

f2f+-pred-unique-min^{11,40}

$\forall es:ES, ff:FIFO, f2f+:F2F+-decls.$

$\text{plus-ify}\{i:1\}(es;ff;is_req ;is_ack ;awaiting ;owes_ack)$

$\Rightarrow (\forall sndr, rcvr:ff.C.$

$(\exists m:E. ([m: sndr \dashv\vdash is_req \rightarrow rcvr] \vee [m: rcvr \dashv\vdash is_ack \rightarrow sndr])))$

$\Rightarrow (\exists m:E$

$(([m: sndr \dashv\vdash is_req \rightarrow rcvr] \vee [m: rcvr \dashv\vdash is_ack \rightarrow sndr])$

$\& (\forall y:E.$

$([y: sndr \dashv\vdash is_req \rightarrow rcvr] \vee [y: rcvr \dashv\vdash is_ack \rightarrow sndr])$

$\Rightarrow ((y = m) \vee (\exists z:E. f2f+-pred(z,y))))))$