

R-state-var-init-compat^{0,22}

$\forall i:\text{Id}, ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, da:k:\text{Knd} \text{ fp} \rightarrow \text{Type}, x:\text{Id}, T:\text{Type}, v:T, ks:\text{Knd List},$
 $tr:(k:\{k:\text{Knd} \mid (k \in ks) \} \rightarrow \text{State}(ds) \rightarrow \text{Valtype}(da;k) \rightarrow T \rightarrow T).$
 $\neg x \in \text{dom}(ds)$
 $\Rightarrow (\forall A:\text{Realizer}.$
 $\quad \text{R-Feasible}(A)$
 $\quad \Rightarrow \neg \text{R-occurs}(A;i;x)$
 $\quad \Rightarrow ds \parallel \text{R-ds}(A;i)$
 $\quad \Rightarrow da \parallel \text{R-da}(A;i)$
 $\quad \Rightarrow (\forall k \in ks. \text{isrcv}(k) \Rightarrow \text{R-da}(A;\text{source}(\text{lnk}(k)))(k)?\text{Void} \subseteq \rho \text{Valtype}(da;k))$
 $\quad \Rightarrow (\forall k \in ks. k \in \text{dom}(da))$
 $\quad \Rightarrow (\forall k:\text{Knd}. (k \in ks) \Rightarrow \neg \text{write-restricted}(A;i;k))$
 $\quad \Rightarrow (\forall y:\text{Id}. y \in \text{dom}(ds \oplus x : T) \Rightarrow \neg \text{read-restricted}(A; i; y))$
 $\quad \Rightarrow \text{R-state-var-init}(i;ds;da;x;T;v;ks;tr) \parallel A)$