

Figure 1: Performance for best model with most accurate predictions.

State 17 is most inaccurate prediction among all states. For the early prediction error will accumulate and affect the later prediction. In other words, small errors can add up to large ones.

	random policy	model-based policy
ReturnAvg	-170.73	23.25
ReturnAvg ReturnStd	91.32	23.25 22.35

Table 1: ReturnAvg and ReturnStd for random policy and model-based policy.

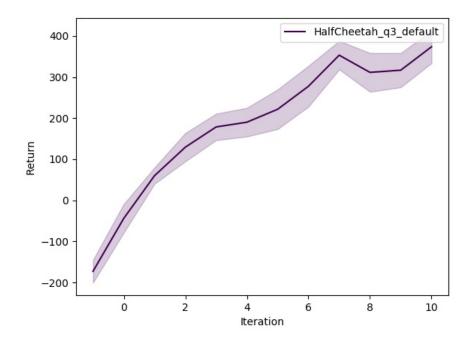


Figure 2: Returns versus iteration when running model-based reinforcement learning.

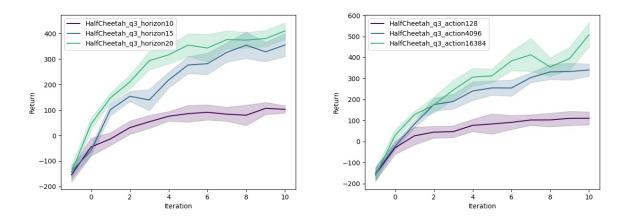


Figure 3: Model performance with different Figure 4: Model performance with differ-MPC horizon. ent number of randomly sampled action sequences.

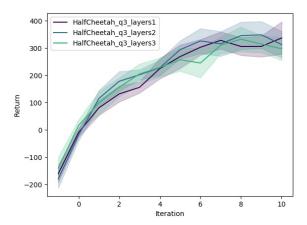


Figure 5: Model performance with different number of neural network layers.