

Continuum Robot PPO report

Model Name	./model/reward_2
Time	2025-04-21 06:38
Model_Type	PPO
Timesteps	22000000
Control Mode	1
Device	cuda
Network Arch	[1024, 1024, 512]
Average Error	1.1336365901069894
batch	16384
buffer_size	100
train_freq	1
learning_starts	1
n_steps	2048
n_epochs	10
learning_rate	0.0003
n_env	48
best_value_loss	2.5885552684466044

Reward Function Source

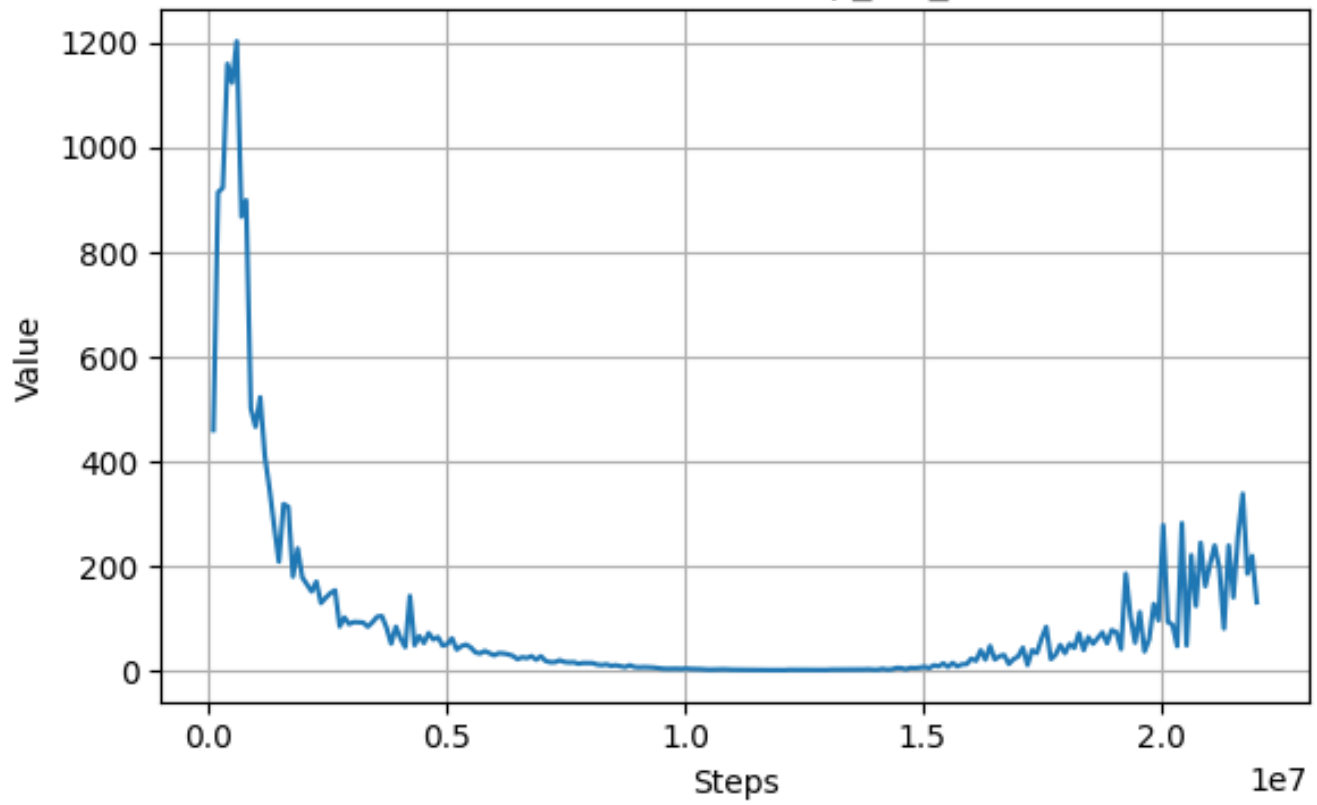
```
def my_custom_reward1(distance):  
    return -distance + np.exp(-distance**2) * 5
```

