

Design document for PPL Lab-4

Syntax:-

$t ::$

...

if t then t else t

$T ::$

...

IF ($T * T$)

Semantics:-

Typing Rules:

...

$t1 : \text{Bool} \quad t2 : T1 \quad t3 : T2$

if $t1$ then $t2$ else $t3 : \text{IF} (T1 * T2)$

Evaluation Rules:

...