

sends-p-implies-conditional-send-p^{11,40}

$\forall k:\text{Knd}, ds:x:\text{Id } \text{fp} \rightarrow \text{Type}, m\text{Typ}, v\text{Typ}:\text{Type}, l:\text{IdLnk}, tg:\text{Id},$
 $f:(\text{State}(ds) \times v\text{Typ}) \rightarrow (m\text{Typ} + \text{Top}), es:\text{ES}.$
sends $k(v:v\text{Typ})$ on l :
tagged($[<tg$
 $, \lambda s.v. \text{ if can-apply}(f;<s, v>) \text{ then } [\text{do-apply}(f;<s, v>)] \text{ else } [] \text{ fi}$
 $>], \text{State}(ds), v$):if $\text{isrcvl}(l;k)$ then $tg : m\text{Typ} \oplus \text{tag}(k) : v\text{Typ}$ else $tg : m\text{Typ}$ fi
 $\Rightarrow k(v:v\text{Typ})$ sends on l $[tg:m\text{Typ}, f <\text{state}, v>]?$]