Done Function Source

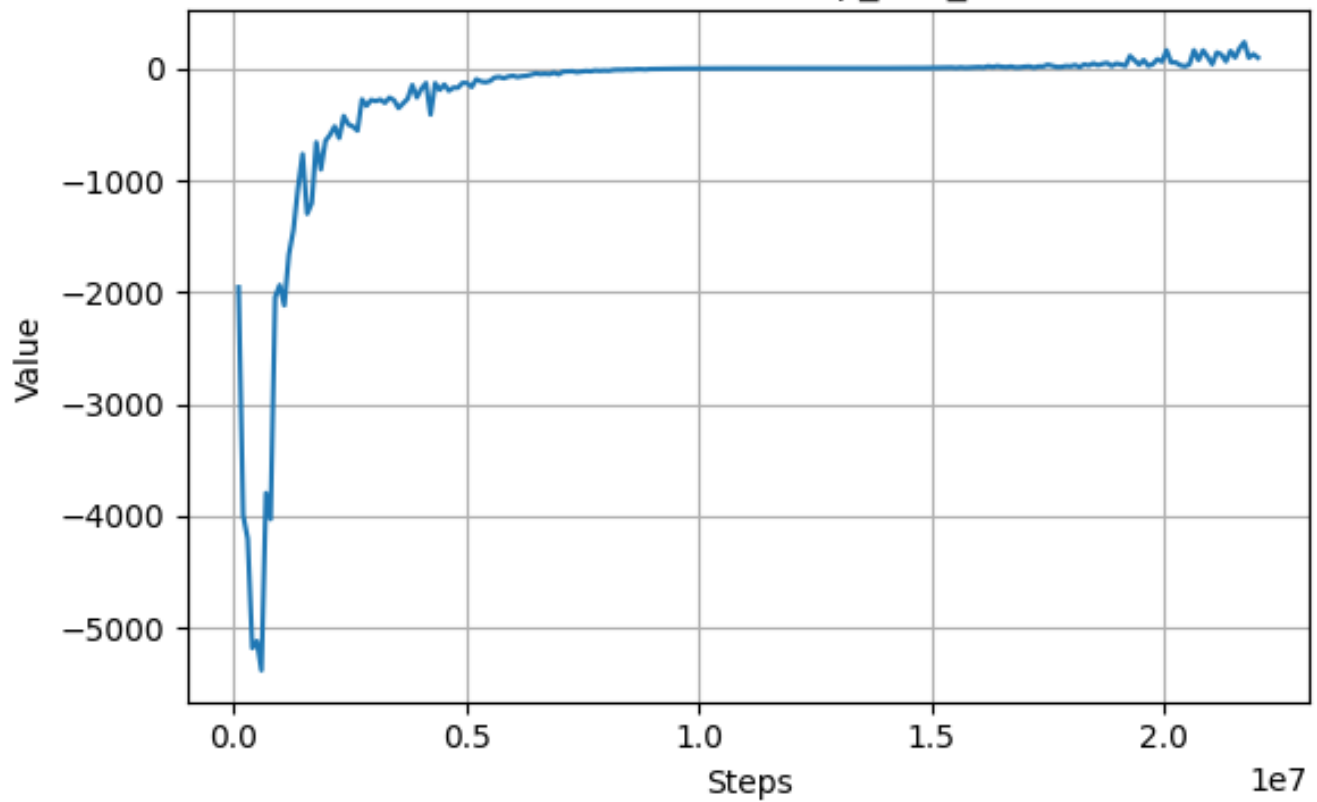
```
def my_custom_done9(reward, step):  
    return reward>2
```

