

not-R-occurs-effect-compat^{0,22}

$\forall i, x:\text{Id}, T:\text{Type}, ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, f:(\text{State}(ds) \rightarrow T \rightarrow \text{DeclaredType}(ds;x)), k:\text{Knd},$
 $A:\text{Realizer}.$

$\text{R-Feasible}(A)$

$\Rightarrow \neg \text{R-occurs}(A;i;x)$

$\Rightarrow ds \parallel \text{R-ds}(A;i)$

$\Rightarrow k : T \parallel \text{R-da}(A;i)$

$\Rightarrow (\text{isrcv}(k) \Rightarrow \text{R-da}(A;\text{source}(\text{lnk}(k)))(k)?\text{Void} \subseteq \rho T)$

$\Rightarrow \neg \text{write-restricted}(A;i;k)$

$\Rightarrow (\forall y:\text{Id}. y \in \text{dom}(ds) \Rightarrow \neg \text{read-restricted}(A; i; y))$

$\Rightarrow @i \text{ effect } k(v:T) x := f \text{ State}(ds) v \parallel A$