

sends-p-es-sends-iff^{0,22}

$\forall ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, da:k:\text{Knd} \text{ fp} \rightarrow \text{Type}, l:\text{IdLnk}, tgs:\text{Id List}, ks:\text{Knd List},$
 $g:(k:\{k:\text{Knd} \mid (k \in ks) \} \rightarrow (tg:\{tg:\text{Id} \mid (tg \in tgs) \}$
 $\quad \times (\text{State}(ds) \rightarrow \text{Valtype}(da;k) \rightarrow (da(\text{rcv}(l,tg))?\text{Void List}))) \text{ List}).$
 $\text{no_repeats}(\text{Id};tgs)$
 $\Rightarrow (\forall tg \in tgs. \text{rcv}(l,tg) \in \text{dom}(da))$
 $\Rightarrow (\forall es:\text{ES}.$
 $\quad (\forall k \in ks. \text{sends } k(v:da(k)?\text{Void}) \text{ on } l:\text{tagged}(g(k),\text{State}(ds),v):\text{dt}(l;da))$
 $\quad \& (\forall tg \in tgs. \text{only events in } ks \text{ send on } l \text{ with } tg)$
 $\quad \Rightarrow \text{es-decls}(es;\text{source}(l);ds;da)$
 $\quad \Rightarrow \text{with decls } ds$
 $\quad \quad da$
 $\quad \text{sends on } l \text{ from } e$
 $\quad \text{include if deq-member}(\text{KindDeq};\text{kind}(e);ks) \rightarrow$
 $\quad \quad \text{tagged-list-messages}((\text{state when } e);\text{val}(e);g(\text{kind}(e)))$
 $\quad \quad \text{else nil fi}$
 $\quad \text{and only these for tags in } tgs)$