

ecl-machine1-realizes^{11,40}

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 $\forall i:\text{Id}, ds:\text{fpf}(\text{Id}; x.\text{Type}), da:\text{fpf}(\text{Knd}; k.\text{Type}), A:\text{ecl}(ds; da).$ 
 $\text{normal-ds}\{i:l\}$ 
 $\quad (ds)$ 
 $\Rightarrow \text{normal-da}\{i:l\}$ 
 $\quad (da)$ 
 $\Rightarrow \text{l.all}(\text{ecl-kinds}(A);$ 
 $\quad \text{Knd};$ 
 $\quad k.(((\uparrow\text{isrcv}(k)) \Rightarrow (i = \text{destination}(\text{lnk}(k)) \in \text{Id})) \wedge (\uparrow\text{fpf-dom}(\text{Kind-deq}; k; da)))$ 
 $\quad )$ 
 $\Rightarrow (\neg(\uparrow\text{fpf-dom}(\text{id-deq}; \text{mkid}\{\text{ecl:ut2}\}; ds)))$ 
 $\Rightarrow \text{R-realizes}\{i:l\}$ 
 $\quad (\text{ecl-machine1}\{\text{ecl:ut2}\}$ 
 $\quad \quad (i; ds; da; A);$ 
 $\quad es.(\text{es-decls}(es; i; ds; da)$ 
 $\quad \Rightarrow (\text{subtype\_rel}(\text{es-vartype}(es; i; \text{mkid}\{\text{ecl:ut2}\});$ 
 $\quad \quad \text{ecl-trans-type}(\text{ecl-trans}(A)))$ 
 $\quad c \wedge (\forall n:\mathbb{N}.$ 
 $\quad \quad \text{alle-at}(es;$ 
 $\quad \quad i;$ 
 $\quad \quad e.((\uparrow\text{es-bact}\{i:l\}$ 
 $\quad \quad \quad (ds; da; A; es; n; \text{es-init}(es; e); e))$ 
 $\quad \iff ((\text{es-kind}(es; e) \in \text{ecl-trans-ks}(\text{ecl-trans}(A)))$ 
 $\quad c \wedge (\uparrow(\text{ecl-trans-a}(\text{ecl-trans}(A))$ 
 $\quad \quad (n$ 
 $\quad \quad ,\text{es-kind}(es; e)$ 
 $\quad \quad ,\text{es-state-when}(es; e)$ 
 $\quad \quad ,\text{es-val}(es; e)$ 
 $\quad \quad ,\text{es-when}(es; \text{mkid}\{\text{ecl:ut2}\}; e)))))))))))$ 

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