

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

$\forall es:ES, k:Knd, l:IdLnk, tg:Id, ds:x:Id \text{ fp} \rightarrow \text{Type}, da:k:Knd \text{ fp} \rightarrow \text{Type}, n:\mathbb{N}, a:ecl(ds;da),$
 $f:(\text{State}(ds) \rightarrow \text{Valtype}(da;k) \rightarrow da(\text{rcv}(l,tg))?\text{Void}).$
 $es\text{-decls}(es;\text{source}(l);ds;da)$
 \Rightarrow (with decls ds
 da
 sends on l from e
 include if $\text{kind}(e) = k \wedge_2 \text{action}[[a\ n]][\text{es-init}(es;e);e] \rightarrow$
 $[[tg, f((\text{state when } e), \text{val}(e))]]$
 else nil fi
 and only these for tags in $[tg]$
 \Leftrightarrow
 $es\text{-sends-iff2}(es;l;tg;da(\text{rcv}(l,tg))?\text{Top};ds;e.\text{kind}(e) = k$
 & $ecl\text{-es-act}(es;n;a)(\text{es-init}(es;e),e);e.f((\text{state when } e), \text{val}(e)))$)