

conditional-send1-function^{11,40}

$\forall k:\text{Knd}, T, A, B:\text{Type}, l:\text{IdLnk}, x, tg:\text{Id}, f:(A \rightarrow B \rightarrow T), c:(A \rightarrow B \rightarrow \mathbb{B}), es:\text{ES}.$
 $k(v:B)$ sends
 $f(x:A,v)$ on
 l tagged with $tg:T$
 provided $c(x,v)$
 $\Rightarrow (\exists g:\{e:\mathbb{E} \mid \text{loc}(e) = \text{source}(l) \in \text{Id} \ \& \ \text{kind}(e) = k \ \& \ (\uparrow(c((x \text{ when } e), \text{val}(e))))\} \rightarrow \mathbb{E}$
 $(\forall e:\{e:\mathbb{E} \mid \text{loc}(e) = \text{source}(l) \in \text{Id} \ \& \ \text{kind}(e) = k \ \& \ (\uparrow(c((x \text{ when } e), \text{val}(e))))\} .$
 $(\text{kind}(g(e)) = \text{rcv}(l, tg) \in \text{Knd})$
 $c \wedge (\text{sender}(g(e)) = e$
 $\ \& \ (\forall e'':\mathbb{E}. (\text{kind}(e'') = \text{rcv}(l, tg) \in \text{Knd}) \Rightarrow (\text{sender}(e'') = e) \Rightarrow (e'' = g(e)))$
 $\ \& \ \text{val}(g(e)) = f((x \text{ when } e), \text{val}(e))))$