$$\text{e} \underline{\quad} \text{s} \xrightarrow{\text{read}} \otimes$$

atom read arena

$$\text{s} \underline{\quad} \text{e} \xrightarrow{\text{write}} \otimes$$

atom write arena

constant choice arena

equality test arena

arena for X + Y

arena for X & Y

Sys $\underset{\phantom{read}}{\overset{\text{read}}{\rule{4em}{0.4pt}}}$ Env $\underset{\text{acknowledge}}{\rule{10em}{0.4pt}}$ Sys $\overset{\text{read}}{\rule{4em}{0.4pt}}$ Env $\begin{array}{c} = \\ \neq \end{array}$

$$\otimes$$

$$+ \qquad \&$$

$$+ \qquad 1 \qquad + \qquad \mathbb{A}$$

$$\mathbb{A} \qquad 1 \qquad \mathbb{A} \qquad \mathbb{A}$$