

loc-on-path-decomp^{11,40}

$\forall es:ES, Sys:AbsInterface(Top), L:(E(Sys) \text{ List}), j:Id.$

$loc\text{-on-path}(es;j;L)$

$\Rightarrow (\exists u:E(Sys)$

$(\exists A,B:E(Sys) \text{ List. } (loc(u) = j \ \& \ L = (A @ [u / B]) \ \& \ (\neg loc\text{-on-path}(es;j;A))))$