

ESMachineAxiom^{11,40}

ESMachineAxiom($E;T;V;M;loc;knd;val;$
 $when;after;$
 $sndr;Trans;Send;Choose$)
 $\equiv_{\text{def}} (\forall e:E. (\lambda x.after(x,e)) = Trans(loc(e),knd(e),val(e),\lambda x.when(x,e)))$
 $\& (\forall e:E.$
 $(\uparrow islocal(knd(e)))$
 $\Rightarrow ((\uparrow isl(Choose(loc(e),act(knd(e)),\lambda x.when(x,e))))$
 $c \wedge (val(e) = outl(Choose(loc(e),act(knd(e)),\lambda x.when(x,e))))))$
 $\& (\forall e:E.$
 $(\uparrow isrcv(knd(e)))$
 $\Rightarrow (<lnk(knd(e)), tag(knd(e)), val(e)> \in Send$
 $(loc(sndr(e))$
 $,knd(sndr(e))$
 $,val(sndr(e))$
 $,\lambda x.when(x,sndr(e))))))$

clarification:

ESMachineAxiom($E;T;V;M;loc;knd;val;$
 $when;after;$
 $sndr;Trans;Send;Choose$)
 $\equiv_{\text{def}} (\forall e:E.$
 $(\lambda x.after(x,e)) = Trans(loc(e),knd(e),val(e),\lambda x.when(x,e)) \in x:Id \rightarrow T(loc(e),x))$
 $\& (\forall e:E.$
 $(\uparrow islocal(knd(e)))$
 $\Rightarrow ((\uparrow isl(Choose(loc(e),act(knd(e)),\lambda x.when(x,e))))$
 $c \wedge (val(e)$
 $=$
 $outl(Choose(loc(e),act(knd(e)),\lambda x.when(x,e)))$
 $\in V(loc(e),act(knd(e))))))$
 $\& (\forall e:E.$
 $(\uparrow isrcv(knd(e)))$
 $\Rightarrow (<lnk(knd(e)), tag(knd(e)), val(e)> \in Send$
 $(loc(sndr(e))$
 $,knd(sndr(e))$
 $,val(sndr(e))$
 $,\lambda x.when(x,sndr(e))) \in Msg(M)))$