

①  $(\text{fun } (f \ x \ y) \ e)$     ②  $(\text{fun } (f \ (x:T_x)(y:T_y)) \ e)$

$[x:A][y:A]e : T$      $(\text{fun } (f \ (x:\text{Bool})(y:\text{Num}))$

Billions of  
LOC un-annotated  
These don't TC

$(f \ 3 \ 4)$   
can only compile with  
all tc turned off

$f\_note$ :  
full un-ann func

$f$ : check + don't + compile  
 $\text{mov rdi, f_id - f}$   
 ... more args ...  
 $\text{call compile-me}$   
 $\text{jmp rax}$

$fn$  compile-me ( $f\_id$ ,  $int$ ,  $x$ ,  $164$ ,  $y$ ,  $164$ )  
 $\text{let } (def, bi) = \text{get\_fun}(f\_id)$   
 $\text{let env} = \text{calc\_tenv}(def, x, y)$   
 $\text{let tdf} = \text{tc-def}(def, env)$   
 $\text{let fastf} = \text{compile-def}(def)$   
 $\text{init\_to\_asm}(\text{GLOBAL\_OP}, \text{fastf})$

return ... label  $f\_fast$