Continuous control DRL test log

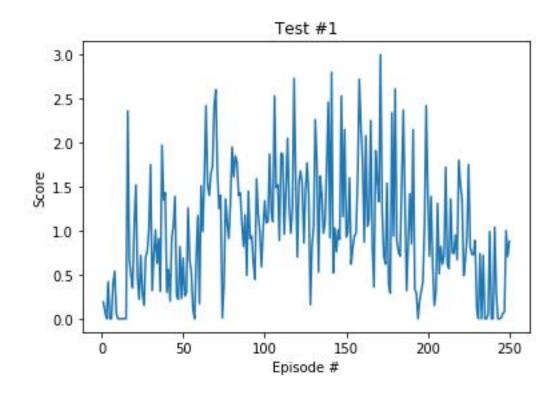
Test #1 (07012019)

Test info:

250 episodes with 1000 steps per episode using DDPG for 1 agent

Parameter:

BUFFER_SIZE = int(1e5)	# replay buffer size
BATCH_SIZE = 128	# minibatch size
GAMMA = 0.99	# discount factor
TAU = 1e-3	# for soft update of target parameters
LR_ACTOR = 1e-4	# learning rate of the actor
LR_CRITIC = 1e-3	# learning rate of the critic
WEIGHT_DECAY = 0	# L2 weight decay



Test #2 (07022019)

Test info:

100 episodes with 1000 steps per episode using DDPG for 1 agent

Parameter:

BUFFER_SIZE = int(1e6) # replay buffer size

BATCH_SIZE = 1000 # minibatch size

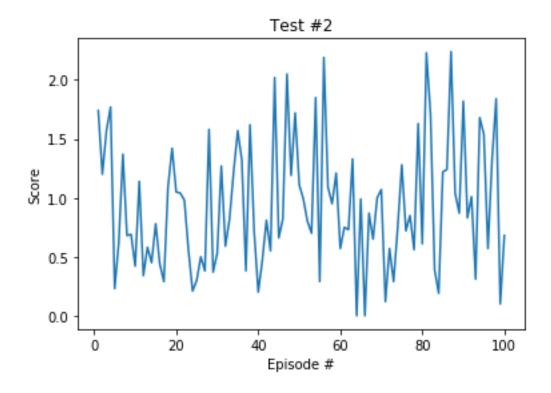
GAMMA = 0.99 # discount factor

TAU = 1e-3 # for soft update of target parameters

LR_ACTOR = 1e-4 # learning rate of the actor

LR_CRITIC = 1e-3 # learning rate of the critic

WEIGHT_DECAY = 0 # L2 weight decay



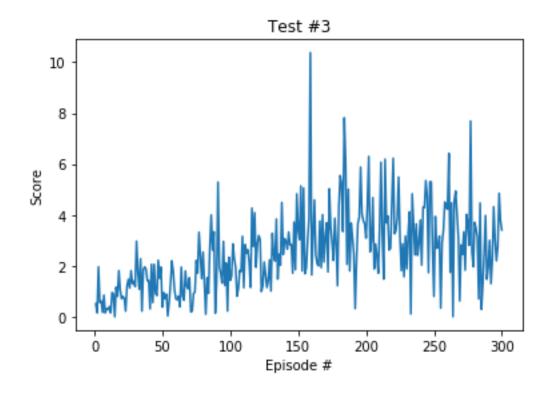
Test #3 (07032019)

Test info:

300 episodes with 1000 steps per episode using DDPG for 1 agent

Parameter:

BUFFER_SIZE = int(1e5)	# replay buffer size
BATCH_SIZE = 20	# minibatch size
GAMMA = 0.99	# discount factor
TAU = 1e-3	# for soft update of target parameters
LR_ACTOR = 1e-4	# learning rate of the actor
LR_CRITIC = 1e-3	# learning rate of the critic
WEIGHT_DECAY = 0	# L2 weight decay



Test #5 (07042019)

Test info:

100 episodes with 1000 steps per episode using DDPG for 20 agents

Parameter:

