

fifo_wf^{11,40}

$\forall es:ES, C, T:\text{Type}, S:(C \rightarrow C \rightarrow E \rightarrow \mathbb{P}), R:(C \rightarrow E \rightarrow \mathbb{P}),$
 $code:(j,i:C \rightarrow e:\{x:E \mid S(j,i,x)\} \rightarrow \text{state@loc}(e) \rightarrow T),$
 $decode:(i:C \rightarrow e:\{x:E \mid R(i,x)\} \rightarrow \text{state@loc}(e) \rightarrow T).$
for clients C sends FIFO
from j to i via $(S[j,i],code)$
receives at i via $(R[i],decode)$
 $\in \mathbb{P}$