

index-property1^{11,40}

$\forall E, X_1, X_2:\text{Type}, dE:\text{EqDecider}(E), dL:\text{EqDecider}(\text{IdLnk}), pred?:(E \rightarrow (?E)),$
 $info:(E \rightarrow ((:\text{Id} \times X_1) + (:(:\text{IdLnk} \times E) \times X_2))),$
 $p:(\forall e:E, l:\text{IdLnk}.$
 $\quad \exists e':E$
 $\quad (\forall e'':E.$
 $\quad (\uparrow\text{rcv?}(e''))$
 $\quad \Rightarrow (\text{sender}(e'') = e)$
 $\quad \Rightarrow (\text{link}(e'') = l)$
 $\quad \Rightarrow (((e'' = e') \vee e'' < e') \& \text{loc}(e') = \text{destination}(l) \in \text{Id}))).$
 $\text{SWellFounded}(\text{pred!}(e;e'))$
 $\Rightarrow (\forall e:E. (\neg(\uparrow\text{first}(e))) \Rightarrow (\text{loc}(\text{pred}(e)) = \text{loc}(e) \in \text{Id}))$
 $\Rightarrow (\forall e, e':E. (\text{loc}(e) = \text{loc}(e') \in \text{Id}) \Rightarrow (\text{pred?}(e) = \text{pred?}(e')) \Rightarrow (e = e'))$
 $\Rightarrow (\forall e:E, l:\text{IdLnk}, n:\{0..\|\text{receives}(dE;dL;pred?;info;p;e;l)\|^{-}\}.$
 $\quad \exists e':E$
 $\quad ((\uparrow\text{rcv?}(e'))$
 $\quad c \wedge (\text{link}(e') = l \& \text{sender}(e') = e \& \text{index}(dE;dL;pred?;info;p;e') = n \in \mathbb{Z})))$