R-base-recognize-realizes[11,40]

$\forall i$:Id, ds:x:Id fp$\rightarrow$ Type, x:Id, k:Knd, T:Type, $test$:(State(ds)$\rightarrow T \rightarrow \mathbb{B}$).
$(\neg(\uparrow x \in \text{dom}(ds)))$
$\Rightarrow ((\uparrow \text{isrcv}(k)) \Rightarrow (i = \text{destination}(\text{lnk}(k))))$
$\Rightarrow \text{Normal}(T)$
$\Rightarrow \text{Normal}(ds)$
$\Rightarrow \text{R-base-recognize}(i;ds;x;k;T;test)$
$\quad \Vdash es.(@i(x{:}\mathbb{B}) \ \& \ (\text{state}@i \subseteq r \ \text{State}(ds)) \ \& \ (\text{kindtype}(i;k) \subseteq r \ T))$
$\qquad c\wedge \ \forall e@i.$
$\qquad\quad (\uparrow(x \text{ when } e))$
$\qquad\quad \Longleftrightarrow (\exists e'{:}\text{E}$
$\qquad\qquad (((e' <\text{loc } e) \ \& \ \text{kind}(e') = k \in \text{Knd})$
$\qquad\qquad c\wedge \ (\uparrow(test((\text{state when } e'),\text{val}(e'))))))$