12 peljava tripov

Problem, ki ga resujemo: (izpeljava tipa)

Če imam izraze, ali obstaja A, de voja ØHEA

Enosta unejši problem: (povojnje tipa)

Če imam izraze in tipA, ali volja ØHEA.

Mi bomo resevali prvega s Hindley-Milnesjevim algoritmom.

Ideja: ko moramo uganit: trip v izpeljavi, ustvarimo spremenljivko x, B,--Če se marajo tripi ujemati, dodami enačbo

f: x+ f: x	fix +10 int	X: rxx xxxx xxxxxind
f: x + f 10: B		X:8 + x>3:8
Ø - 2f.	f 10: α→β	Ø +7×.×>3:≪
Ø + (λf.f 10) (λx.x>3):β		
$\alpha = int \rightarrow \beta$ $\alpha = \gamma \rightarrow \delta$ $\gamma = int$ $\delta = bool$	$\alpha = int \rightarrow 0$ $\alpha = int \rightarrow 0$ $\gamma = int$ $\delta = bool$	my intabool = intab
	$\alpha = nt \rightarrow bo$ $nt = mt$ $boal = fo$ $y = mt$ $\delta = boal$	of $\alpha = int \rightarrow bool$ $\beta = bool$ $\delta = bool$

A :: = X/...

THE: ALE ... v kontek str T za e izpeljámo tip A ob amejitush E.

$$\frac{\Gamma + e_1 \cdot A_1 \mid \mathcal{E}_1 \qquad \Gamma + e_2 \cdot A_2 \mid \mathcal{E}_2}{\Gamma + e_1 + e_2 \cdot \inf \mid \mathcal{E}_1 \mid \mathcal{E}_2 \mid A_1 = \inf \mid A_2 = \inf} \qquad P^{\text{od.} \neq \alpha} - \mu$$

$$\frac{\Gamma, x: \alpha + e: B \mid \mathcal{E} \quad \alpha \text{ sve} \bar{z}}{\Gamma + \lambda x \cdot e: \alpha \rightarrow B \mid \mathcal{E}} \frac{\Gamma + e_1: A_1 \mid \mathcal{E}_1 \quad \Gamma + e_2: A_2 \mid \mathcal{E}_2 \quad \alpha \text{ sve} \bar{z}}{\Gamma + e_1 e_2: \alpha \mid \mathcal{E}_1, \mathcal{E}_2, A_1 = A_2 \rightarrow \alpha}$$

Primer: $\lambda f. \lambda x.$ if x then $f \times else f(f \times)$