Training Reward Curve

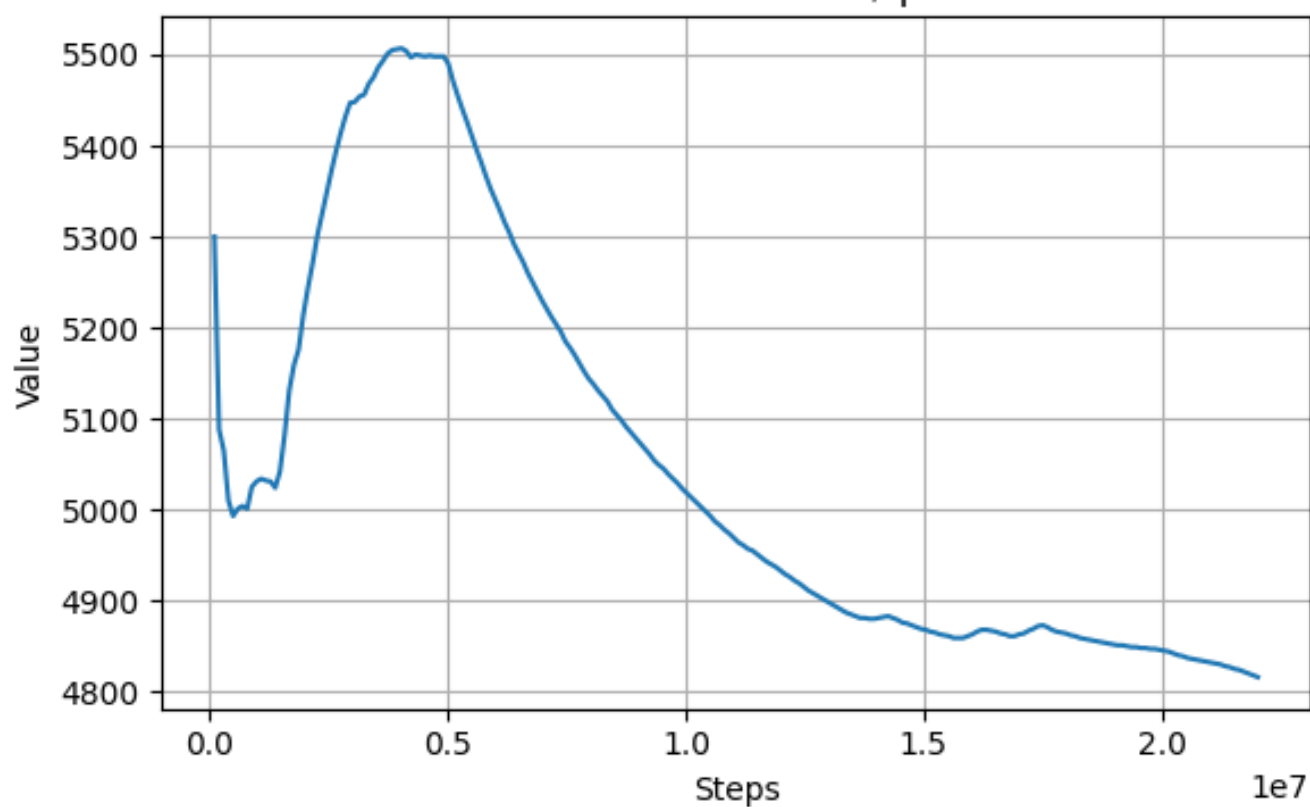
TensorBoard: rollout/ep_len_mean



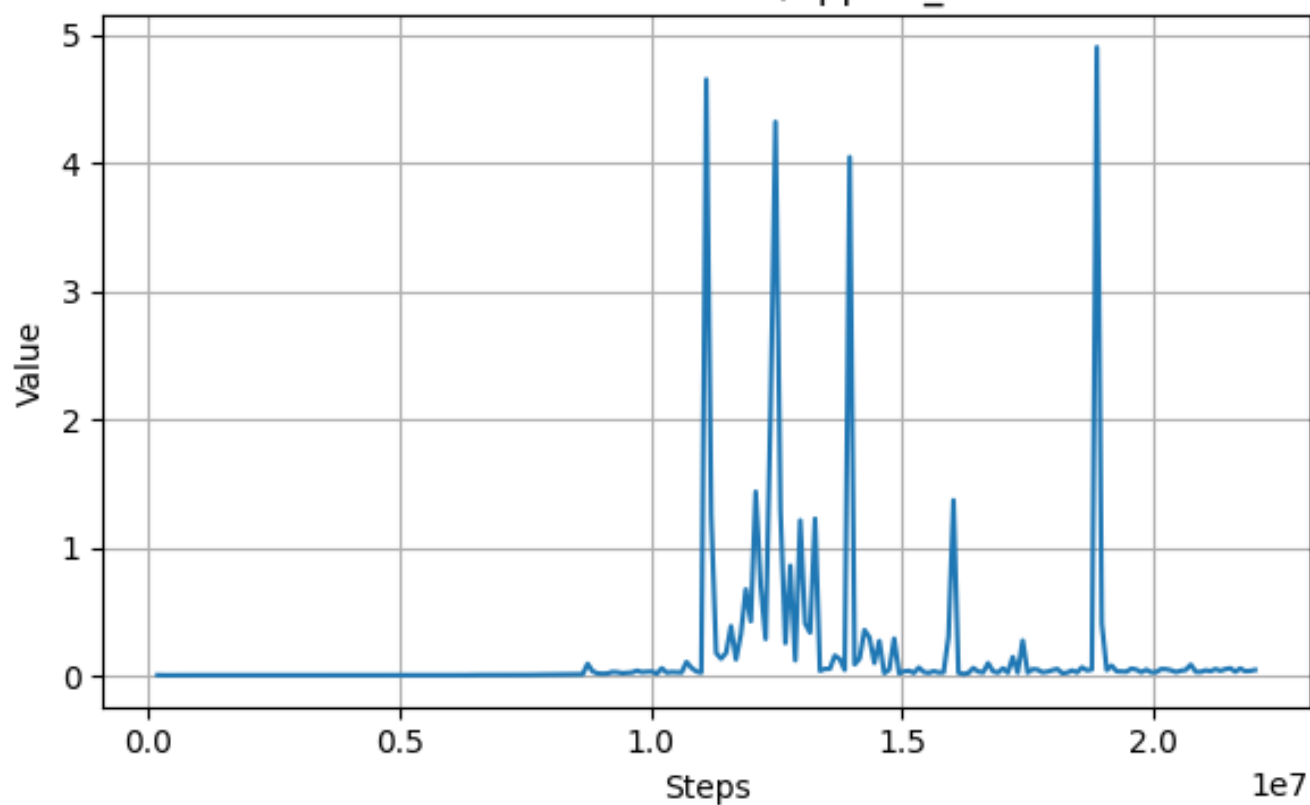
