

ESMachineAxiom^{0,22}

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

clarification:

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