

LAMBDA

MODULE LAMBDA

SYNTAX $Val ::= Id$
 | $\lambda Id.Exp$ [binder]

SYNTAX $Exp ::= Val$
 | $Exp\ Exp$ [strict]
 | (Exp) [bracket]

SYNTAX $KResult ::= Val$

RULE
$$\frac{(\lambda X.E)\ V}{E[V / X]}$$

SYNTAX $Val ::= Int$
 | $Bool$

SYNTAX $Exp ::= Exp * Exp$ [strict]
 | Exp / Exp [strict]
 | $Exp + Exp$ [strict]
 | $Exp <= Exp$ [strict]

RULE
$$\frac{I1 * I2}{I1 *_{Int} I2}$$

RULE
$$\frac{I1 / I2}{I1 \div_{Int} I2}$$

RULE
$$\frac{I1 + I2}{I1 +_{Int} I2}$$

RULE
$$\frac{I1 <= I2}{I1 \leq_{Int} I2}$$

END MODULE