Grammar

(Types?)	$y ::= x$
(Base types)	$A ::= \mathbb{1} \mid A_1 \oplus ... \oplus A_n \mid A_1 \otimes ... \otimes A_n \mid \mu X.A \mid X$
(Values)	$v ::= x \mid (v_1, ..., v_n) \mid c\ v$
(Patterns)	$p ::= x \mid (p_1, ..., p_n)$
(Expressions)	$e ::= v \mid \texttt{let}\ p_1 = \omega\ p_2\ \texttt{in}\ e$
(Isos)	$\omega ::= \{v_1 \leftrightarrow e_1 \mid ... \mid v_n \leftrightarrow e_n\} \mid \texttt{fix}\ \phi.\omega \mid \lambda\psi.\omega \mid \phi \mid \omega_1\ \omega_2$
(Terms)	$t ::= x \mid (t_1, ..., t_n) \mid c\ t \mid \omega\ t \mid \texttt{let}\ p = t_1\ \texttt{in}\ t_2$

Typing Rules - Terms

$$\frac{}{\Psi; \emptyset \vdash ()\ :\ \mathbb{1}} \qquad \frac{}{\Psi; x : A \vdash x : A} \qquad \frac{\Psi; \Delta_1 \vdash t_1 : A_1 \quad ... \quad \Psi; \Delta_n \vdash t_n : A_n}{\Psi; \Delta \vdash (t_1, ..., t_n) : A_1 \otimes ... \otimes A_n}$$

$$\frac{\Psi \vdash_\omega \omega : A \leftrightarrow B \quad \Psi; \Delta \vdash t : A}{\Psi; \Delta \vdash \omega\ t : B}$$

$$\frac{\Psi; \Delta_1 \vdash t_1 : A_1 \otimes ... \otimes A_n \quad \Psi; \Delta_2 \vdash x_1 : A_1, ..., x_n : A_n \vdash t_2 : B}{\Psi; \Delta_1, \Delta_2 \vdash \texttt{let}\ (x_1, .., x_n) = t_1\ \texttt{in}\ t_2 : B}$$

Typing Rules - Isos