

$$m \parallel n := \begin{cases} m n & \mathbf{if} \ m :: \alpha \rightarrow \beta, \ n :: \alpha \\ \lambda k. m (\lambda f. n (\lambda x. k (f \parallel x))) & \mathbf{otherwise} \end{cases}$$

$$m \parallel\!\!\! \parallel n := \begin{cases} n m & \mathbf{if} \ n :: \alpha \rightarrow \beta, \ m :: \alpha \\ \lambda k. m (\lambda x. n (\lambda f. k (x \parallel\!\!\! \parallel f))) & \mathbf{otherwise} \end{cases}$$

$$m \parallel n := \begin{cases} \lambda x. m x \wedge n x & \mathbf{if} \ m :: \alpha \rightarrow \beta, \ n :: \alpha \rightarrow \beta \\ \lambda k. m (\lambda x. n (\lambda f. k (f \parallel x))) & \mathbf{otherwise} \end{cases}$$