TensorBoard: rollout/ep_rew_mean



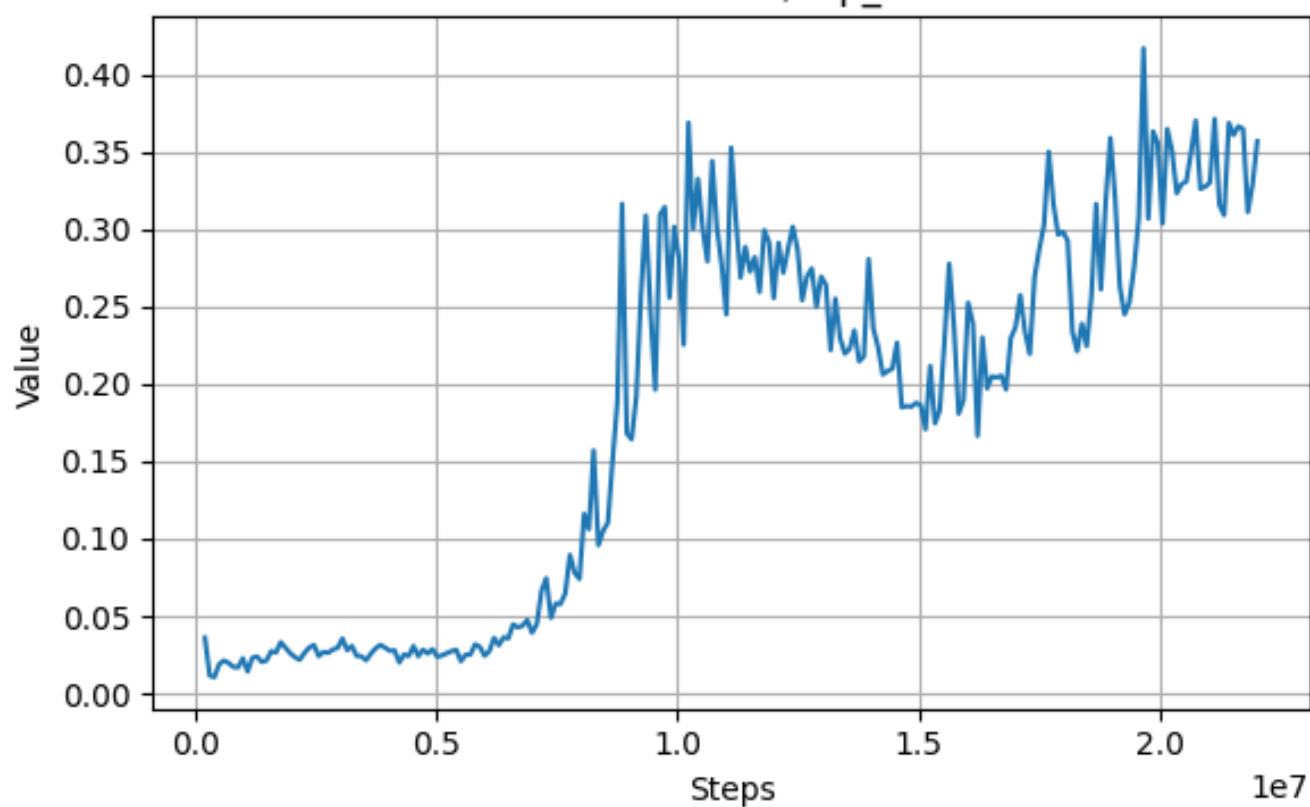
TensorBoard: time/fps



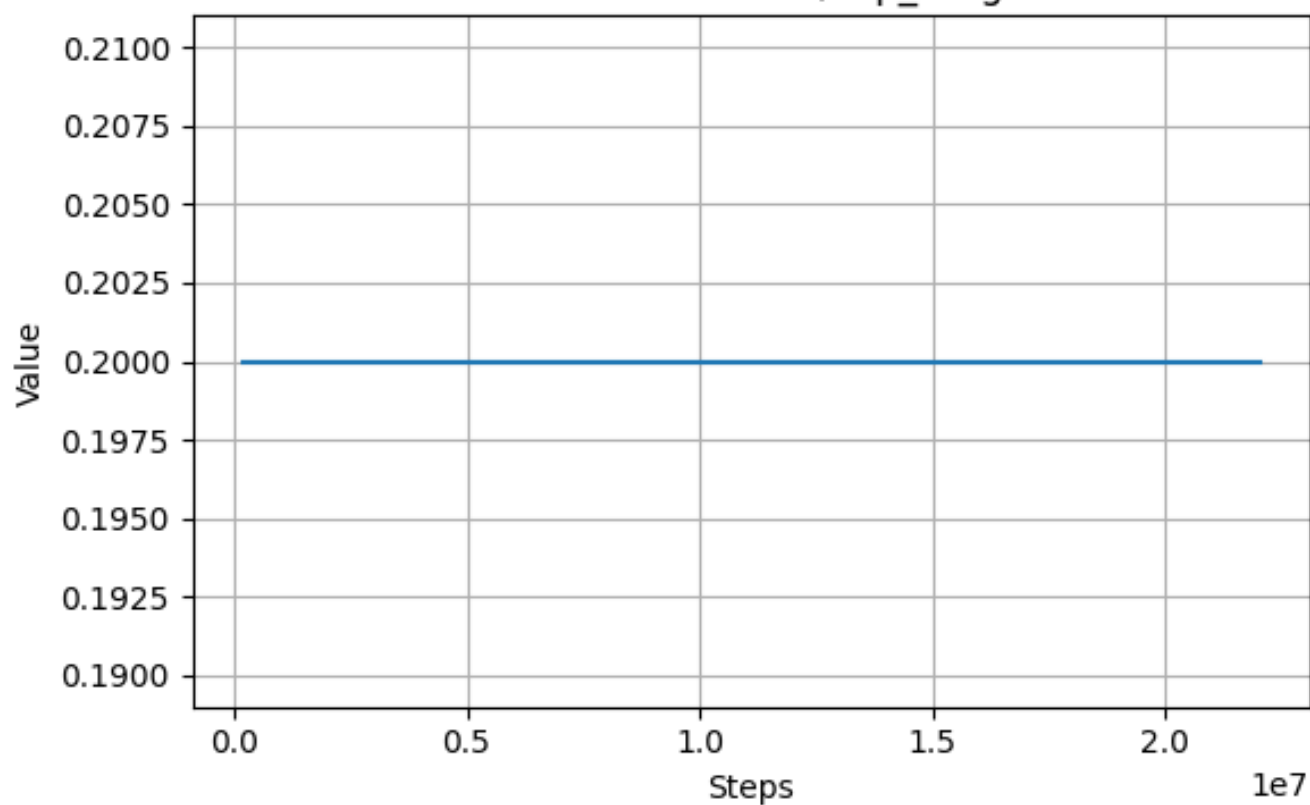
