

## 1 Language Definitions

$o \quad := \quad \text{true} \mid \text{false}$

$x \quad \in \quad \text{variable identifiers}$

$a \quad \in \quad \text{heap addresses}$

$e \quad := \quad x \mid o \mid e ; e \mid \text{let } x := e \mid \text{if } e \text{ } e \text{ } e$   
 $\mid \lambda x_0 \dots x_n e \mid x \ e_0 \dots e_n$

$f \quad := \quad x_{name} \ x_0 \dots x_n \ e$

$\sigma \quad := \quad x \mapsto a$

$\mu \quad := \quad a \mapsto o$

$\nu \quad := \quad x \mapsto f$