

R-base-recognize-realizes^{0,22}

$\forall i:\text{Id}, ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, x:\text{Id}, k:\text{Kind}, T:\text{Type}, test:(\text{State}(ds) \rightarrow T \rightarrow \mathbb{B}).$
 $\neg x \in \text{dom}(ds)$
 $\Rightarrow (\text{isrcv}(k) \Rightarrow i = \text{destination}(\text{lnk}(k)))$
 $\Rightarrow \text{Normal}(T)$
 $\Rightarrow \text{Normal}(ds)$
 $\Rightarrow \text{R-base-recognize}(i; ds; x; k; T; test)$
 $\models es.\text{vartype}(i; x) \subseteq \rho \mathbb{B} \ \& \ \text{state}@i \subseteq \rho \text{State}(ds) \ \& \ \text{kindtype}(i; k) \subseteq \rho T$
 $\ \& \ \forall e@i.$
 $\ \ (x \text{ when } e)$
 $\Leftrightarrow$
 $\ (\exists e':\text{E}. (e' <_{\text{loc}} e) \ \& \ \text{kind}(e') = k \in \text{Kind} \ \& \ test((\text{state when } e'), \text{val}(e')))$