

$var, x$	term variable		
$term, t$	$::=$		term
	$x$		variable
	$\lambda x. t$	bind $x$ in $t$	lambda
	$t t'$		app
	$(t)$	S	
	$\{t/x\}t'$	M	
$val, v$	$::=$		value
	$\lambda x. t$		lambda
$terminals$	$::=$		
	$\lambda$		
	$\longrightarrow$		
$formula$	$::=$		
	$judgement$		
$Jop$	$::=$		
	$t_1 \longrightarrow t_2$		$t_1$ reduces to $t_2$
$judgement$	$::=$		
	$Jop$		
$user\_syntax$	$::=$		
	$var$		
	$term$		
	$val$		
	$terminals$		

$\boxed{t_1 \longrightarrow t_2}$   $t_1$  reduces to  $t_2$

$$\begin{array}{c}
\overline{(\lambda x. t_1) v_2 \longrightarrow \{v_2/x\}t_1} \quad \text{AX\_APP} \\
\\
\frac{t_1 \longrightarrow t'_1}{t_1 t \longrightarrow t'_1 t} \quad \text{CTX\_APP\_FUN} \\
\\
\frac{t_1 \longrightarrow t'_1}{v t_1 \longrightarrow v t'_1} \quad \text{CTX\_APP\_ARG}
\end{array}$$