TensorBoard: train/approx_kl



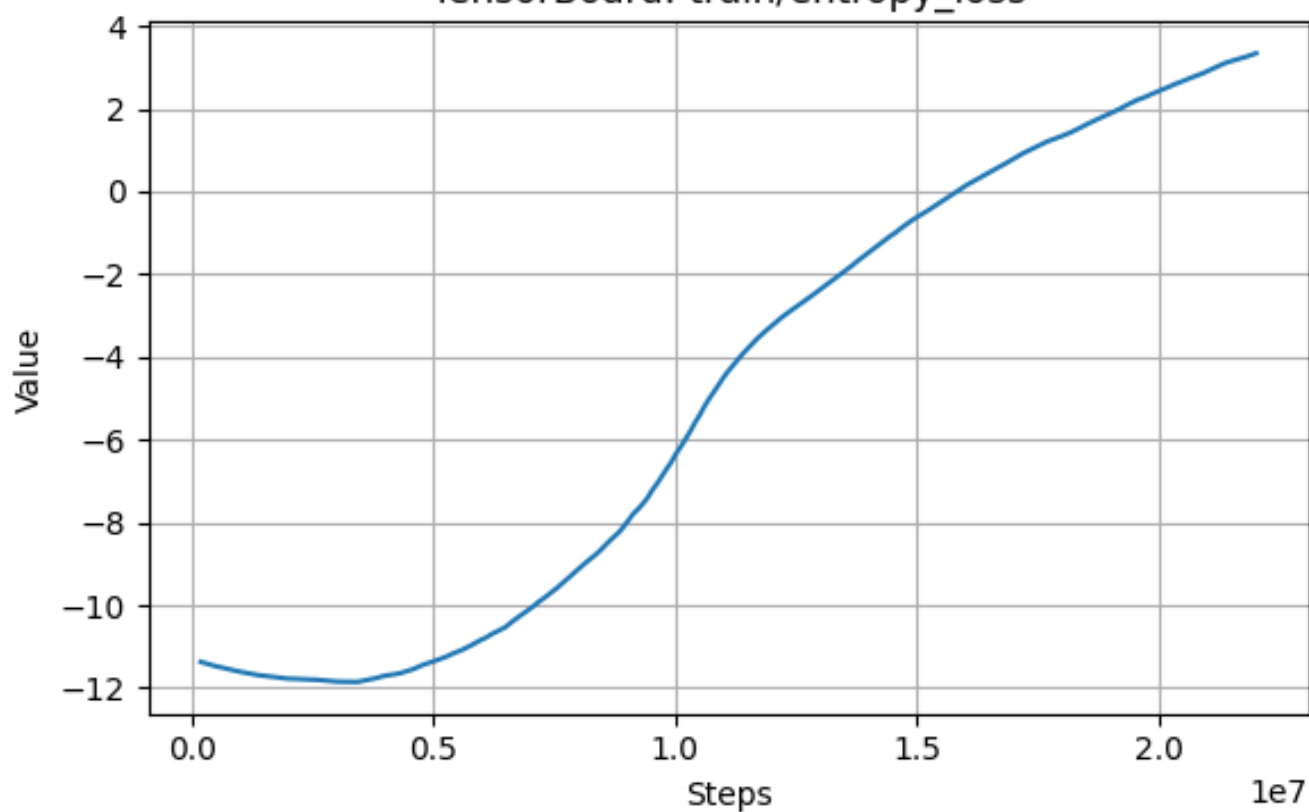
TensorBoard: train/clip_fraction



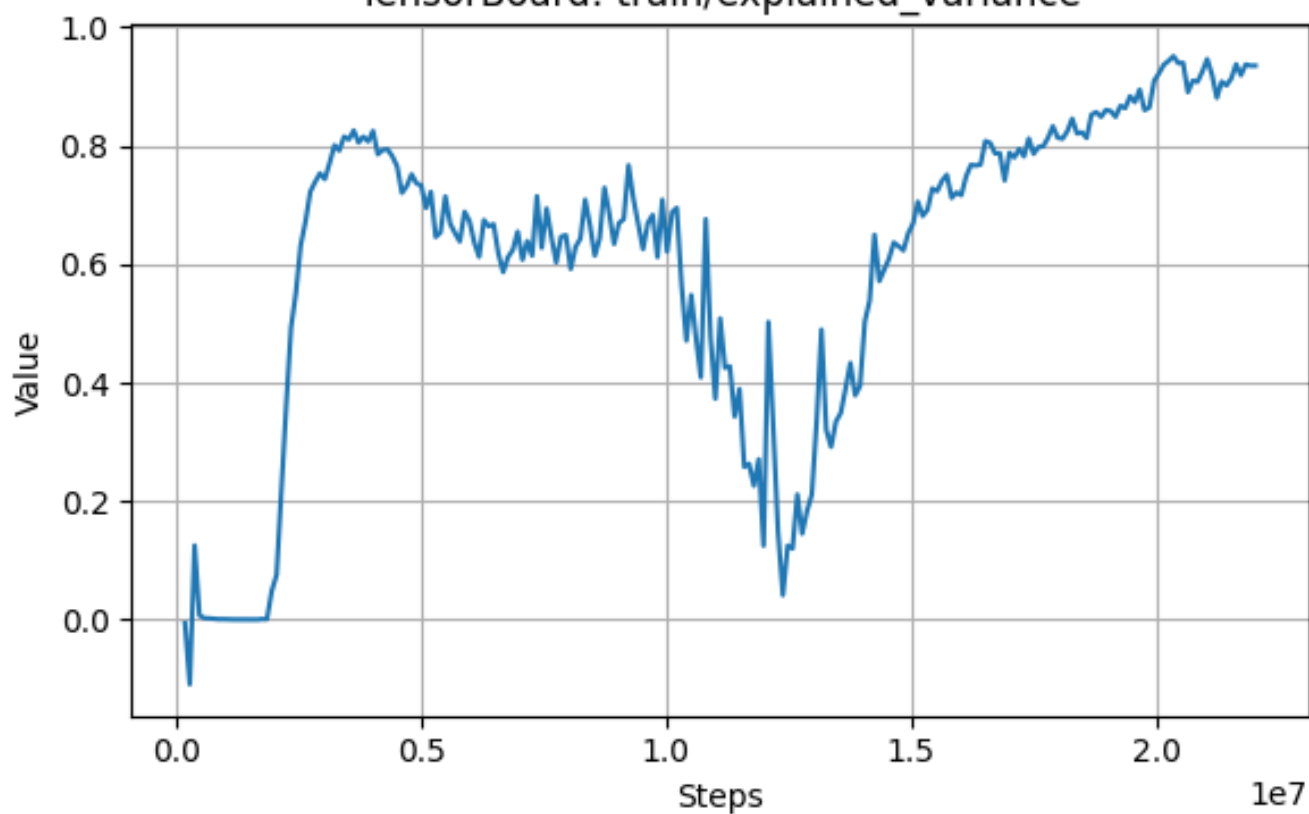
