

R-frame-compat^{0,22}

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R-frame-compat(A;B)
≡def if Reflect?(A)→
  if Rframe?(B)→ Rframe-x(B) = Reflect-x(A) ⇒ (Reflect-knd(A) ∈ Rframe-L(B))
  ; Riframe?(B)→ Riframe-k(B) = Reflect-knd(A) ⇒ (Reflect-x(A) ∈ Riframe-L(B))
  ; Rrframe?(B)→
    Rrframe-x(B) ∈ dom(Reflect-ds(A)) ⇒ (Reflect-knd(A) ∈ Rrframe-L(B))
  else True fi
; Rsend?(A)→
  if Riframe?(B)→
    Riframe-lnk(B) = Rsend-l(A)
    ⇒ (Riframe-tag(B) ∈ map(λp.1of(p);Rsend-g(A)))
    ⇒ (Rsend-knd(A) ∈ Riframe-L(B))
  ; Rbframe?(B)→ Rbframe-k(B) = Rsend-knd(A) ⇒ (Rsend-l(A) ∈ Rbframe-L(B))
  ; Rrframe?(B)→ Rrframe-x(B) ∈ dom(Rsend-ds(A)) ⇒ (Rsend-knd(A) ∈ Rrframe-L(B))
  else True fi
; Rpre?(A)→
  if Rrframe?(B)→ Rrframe-x(B) ∈ dom(Rpre-ds(A)) ⇒ (locl(Rpre-a(A)) ∈ Rrframe-L(B))
  else True fi
else True fi

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clarification:

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R-frame-compat(A;B)
≡def if Reflect?(A)→
  if Rframe?(B)→
    Rframe-x(B) = Reflect-x(A) ∈ Id ⇒ (Reflect-knd(A) ∈ Rframe-L(B) ∈ Knd)
  ; Riframe?(B)→
    Riframe-k(B) = Reflect-knd(A) ∈ Knd ⇒ (Reflect-x(A) ∈ Riframe-L(B) ∈ Id)
  ; Rrframe?(B)→
    fpf-dom(IdDeq; Rrframe-x(B); Reflect-ds(A))
    ⇒ (Reflect-knd(A) ∈ Rrframe-L(B) ∈ Knd)
  else True fi
; Rsend?(A)→
  if Riframe?(B)→
    Riframe-lnk(B) = Rsend-l(A) ∈ IdLnk
    ⇒ (Riframe-tag(B) ∈ map(λp.1of(p);Rsend-g(A)) ∈ Id)
    ⇒ (Rsend-knd(A) ∈ Riframe-L(B) ∈ Knd)
  ; Rbframe?(B)→
    Rbframe-k(B) = Rsend-knd(A) ∈ Knd ⇒ (Rsend-l(A) ∈ Rbframe-L(B) ∈ IdLnk)
  ; Rrframe?(B)→
    fpf-dom(IdDeq; Rrframe-x(B); Rsend-ds(A))
    ⇒ (Rsend-knd(A) ∈ Rrframe-L(B) ∈ Knd)

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else True fi
; Rpre?(A)→
  if Rrframe?(B)→
    fpf-dom(IdDeq; Rrframe-x(B); Rpre-ds(A))
    ⇒ (locl(Rpre-a(A)) ∈ Rrframe-L(B) ∈ Knd)
  else True fi
else True fi
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