

msg-spec-loc-decl^{11,40}

$$\begin{aligned} & \text{msg-spec-loc-decl}(snd; i; da) \\ \equiv_{\text{def}} & \forall k:\text{Knd}, l:\text{IdLnk}. \\ & (\uparrow\text{fpf-dom}(\text{product-deq}(\text{Knd}; \text{IdLnk}; \text{Kind-deq}; \text{idlnk-deq}); \langle k, l \rangle; snd)) \\ \Rightarrow & ((\text{source}(l) = i) \\ & \wedge \text{l.all}(\text{map}((\lambda p.p.1); \\ & \quad \text{fpf-ap}(snd; \text{product-deq}(\text{Knd}; \text{IdLnk}; \text{Kind-deq}; \text{idlnk-deq}); \langle k, l \rangle)); \\ & \quad \text{Id}; \\ & \quad \text{tg}.\uparrow\text{fpf-dom}(\text{Kind-deq}; \text{rcv}(l, \text{tg}); da)))) \end{aligned}$$

clarification:

$$\begin{aligned} & \text{msg-spec-loc-decl}(snd; i; da) \\ \equiv_{\text{def}} & \forall k:\text{Knd}, l:\text{IdLnk}. \\ & (\uparrow\text{fpf-dom}(\text{product-deq}(\text{Knd}; \text{IdLnk}; \text{Kind-deq}; \text{idlnk-deq}); \langle k, l \rangle; snd)) \\ \Rightarrow & ((\text{source}(l) = i \in \text{Id}) \\ & \wedge \text{l.all}(\text{map}((\lambda p.p.1); \\ & \quad \text{fpf-ap}(snd; \text{product-deq}(\text{Knd}; \text{IdLnk}; \text{Kind-deq}; \text{idlnk-deq}); \langle k, l \rangle)); \\ & \quad \text{Id}; \\ & \quad \text{tg}.\uparrow\text{fpf-dom}(\text{Kind-deq}; \text{rcv}(l, \text{tg}); da)))) \end{aligned}$$