

$$\begin{array}{c}
\dots \quad (partmod \quad \text{company} \quad \text{located in CA}) \quad \dots \\
\lambda f g x. \exists z. \quad \lambda x. \text{compay}(x_e) \quad \frac{}{} \\
\frac{f(x) \wedge g(x) \wedge \quad \lambda g z. \exists x. \text{located}(z_e) \wedge \text{CA}(x_a) \wedge \text{arg}_{in}(z_e, x_a)}{\text{arg}_2(z_e, x_a)} \\
\hline
\lambda x. \exists y z. \text{company}(x_a) \wedge \text{located}(z_e) \wedge \text{CA}(y_a) \wedge \text{arg}_2(z_e, x_a) \wedge \text{arg}_{in}(z_e, y_a)
\end{array}$$