

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

```
R-discrete_compat(A; B)
≡def ifReffect?(A)
  then ifReffect?(B)
    then (Reffect-x(A) = Reffect-x(B))
      ⇒ (Reffect-discrete(A) = Reffect-discrete(B))
    ifRinit?(B)
      then (Reffect-x(A) = Rinit-x(B))
        ⇒ (Reffect-discrete(A) = Rinit-discrete(B))
      else True
    fi
  ifRinit?(A)
    then ifReffect?(B)
      then (Rinit-x(A) = Reffect-x(B))
        ⇒ (Rinit-discrete(A) = Reffect-discrete(B))
      ifRinit?(B)
        then (Rinit-x(A) = Rinit-x(B)) ⇒ (Rinit-discrete(A) = Rinit-discrete(B))
      else True
    fi
  else True
fi
```

*clarification:*

```
R-discrete_compat(A; B)
≡def ifReffect?(A)
  then ifReffect?(B)
    then (Reffect-x(A) = Reffect-x(B) ∈ Id)
      ⇒ (Reffect-discrete(A) = Reffect-discrete(B) ∈ ℔)
    ifRinit?(B)
      then (Reffect-x(A) = Rinit-x(B) ∈ Id)
        ⇒ (Reffect-discrete(A) = Rinit-discrete(B) ∈ ℔)
      else True
    fi
  ifRinit?(A)
    then ifReffect?(B)
      then (Rinit-x(A) = Reffect-x(B) ∈ Id)
        ⇒ (Rinit-discrete(A) = Reffect-discrete(B) ∈ ℔)
      ifRinit?(B)
        then (Rinit-x(A) = Rinit-x(B) ∈ Id)
          ⇒ (Rinit-discrete(A) = Rinit-discrete(B) ∈ ℔)
        else True
      fi
    else True
  fi
```

```
else True
fi
```