

sends-rule^{0,22}

$\forall i:\text{Id}, k:\text{Knd}, l:\text{IdLnk}, ds:x:\text{Id fp} \rightarrow \text{Type}, da:a:\text{Knd fp} \rightarrow \text{Type},$
 $f:(tg:\text{Id} \times (\text{State}(ds) \rightarrow \text{Valtype}(da;k) \rightarrow (da(\text{recv}(l,tg))?\text{Void List}))) \text{ List}.$
 $\text{source}(l) = i$
 $\Rightarrow @i: \text{with declarations}$
 $ds:ds$
 $da:da$
 $k(v) \text{ sends } f \text{ s v on link } l$
 $\text{realizes } es.$
 $(\forall x:\text{Id}. \text{ vartype}(i;x) \subseteq \rho \ ds(x)?\text{Top})$
 $\& (\forall e:\text{E}. \text{ loc}(e) = i \in \text{Id} \Rightarrow \text{valtype}(e) \subseteq \rho \ \text{Valtype}(da;\text{kind}(e)))$
 $\& (\forall e:\text{E}. \text{ isrcv}(e) \Rightarrow \text{lnk}(e) = l \in \text{IdLnk} \Rightarrow \text{valtype}(e) \subseteq \rho \ \text{Valtype}(da;\text{kind}(e)))$
 $\& \{m:\text{Msg} | \text{source}(\text{mlnk}(m)) = i\} \subseteq \rho \ \text{Msg}(\lambda l,tg. da(\text{recv}(l,tg))?\text{Top})$
 $\& (\forall e:\text{E}.$
 $\text{loc}(e) = i \in \text{Id}$
 $\Rightarrow \text{kind}(e) = k \in \text{Knd}$
 $\Rightarrow \text{sends}(l;e)$
 $=$
 $\text{tagged-messages}(l; \lambda z. z \text{ when } e; \text{val}(e); f)$
 $\in \text{Msg}(\lambda l,tg. da(\text{recv}(l,tg))?\text{Top}) \text{ List})$