

```

 $\mathbb{E}_{d1 \rightarrow r1\_} [\mathcal{E}1s\_ ] // \mathbb{E}_{d2 \rightarrow r2\_} [\mathcal{E}2s\_ ] := \text{Module} [ \{ is = r1 \cap d2, lvs, llvs \},$ 
```

```

  lvs = Cases [ {  $\mathcal{E}1s$  }, (x | y) __ [i_] /; MemberQ[is, i],  $\infty$  ]  $\cup$ 
    Cases [ {  $\mathcal{E}2s$  }, ( $\xi$  |  $\eta$ ) __ [i_] /; MemberQ[is, i],  $\infty$  ]*;
  llvs = Map [ $, lvs, {2} ];
   $\mathbb{E}_{(d1 \cup \text{Complement}[d2, is]) \rightarrow (r2 \cup \text{Complement}[r1, is])} @@ ( \text{Zip}_{llvs \cup llvs^*} [ \{ (llvs)^* . (llvs), \text{Times} [$ 
     $\mathbb{E} [\mathcal{E}1s] /. \text{Thread} [lvs \rightarrow llvs],$ 
     $\mathbb{E} [\mathcal{E}2s] /. \text{Thread} [lvs^* \rightarrow llvs^*]$ 
    ] } ] )
]

```