

ecl-disjoint-compatible^{11,40}

$\forall i:\text{Id}, ds:\text{fpf}(\text{Id}; x.\text{Type}), da:\text{fpf}(\text{Knd}; k.\text{Type}), A:\text{ecl}(ds; da), snd:\text{msg-spec}(ds; da), upd:\text{update-spec}(ds; da).$
 $\text{update-spec-decl}(upd; ds)$
 $\Rightarrow \text{msg-spec-loc-decl}(snd; i; da)$
 $\Rightarrow (\neg(\uparrow\text{fpf-dom}(\text{id-deq}; \text{mkid}\{\text{ecl:ut2}\}; ds)))$
 $\Rightarrow \text{R-Feasible}\{i:l\}$
 $\quad (\text{ecl-machine}\{\text{ecl:ut2}\}(i; ds; da; A; snd; upd))$
 $\Rightarrow (\forall R:\text{es_realizer}\{i:l\}.$
 $\quad (\neg(\uparrow\text{R-has-loc}(R; i)))$
 $\quad \Rightarrow \text{R-Feasible}\{i:l\}$
 $\quad (R)$
 $\Rightarrow \text{l_all}(\text{append}(\text{ecl-kinds}(A); \text{fpf-domain}(da));$
 $\quad \text{Knd};$
 $\quad k.((\uparrow\text{isrcv}(k))$
 $\Rightarrow ((\text{source}(\text{lnk}(k)) = i \in \text{Id})$
 $\Rightarrow \text{subtype_rel}(\text{ma-valtype}(da; k);$
 $\quad \text{fpf-cap}(\text{R-da}(R; \text{destination}(\text{lnk}(k))); \text{Kind-deq}; k; \text{top}))$
 $\wedge ((\text{destination}(\text{lnk}(k)) = i \in \text{Id})$
 $\Rightarrow \text{subtype_rel}(\text{fpf-cap}(\text{R-da}(R; \text{source}(\text{lnk}(k))); \text{Kind-deq}; k; \text{void});$
 $\quad \text{fpf-cap}(da; \text{Kind-deq}; k; \text{void}))))))$
 $\Rightarrow \text{R-compat}\{i:l\}$
 $\quad (\text{ecl-machine}\{\text{ecl:ut2}\}(i; ds; da; A; snd; upd); R))$