

Long-distance interaction between caller and callee

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$t ::=$	term
v	value
x	variable
$t \ t$	application
$v ::=$	value
c	constant
$\lambda x : \tau . t$	abstraction
$\tau ::=$	type
κ	type of constants
$\tau \rightarrow \tau$	arrow type
$\Gamma ::=$	context
\emptyset	empty context
$\Gamma, x : \tau$	variable binding

Figure 1: Syntax

$$\boxed{\Gamma \vdash t : \tau}$$

$$\frac{}{\Gamma \vdash c : \kappa} \text{ (T-CONSTANT)}$$

$$\frac{x : \tau \in \Gamma}{\Gamma \vdash x : \tau} \text{ (T-VARIABLE)}$$

$$\frac{\Gamma, x : \tau_1 \vdash t : \tau_2}{\Gamma \vdash \lambda x : \tau_1 . t : \tau_1 \rightarrow \tau_2} \text{ (T-ABSTRACTION)}$$

$$\frac{\Gamma \vdash t_1 : \tau_1 \quad \Gamma \vdash t_2 : \tau_1 \rightarrow \tau_2}{\Gamma \vdash t_2 \ t_1 : \tau_2} \text{ (T-APPLICATION)}$$

Figure 2: Typing rules

