

w-machine-independent^{0,22}

w-machine-independent($w;i;k;x$)

\equiv_{def} let $Choose, Trans, Send = \text{w-machine}(w;i)$ in
 $\forall s_1, s_2:(x:\text{Id} \rightarrow \text{vartype}(i;x)).$
 $(\forall z:\text{Id}. \neg z = x \Rightarrow s_1(z) = s_2(z))$
 $\Rightarrow (\forall v:\text{w-kindtype}(w.\text{TA}(i);w.\text{M};i)(k).$
 $(\forall z:\text{Id}. \neg z = x \Rightarrow Trans(k,v,s_1,z) = Trans(k,v,s_2,z))$
 $\& Send(k,v,s_1) = Send(k,v,s_2))$
 $\& (\text{islocal}(k) \Rightarrow Choose(\text{act}(k),s_1) = Choose(\text{act}(k),s_2))$

clarification:

w-machine-independent($w;i;k;x$)

\equiv_{def} let $Choose, Trans, Send = \text{w-machine}(w;i)$ in
 $\forall s_1:(x:\text{Id} \rightarrow \text{w-vartype}(w;i;x)), s_2:(x:\text{Id} \rightarrow \text{w-vartype}(w;i;x)).$
 $(\forall z:\text{Id}. \neg z = x \in \text{Id} \Rightarrow s_1(z) = s_2(z) \in \text{w-vartype}(w;i;z))$
 $\Rightarrow (\forall v:\text{w-kindtype}(w.\text{TA}(i);w.\text{M};i)(k).$
 $(\forall z:\text{Id}. \neg z = x \in \text{Id} \Rightarrow Trans(k,v,s_1,z) = Trans(k,v,s_2,z) \in \text{w-vartype}(w;i;z))$
 $\& Send(k,v,s_1) = Send(k,v,s_2) \in \text{w-Msg}(w) \text{ List}$
 $\& (\text{islocal}(k)$
 $\Rightarrow Choose(\text{act}(k),s_1) = Choose(\text{act}(k),s_2) \in \text{w-kindtype}(w.\text{TA}(i);w.\text{M};i)(k)+\text{Unit})$