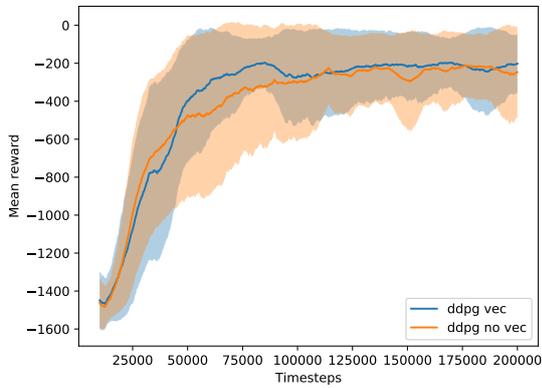


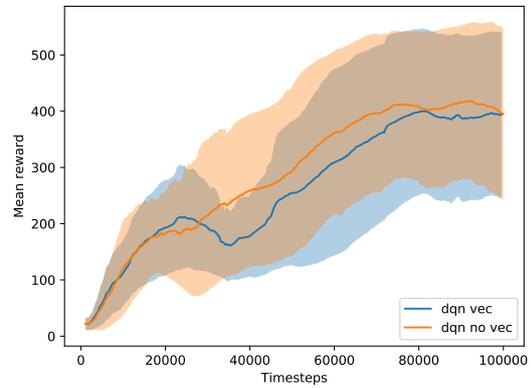
# Vectorizing DQN / DDPQ in Stable Baselines Zoo

Model configuration:

| Name        | Env         | Algo | Vectorize env | Time steps | Hyperparameters          |
|-------------|-------------|------|---------------|------------|--------------------------|
| ddpg vec    | Pendulum-v0 | DDPG | Y             | 1e6        | see hyperparams/ddpg.yml |
| ddpg no vec | Pendulum-v0 | DDPG | N             | 1e6        | see hyperparams/ddpg.yml |
| dqn vec     | CartPole-v1 | DQN  | Y             | 1e5        | see hyperparams/dqn.yml  |
| dqn no vec  | CartPole-v1 | DQN  | N             | 1e5        | see hyperparams/dqn.yml  |

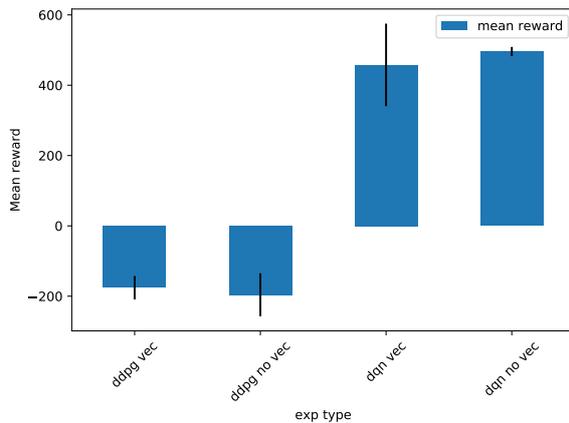


(a) DDPG

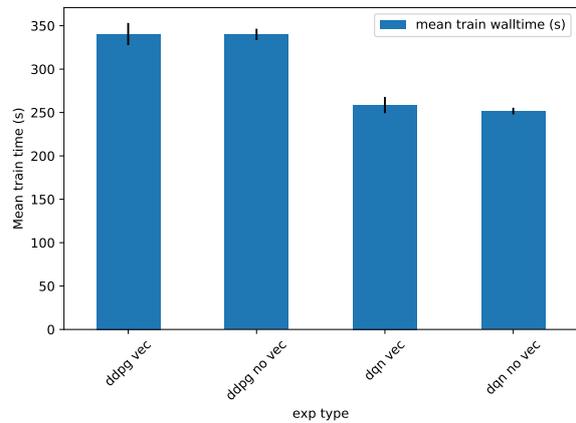


(b) DQN

Figure 1: Average learning curves over 10 different random seeds.



(a) Average reward over 100 test evaluations and 10 seeds.



(b) Average training walltime over 10 seeds.

Vectorizing DQN or DDPG does not seem to affect the training, the average return or the training time significantly.