

## R-discrete<sup>11,40</sup>

R-discrete( $R$ )

```

≡def case  $R$  of
  Rnone => ⊗
  Rplus( $left, right$ )=>  $rec_1, rec_2.rec_1 \oplus rec_2$ 
  Rinit( $loc, T, x, v$ )=>  $\langle loc, x \rangle : \text{case } v \text{ of } \text{inl}(a) => \text{tt} \mid \text{inr}(a) => \text{ff}$ 
  Rframe( $loc, T, x, L$ )=> ⊗
  Rsframe( $lnk, tag, L$ )=> ⊗
  Reffect( $loc, ds, knd, T, x, f$ )=>  $\langle loc, x \rangle : \text{case } f \text{ of } \text{inl}(a) => \text{tt} \mid \text{inr}(a) => \text{ff}$ 
  Rsends( $ds, knd, T, l, dt, g$ )=> ⊗
  Rpre( $loc, ds, a, T, P$ )=> ⊗
  Rkframe( $loc, k, L$ )=> ⊗
  Rksframe( $loc, k, L$ )=> ⊗
  Rrframe( $loc, x, L$ )=> ⊗

```

*clarification:*

R-discrete( $R$ )

```

≡def case  $R$  of
  Rnone => ⊗
  Rplus( $left, right$ )=>  $rec_1, rec_2.\text{fpf-join}(\text{product-deq}(\text{Id}; \text{Id}; \text{IdDeq}; \text{IdDeq}); rec_1; rec_2)$ 
  Rinit( $loc, T, x, v$ )=>  $\langle loc, x \rangle : \text{case } v \text{ of } \text{inl}(a) => \text{tt} \mid \text{inr}(a) => \text{ff}$ 
  Rframe( $loc, T, x, L$ )=> ⊗
  Rsframe( $lnk, tag, L$ )=> ⊗
  Reffect( $loc, ds, knd, T, x, f$ )=>  $\langle loc, x \rangle : \text{case } f \text{ of } \text{inl}(a) => \text{tt} \mid \text{inr}(a) => \text{ff}$ 
  Rsends( $ds, knd, T, l, dt, g$ )=> ⊗
  Rpre( $loc, ds, a, T, P$ )=> ⊗
  Rkframe( $loc, k, L$ )=> ⊗
  Rksframe( $loc, k, L$ )=> ⊗
  Rrframe( $loc, x, L$ )=> ⊗

```