initial system:

polarize:

after closure conversion:

$$\frac{ \Vdash \Gamma}{\Gamma \vdash \mathbb{U} : \mathbb{U}} \text{ (univ)} \quad \frac{\Gamma \vdash P : \mathbb{U}}{\Vdash \Gamma, x : P} \text{ (ext)} \quad \frac{\Vdash \Gamma, x : P}{\Gamma, x : P \vdash x : P} \text{ (var)}$$

$$\frac{\Vdash \Gamma}{\Gamma \vdash \mathbb{E}_k : \mathbb{U}} \text{ (E)} \quad \frac{\Vdash \Gamma}{\Gamma \vdash C : \mathbb{E}_k} \text{ (E_i)} \quad \frac{\Gamma \vdash P : \mathbb{E}_k}{\Gamma \vdash \text{let } x : = e \text{ in } (c \Rightarrow e_c) : N\{x : = e\}} \text{ (E_e)}$$

$$\frac{\Gamma \vdash P_0 : \mathbb{U}}{\Gamma \vdash \mathbb{U} \text{ (II)}} \quad \cdots \quad \Gamma, x_0 : P_0, \dots, x_{n-1} : P_{n-1} \vdash N : \mathbb{U}}{\Gamma \vdash \text{thunk}} \text{ (A(x_0 : P_0, \dots, x_{n-1} : P_{n-1}) . N : \mathbb{U}}} \text{ (II)}$$

$$\frac{x_0 : P_0, \dots, x_{n-1} : P_{n-1} \vdash e : N}{\Gamma \vdash \text{thunk}} \text{ (A(x_0 : P_0, \dots, x_{n-1} : P_{n-1}) . N : } \text{ (II_i)}$$

$$\frac{\Gamma \vdash e : \mathbb{I} \Pi(x_0 : P_0, \dots, x_{n-1} : P_{n-1}) . N \quad \Gamma \vdash e_0 : P_0 \quad \cdots \quad \Gamma \vdash e_{n-1} : P_{n-1} \{x_k := e_k\}}{\Gamma \vdash (\text{force } e) \otimes (e_0, \dots, e_{n-1}) : N\{x_k := e_k\}} \text{ (II_e)}$$

$$\frac{\Gamma \vdash P_0 : \mathbb{U}}{\Gamma \vdash \Sigma (x_0 : P_0, \dots, x_{n-1} : P_{n-1}) . P_n : \mathbb{U}} \text{ (S)}$$

$$\frac{\Gamma \vdash e_0 : P_0 \quad \cdots \quad \Gamma, x_0 : P_0, \dots, x_{n-1} : P_{n-1} \vdash P_n : \mathbb{U}}{\Gamma \vdash (e_1, \dots, e_n) : \Sigma (x_1 : P_0, \dots, x_{n-1} : P_{n-1}) . P_n} \text{ (S_i)}$$

$$\frac{\Gamma \vdash e_1 : \Sigma (x_1 : P_0, \dots, x_{n-1} : P_{n-1}) . P_n \quad \Gamma, x_0 : P_0, \dots, x_{n-1} : P_{n-1}) . P_n}{\Gamma \vdash \text{let } (x_0, \dots, x_n) : e_1 \text{ in } e_2 : N\{z := (x_0, \dots, x_n)\}} \text{ ($\Sigma_e$)}$$

$$\frac{\Gamma \vdash P : \mathbb{U}}{\Gamma \vdash \uparrow P : \mathbb{U}} \text{ ($\uparrow$)} \quad \frac{\Gamma \vdash e : P}{\Gamma \vdash \text{return } e : \uparrow P} \text{ ($\uparrow$)} \quad \frac{\Gamma \vdash e_1 : \uparrow P \quad \Gamma, x : P \vdash e_2 : N}{\Gamma \vdash e_1 \triangleright x e_2 : N} \text{ ($\uparrow$e$)}$$