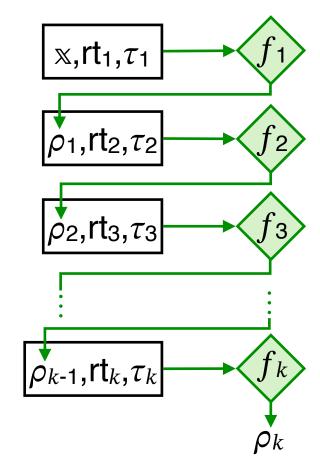


 $\mathcal{V}(x,\pi)$ 

- parse  $\pi$  as  $((\mathsf{rt}_i, Q_i, \boldsymbol{a}_i, \mathsf{pf}_i, \tau_i))_{i \in [k]}$
- derive IOP randomness



check MT proofs

 $\land_{i \in [k]} \mathsf{MT}_i.\mathsf{Check} \xrightarrow{f_{\mathsf{MT}}} (\mathsf{rt}_i, Q_i, \boldsymbol{a}_i, \mathsf{pf}_i)$ 

check IOP decision

$$\mathbf{V}_{\mathsf{IOP}}^{[Q_i,oldsymbol{lpha}_i]_{i\in[k]}}\!(\mathbf{x},\!(
ho_1,\!...,\!
ho_k))$$

 $\pi$