

## plus-ify\_wf<sup>11,40</sup>

$\forall es:ES\{i\}, ff:FIFO\{i:l\}(es), is\_req, is\_ack:(E \rightarrow \mathbb{P}\{i\}), awaiting, owes\_ack:(Id \rightarrow Id \rightarrow Id).$   
 $(ff.C \subseteq_r Id)$   
 $\Rightarrow (\forall i, j:ff.C. @i(awaiting(i,j):\mathbb{B}) \ \& \ @i(owes\_ack(i,j):\mathbb{B}))$   
 $\Rightarrow (\forall i:ff.C, e:E. (ff.R(i,e)) \Rightarrow (loc(e) = i \in Id))$   
 $\Rightarrow (\forall e:E. Dec(is\_req(e)) \ \& \ Dec(is\_ack(e)))$   
 $\Rightarrow (\forall i, j:ff.C, e:E. (ff.S(i,j,e)) \Rightarrow (loc(e) = i \in Id))$   
 $\Rightarrow (plus\text{-}ify\{i:l\}(es; ff; is\_req; is\_ack; awaiting; owes\_ack) \in \mathbb{P}\{i'\})$