

## **f2f+-p+-total**<sup>11,40</sup>

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

$\text{plus-ify}\{i:l\}(es;ff;is\_req;is\_ack;awaiting;owes\_ack)$

$\Rightarrow (\forall sdr, rcvr:ff.C, e, e':E.$

$[(e: sdr \dashv\vdash is\_req \rightarrow rcvr] \vee [e: rcvr \dashv\vdash is\_ack \rightarrow sdr])$

$\Rightarrow ([e': sdr \dashv\vdash is\_req \rightarrow rcvr] \vee [e': rcvr \dashv\vdash is\_ack \rightarrow sdr])$

$\Rightarrow (((f2f+-p+(e,e')) \vee (e = e')) \vee (f2f+-p+(e',e)))$