BUFFER_SIZE = int(1e5) # replay buffer size

BATCH_SIZE = 200 # minibatch size

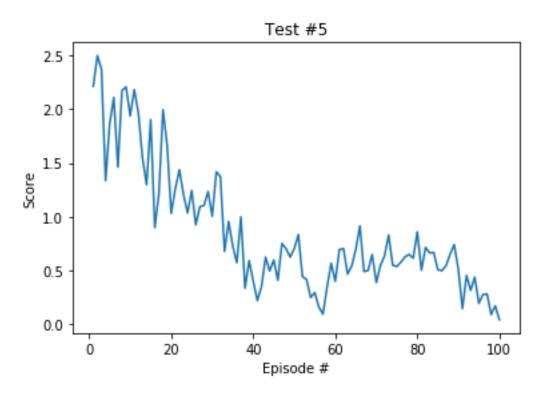
GAMMA = 0.99 # discount factor

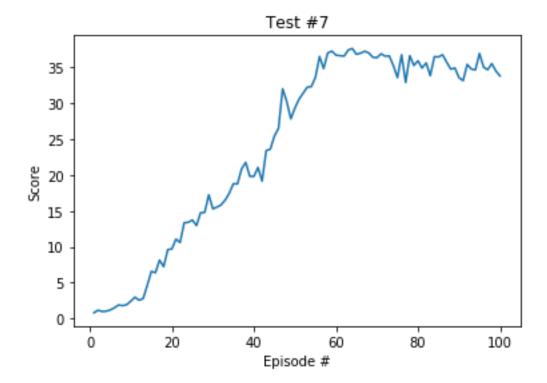
TAU = 1e-3 # for soft update of target parameters

LR_ACTOR = 1e-4 # learning rate of the actor

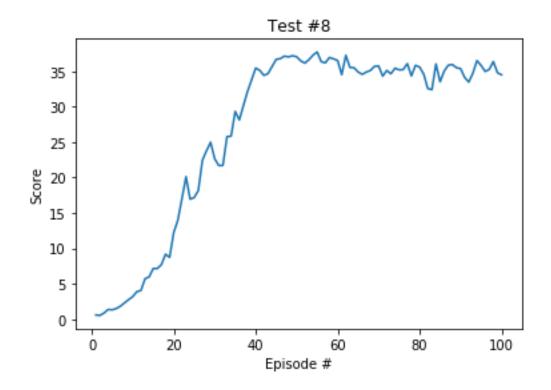
LR_CRITIC = 1e-3 # learning rate of the critic

WEIGHT_DECAY = 0 # L2 weight decay





Test #8



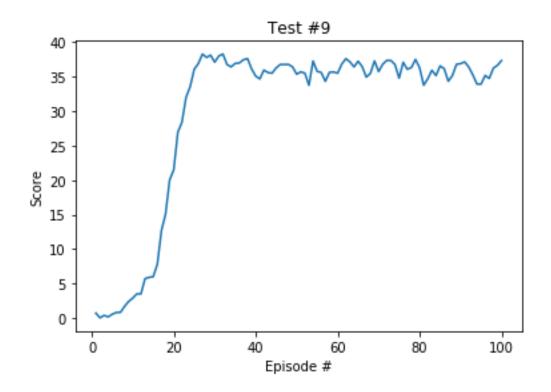
Test #9 (07042019)

Test info:

100 episodes with 1000 steps per episode using DDPG for 20 agents, learning once every 1000 steps.

Parameter:

BUFFER_SIZE = int(1e5)	# replay buffer size
BATCH_SIZE = 1000	# minibatch size
GAMMA = 0.99	# discount factor
TAU = 1e-3	# for soft update of target parameters
LR_ACTOR = 1e-4	# learning rate of the actor
LR_CRITIC = 1e-3	# learning rate of the critic
WEIGHT_DECAY = 0	# L2 weight decay



Test #10 (07052019)

Test info:

100 episodes with 1000 steps per episode using DDPG for 20 agents learning 3 times every 1000 steps.

Parameter:

BUFFER_SIZE = int(1e5)	# replay buffer size
BATCH_SIZE = 1000	# minibatch size
GAMMA = 0.99	# discount factor
TAU = 1e-3	# for soft update of target parameters
LR_ACTOR = 1e-4	# learning rate of the actor
LR_CRITIC = 1e-3	# learning rate of the critic
WEIGHT_DECAY = 0	# L2 weight decay

