

## R-state-var-compat-unequal-loc<sup>0,22</sup>

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