

Elaborating Type Providers

To elaborate

%provide ($x : T$) **with** p

1. Elaborate goal type T to τ . Check that $\tau : \text{Type}$.
2. Elaborate p to π . Check that $\pi : \text{IO}(\text{Provider } \tau)$.
3. Execute π :
 - ▶ If **Provide** y , then result is $x : \tau$; $x = y$.
 - ▶ If **Error** err , then show user err .