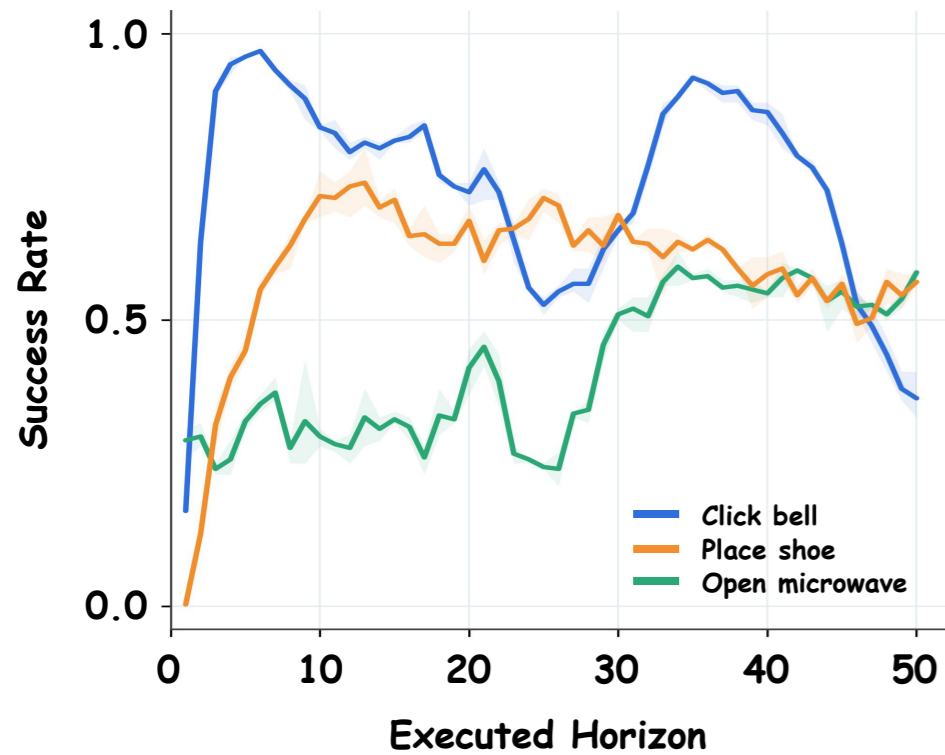
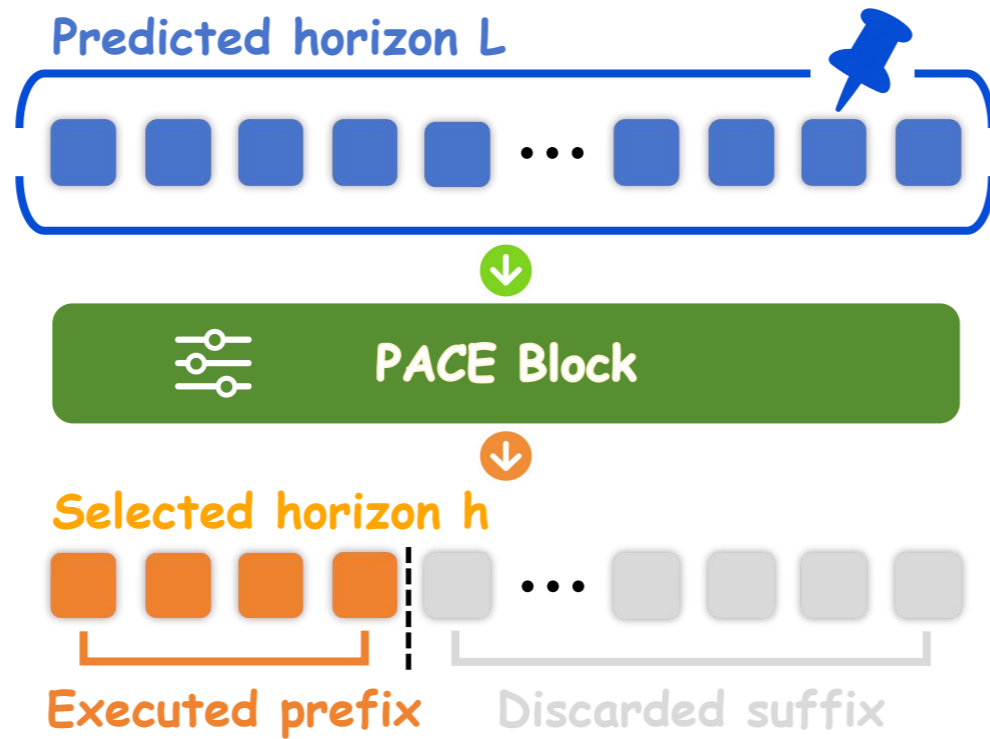


