

## R-base-recognize<sup>0,22</sup>

$\text{R-base-recognize}(i; ds; x; k; T; test)$   
 $\equiv_{\text{def}} (@i \ x \text{ initially false}_2 : \mathbb{B} \oplus @i \text{ only events in } [k] \text{ change } x : \mathbb{B})$   
 $\oplus @i \text{ effect } k(v:T) \ x := \lambda s, v. \text{ if } test(s, v) \rightarrow \text{true}_2 \text{ else } s(x) \text{ fi State}(x : \mathbb{B} \oplus ds) \ v$

*clarification:*

$\text{R-base-recognize}(i; ds; x; k; T; test)$   
 $\equiv_{\text{def}} (@i \ x \text{ initially false}_2 : \mathbb{B} \oplus @i \text{ only events in } k.\text{nil} \text{ change } x : \mathbb{B})$   
 $\oplus @i$   
 $\text{effect } k(v:T)$   
 $x := \lambda s, v. \text{ if } test(s, v) \rightarrow \text{true}_2 \text{ else } s(x) \text{ fi State}(\text{fpf-join}(\text{IdDeq}; x : \mathbb{B}; ds)) \ v$