

ecl-machine3-realizes^{0,22}

$\forall ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, da:k:\text{Knd} \text{ fp} \rightarrow \text{Type}, x:\text{Id}, T:\text{Type}, ks:\text{Knd List},$
 $a:(\mathbb{N} \rightarrow (k:\{k:\text{Knd} | (k \in ks) \} \rightarrow \text{State}(ds) \rightarrow \text{Valtype}(da;k) \rightarrow T \rightarrow \mathbb{B})), snd:\text{msg-spec}(ds;da), i:\text{Id}.$
 $\text{Normal}(T)$
 $\Rightarrow \text{Normal}(ds)$
 $\Rightarrow \text{Normal}(da)$
 $\Rightarrow (\forall k \in ks. \text{ isrcv}(k) \Rightarrow i = \text{destination}(\text{lnk}(k)) \in \text{Id})$
 $\Rightarrow \text{msg-spec-loc-decl}(snd;i;da)$
 $\Rightarrow (\forall k \in ks. k \in \text{dom}(da))$
 $\Rightarrow \neg x \in \text{dom}(ds)$
 $\Rightarrow \text{ecl-machine3}(ds;da;x;T;ks;a;snd)$
 $\Vdash es. \forall l \in \text{remove-repeats}(\text{IdLnkDeq}; \text{msg-spec-links}(snd)).$
 $\quad \text{es-decls}(es; \text{source}(l); ds \oplus x : T; da)$
 $\quad \Rightarrow \text{with decls } ds \oplus x : T$
 $\quad \quad da$
 $\quad \quad \text{sends on } l \text{ from } e$
 $\quad \quad \text{include if } \text{deq-member}(\text{KindDeq}; \text{kind}(e); ks) \rightarrow$
 $\quad \quad \quad \text{tagged-list-messages}((\text{state when } e);$
 $\quad \quad \quad \quad \text{val}(e);$
 $\quad \quad \quad \quad \text{ecl-m3}(a; snd; x; l)(\text{kind}(e)))$
 $\quad \quad \quad \text{else nil fi}$
 $\quad \quad \text{and only these for tags in } \text{ecl-tags}(l; snd)$