Fixed-horizon limitation

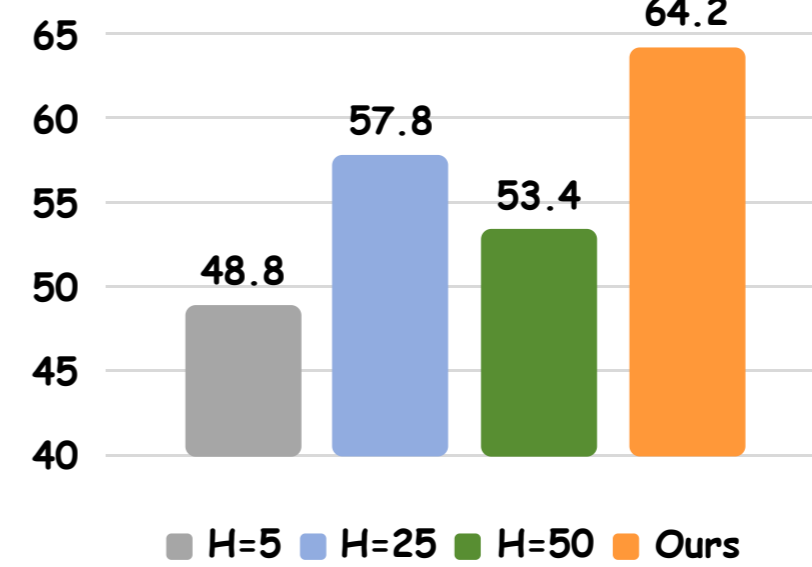


PACE

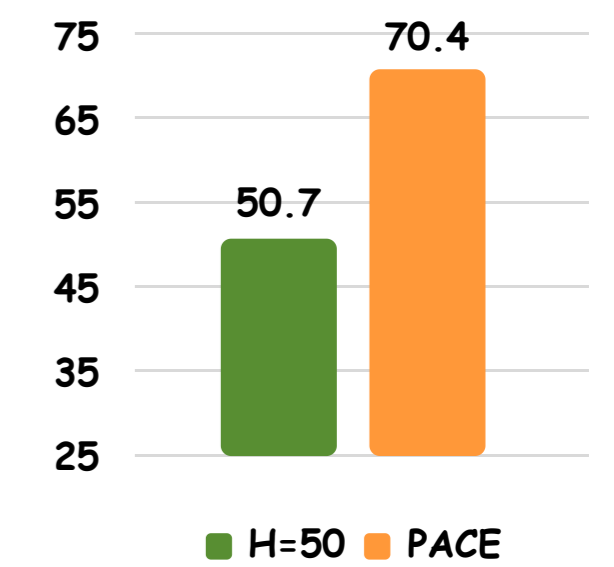


Simulation and real world tasks

Robotwin 2.0
50-task average success rate(%)



Real-Robot
average success rate(%)



Dynamic execution within one rollout

Initial state

1. Coarse approach

2. Pre-grasp alignment

3. Grasp stapler

4. Transfer to platform

5. Placement

Task success



Execution window (H)

35

26

24

19

10

16

35

26

24

19

10

16

Long horizon
for coarse motion

Moderate horizon
for grasping

Moderate horizon
for grasp alignment

Moderate horizon
for transfer

Short horizon
for adjustment

Moderate horizon
for placement