

1 Language Definitions

$x \in$ reference identifiers

$a \in$ heap identifiers

$\eta \in$ namespace identifiers

$o := \text{true} \mid \text{false} \mid \langle \eta, \sigma \rangle$

$e := x \mid o \mid \text{let } x := e_0 \text{ in } e_1 \mid \text{if } e \text{ e } e \mid$
 $\eta \ e_0 \dots e_n \mid x \ e_0 \dots e_n$

$\sigma := x \mapsto a$

$\mu := a \mapsto o$

$\rho := \eta \mapsto \nu$

$\nu := \rho \mid \langle \rho, x_0 \dots x_n, e \rangle \mid \langle \rho_i, \rho_m, x_0 \dots x_n \rangle$