \text{Sys}:\text{AbsInterface}(\text{chain_sys}(\text{Cmd}))$,
 $e:\text{E}$.
 $(0 < \|\text{cmd-history}(e)\|) \Rightarrow (\exists e':\text{E}. (e' \leq_{\text{loc}} e \& (\uparrow(e' \in_b \text{Sys}(\text{valid})))))$