

# Boundary Types

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$$\begin{array}{c} \frac{\cdot}{\text{int} \vdash \cdot \text{Unit}} \quad \frac{\cdot}{\text{bool} \vdash \cdot \text{Unit}} \quad \frac{A \vdash \cdot \kappa_A \quad B \vdash \cdot \kappa_B}{A \times B \vdash \cdot \kappa_A \times \kappa_B} \quad \frac{A \vdash \cdot \kappa_A \quad B \vdash \cdot \kappa_B}{A + B \vdash \cdot \kappa_A \times \kappa_B} \\[10pt] \frac{A \vdash \cdot \kappa_A \quad B \vdash \cdot \kappa_B}{A \rightarrow B \vdash \cdot \kappa_A \rightarrow \text{Type} \times \kappa_B} \end{array}$$