

R-state-var-rule^{0,22}

$\forall i:\text{Id}, ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, da:k:\text{Knd} \text{ fp} \rightarrow \text{Type}, x:\text{Id}, T:\text{Type}, ks:\text{Knd List},$
 $tr:(k:\{k:\text{Knd} \mid (k \in ks)\} \rightarrow \text{State}(ds) \rightarrow \text{Valtype}(da;k) \rightarrow T \rightarrow T).$
 $ds \parallel x : T$
 $\Rightarrow \text{Normal}(T)$
 $\Rightarrow (\forall k:\text{Knd}. (k \in ks) \Rightarrow \text{isrcv}(k) \Rightarrow i = \text{destination}(\text{lnk}(k)))$
 $\Rightarrow \text{Normal}(ds)$
 $\Rightarrow \text{Normal}(da)$
 $\Rightarrow \text{R-state-var}(i;ds;da;x;T;ks;tr)$
 $\quad \Vdash es.\text{es-decls}(es;i;ds;da)$
 $\quad \Rightarrow \text{vartype}(i;x) \subseteq \rho T$
 $\quad \& \forall e@i.$
 $\quad \quad \forall e' \geq e. (x \text{ after } e') = \text{es-trans-state-from}\{i:1\}(es;ks;tr;x \text{ when } e;e') \in T$