

```
 $\Gamma /: \Gamma[is1_, os1_, cs1_, \omega1_, \lambda1_] \times \Gamma[is2_, os2_, cs2_, \omega2_, \lambda2_] :=$   
 $\Gamma[is1 \cup is2, os1 \cup os2, \text{Join}[cs1, cs2], \omega1 \omega2, \lambda1 + \lambda2]$   
 $\Gamma /: \Gamma[is1_, os1_, \_, \omega1_, \lambda1_] \equiv \Gamma[is2_, os2_, \_, \omega2_, \lambda2_] :=$   
 $\text{TrueQ}[(\text{Sort}@is1 === \text{Sort}@is2) \wedge (\text{Sort}@os1 === \text{Sort}@os2) \wedge$   
 $\text{Simplify}[\omega1 = \omega2] \wedge \text{CF}@lambda1 = \text{CF}@lambda2]$ 
```