

Hazel PHI: 10-modules

how to read

800000 kinds 800080 signatures
008000 types (constructors) 008080 modules
000080 terms

syntax

kind	knd	$::=$	Type	kind of types
			S (τ)	singleton kind
			KHole	kind hole
			$\Pi_{\alpha::knd_1}.knd_2$	dependent function kind
			$\Sigma_{\alpha::knd_1}.knd_2$	dependent product kind
base type	bse	$::=$	Int	
			Float	
			Bool	
HTyp BinOp	\oplus	$::=$	\times	
			$+$	
			\rightarrow	
internal HTyp	τ	$::=$	bse	
			$\lambda\alpha :: knd.\tau$	
			$\tau_1 \tau_2$	
			$\tau_1 \oplus \tau_2$	
			$\langle \tau_1, \tau_2 \rangle$	
			$\pi_1 \tau$	
			$\pi_2 \tau$	
			$\{lab_1 \hookrightarrow \tau_1, \dots lab_n \hookrightarrow \tau_n\}$	
			$mod.lab$	
			$\langle \rangle$	
			$\langle \tau \rangle$	
module	mod	$::=$	$[sbn]$	
			$\lambda\mu :: sig.mod$	
			$mod_1 mod_2$	
			$mod.lab$	
signature	sig	$::=$		
			$\Pi_{\mu::sig_1}.sig_2$	