TensorBoard: train/clip_range



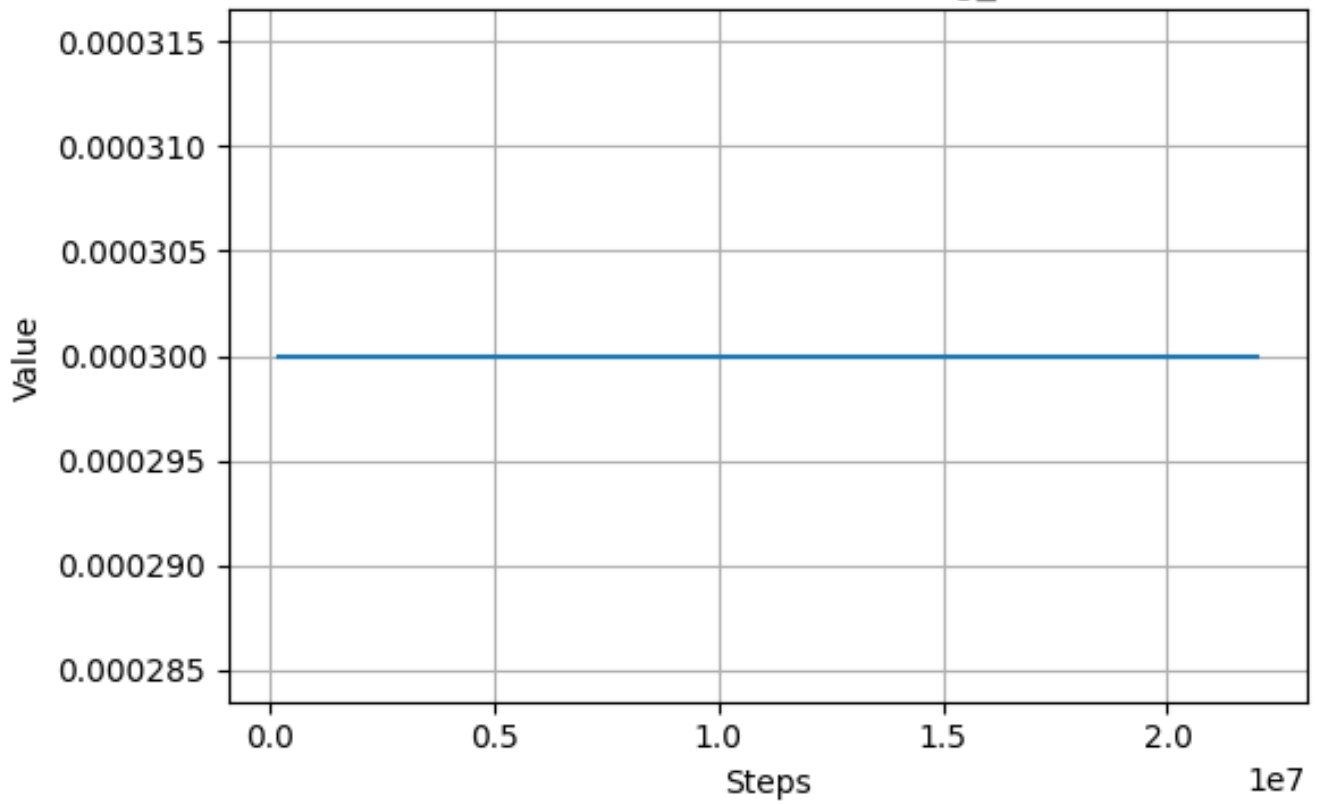
TensorBoard: train/entropy_loss



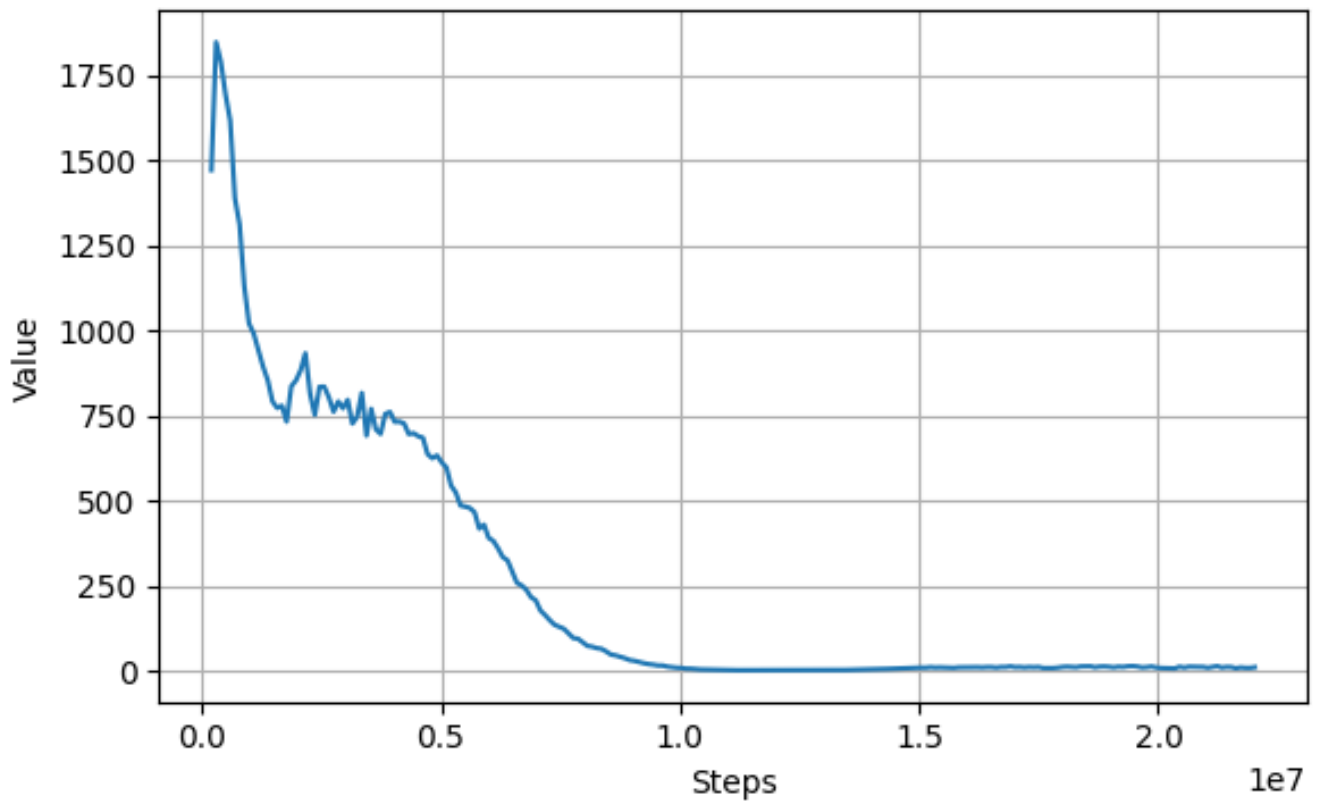
