

$$\begin{array}{ccc}
 & u_A \otimes (I \otimes t_A) & \\
 \alpha_{u_A, I, t_A} \swarrow & & \searrow 1_{u_A} \otimes \lambda_{t_A} \\
 (u_A \otimes I) \otimes t_A & \xrightarrow{\rho_{u_A} \otimes 1_{t_A}} & u_A \otimes t_A
 \end{array}$$