

$atexp$	$:=$	con	constant(int, bool), like 1 , true
		vid	variable identifier
		(exp)	parenthesized
exp	$:=$	$atexp$	atomic
		$exp \ atexp$	application
		$exp_1 \ binop \ exp_2$	infix application
		$\mathbf{fn} (\langle vid : typ \rangle^{(\cdot)}) : typ_{\text{ret}} \Rightarrow exp$	anonymous function
		$\mathbf{if} \ exp_b \ \mathbf{then} \ exp_t \ \mathbf{else} \ exp_f$	if expression
dec	$:=$	$\mathbf{val} \ vid : typ = exp$	value bind
$attyp$	$:=$	tid	type variable
		(typ)	parenthesized
typ	$:=$	$attyp$	atomic
		$typ \ \langle * \ typ \rangle^+$	tuple type
		$typ_1 \ \rightarrow \ typ_2$	arrow type

Initialize the typing context with **int**, **bool**, **unit** and such.