fifo-antecedent-order-preserving[13,45]

$\forall es$:ES, Sys:AbsInterface(Top), f:sys-antecedent(es;Sys).
fifo-antecedent(es;Sys;f)
$\Rightarrow (\forall a, b$:E$(Sys)$.
$\quad (\mathrm{loc}(a) = \mathrm{loc}(b) \in \mathrm{Id})$
$\quad \Rightarrow (\mathrm{loc}(f(a)) = \mathrm{loc}(f(b)) \in \mathrm{Id})$
$\quad \Rightarrow \{(f(a) <\mathrm{loc}\ f(b)) \Longleftrightarrow (a <\mathrm{loc}\ b)\})$