

interface-union^{11,40}

```
interface-union(X;Y)
≡def <fpf-domain(X) @ fpf-domain(Y)
, λik,s,v. if ik ∈ dom(X)
  then if ik ∈ dom(Y)
    then case X(ik)(s,v)
      of inl(x) => inl inl x
      | inr(x) => case Y(ik)(s,v)
        of inl(x) => inl (inr x )
        | inr(x) => inr x
    else case X(ik)(s,v) of inl(x) => inl inl x | inr(x) => inr x
  fi
else case Y(ik)(s,v) of inl(x) => inl (inr x ) | inr(x) => inr x
fi
>
```

clarification:

```
interface-union(X;Y)
≡def <fpf-domain(X) @ fpf-domain(Y)
, λik,s,v. if fpf-dom(locknd-deq(); ik; X)
  then if fpf-dom(locknd-deq(); ik; Y)
    then case Xlocknd-deq()(ik)(s,v)
      of inl(x) => inl inl x
      | inr(x) => case Ylocknd-deq()(ik)(s,v)
        of inl(x) => inl (inr x )
        | inr(x) => inr x
    else case Xlocknd-deq()(ik)(s,v) of inl(x) => inl inl x | inr(x) => inr x
  fi
else case Ylocknd-deq()(ik)(s,v) of inl(x) => inl (inr x ) | inr(x) => inr x
fi
>
```