

(两)如 Orlt(更新, 行的策略才更来的,次 Min La, b > : elementuise min next\_Q1, next\_Q2 = self.target\_model.value(next\_obs, next\_action) For TD3: a'= Clip( Vor(5') + noise)  $V_1', V_2' = \mathbb{Q} \phi(S', \alpha')$ y= r+ 2. min < Vi', V='} y,, y = Q & ( s, a ) COSt = MSE(y, y) + MSE(y, y) 如果在前20万step训练中, test分数没有上到1000, train分数没上到 0 和故事 Olp(a+ 1(0,0)amax), - amax, amax) 在价值已数的更新目标止,也增加了批助,使价值还数更 robust

Critic 可以担此 actor 学慢一点, Shc 触肌最低, 到知 DDPG 比下,

self.max action)

target\_Q) + layers.square\_er current 02, target 0)

next\_Q = layers.elementwise\_min(next\_Q1, next\_Q2)

terminal = layers.cast(terminal, dtype='float32') target\_Q = reward + (1.0 - terminal) \* self.gamma \* next\_Q

current\_Q1, current\_Q2 = self.model.value(obs, action)

cost = layers\_square\_error\_cost(current\_Q1,

target\_Q.stop\_gradient = True

cost = layers.reduce\_mean(cost) optimizer - fluid.optimizer.Ada optimizer.minimize(cost)

return cost