

ESMachineAxiom_wf^{0,22}

$\forall E:\text{Type}_i, T, V:(\text{Id} \rightarrow \text{Id} \rightarrow \text{Type}_i), M:(\text{IdLnk} \rightarrow \text{Id} \rightarrow \text{Type}_i), loc:(E \rightarrow \text{Id}), kind:(E \rightarrow \text{Knd}),$
 $val:(e:E \rightarrow \text{eventtype}(kind;loc;V;M;e)), when, after:(x:\text{Id} \rightarrow e:E \rightarrow T(loc(e),x)),$
 $sndr:(\{e:E \mid \text{isrcv}(kind(e))\} \rightarrow E),$
 $Trans:(i:\text{Id} \rightarrow k:\text{Knd} \rightarrow \text{kindcase}(k; a.V(i,a); l,t.M(l,t)) \rightarrow (x:\text{Id} \rightarrow T(i,x)) \rightarrow (x:\text{Id} \rightarrow T(i,x))),$
 $Send:(i:\text{Id} \rightarrow k:\text{Knd} \rightarrow \text{kindcase}(k; a.V(i,a); l,t.M(l,t)) \rightarrow (x:\text{Id} \rightarrow T(i,x)) \rightarrow (\text{Msg}(M) \text{ List})),$
 $Choose:(i,a:\text{Id} \rightarrow (x:\text{Id} \rightarrow T(i,x)) \rightarrow (V(i,a) + \text{Unit})).$
 $\text{ESMachineAxiom}(E;T;V;M;loc;kind;val;when;after;sndr;Trans;Send;Choose) \in \text{Prop}_i$