TensorBoard: train/explained_variance



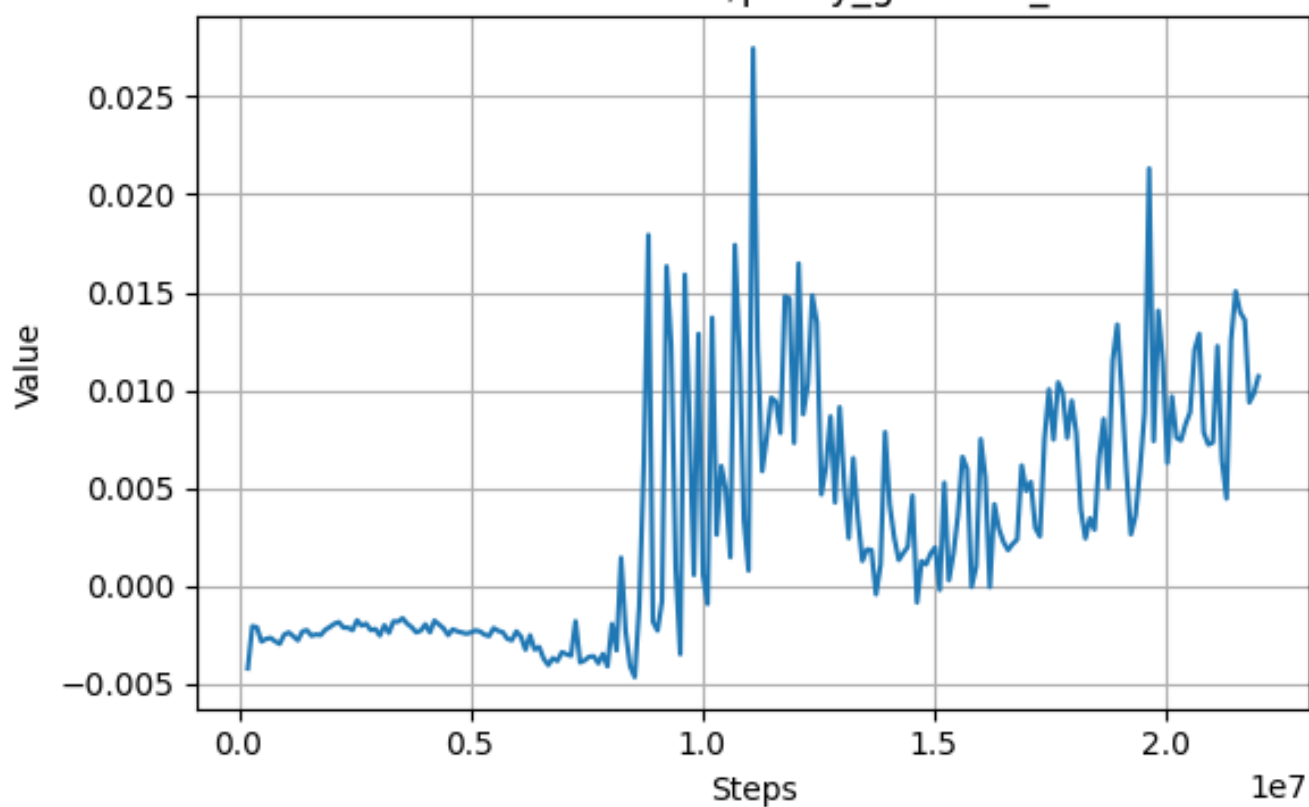
TensorBoard: train/learning_rate



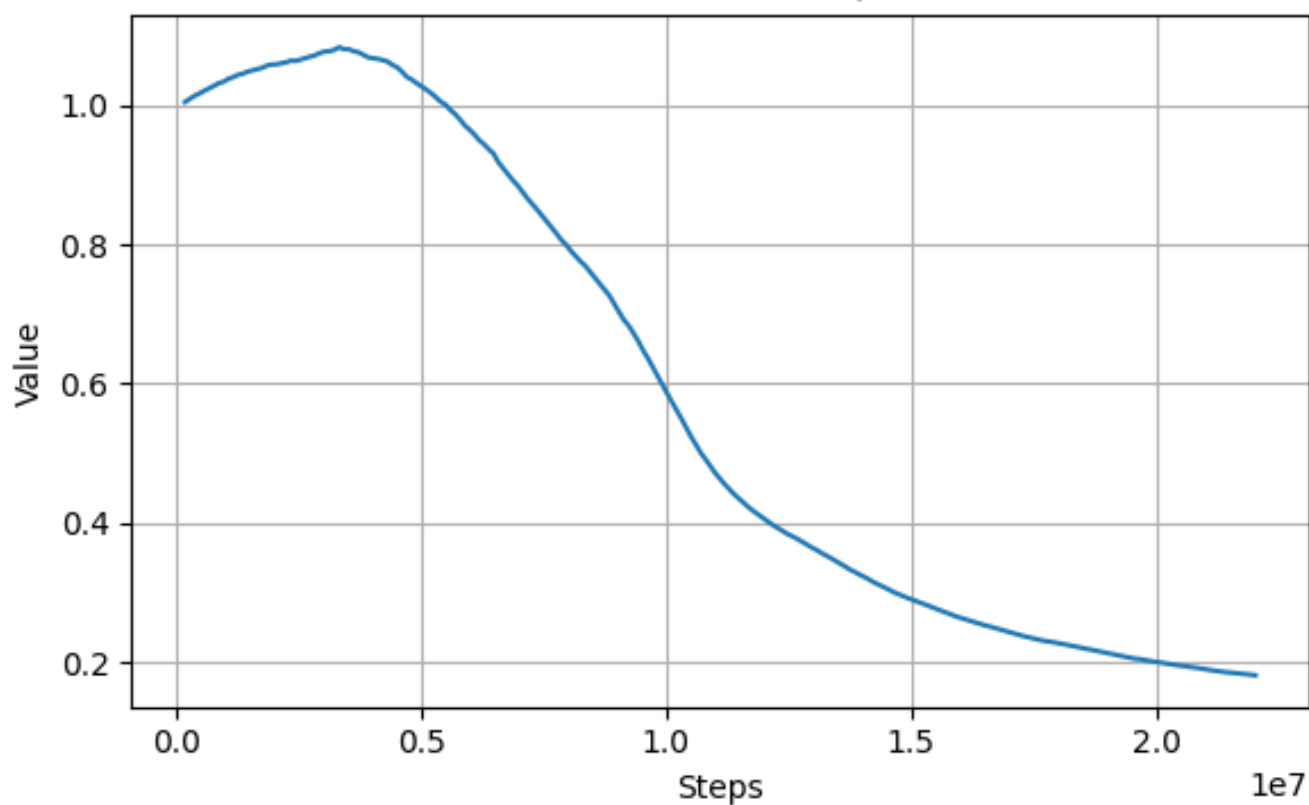
TensorBoard: train/loss



TensorBoard: train/policy_gradient_loss



TensorBoard: train/std



TensorBoard: train/value_loss

