Lunar Lander Continuous OpenAI Environment SpinningUp

Installing SpinningUp for Mac OS X

1. Download and install Anaconda.
2. Create an environment organizing SpinningUp Packages. From the Terminal run:

conda create –n spinningup python=3.6

3. Activate the environment. From the Terminal run:

source activate spinningup

4. Install system packages with Homebrew. From the Terminal run:

brew install openmpi

5. Install SpinningUp. From the Terminal run:

git clone https://github.com/openai/spinningup.git

cd spinningup

pip install –e .

6. Check the installation. From the Terminal run:

python –m spinup.run ppo --hid “[32,32]” --env LunarLander-v2 --exp_name installtest --gamma 0.999

Running Experiments in LunarLanderContinuous-v2

7. The basic structure of the PPO Algorithm. From the Terminal run:

python -m spinup.run ppo --exp_name LunarLanderContinuous1 --env LunarLanderContinuous-v2 --hid "[128,64]" --data_dir [location]/[your_machine_name]/[path] --dt

8. Testing results. From the Terminal run:

Python –m spinup.run test_policy [location]/[your_machine_name]/[path]

9. Plotting results. From the Terminal run:

Python –m spinup.run plot [location]/[your_machine_name]/[path]

Solving LunarLanderContinuous-v2

10. Train CLaiR, the agent. From the Terminal run:

python -m spinup.run ppo --exp_name LunarLanderx1 --env LunarLanderContinuous-v2 --clip_ratio 0.2 --hid "[128,64]" --gamma 0.999 --vf_lr 0.0024 --seed 20 --epochs 150 --pi_lr 0.0002 --target_kl 0.04 --data_dir /path –dt

11. Test CLaiR. From the Terminal run:

python -m spinup.run test_policy /path