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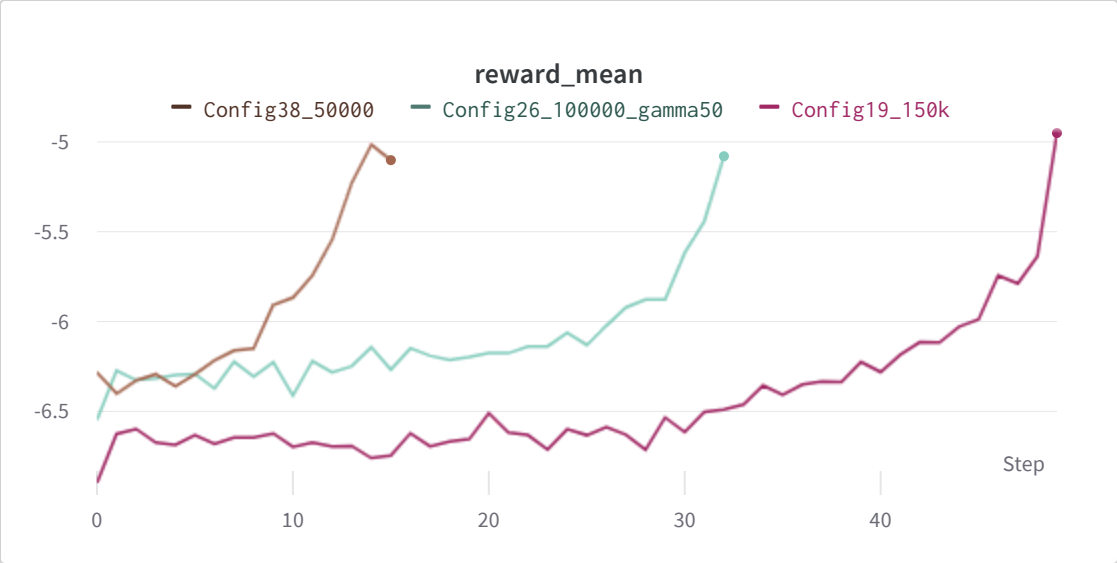
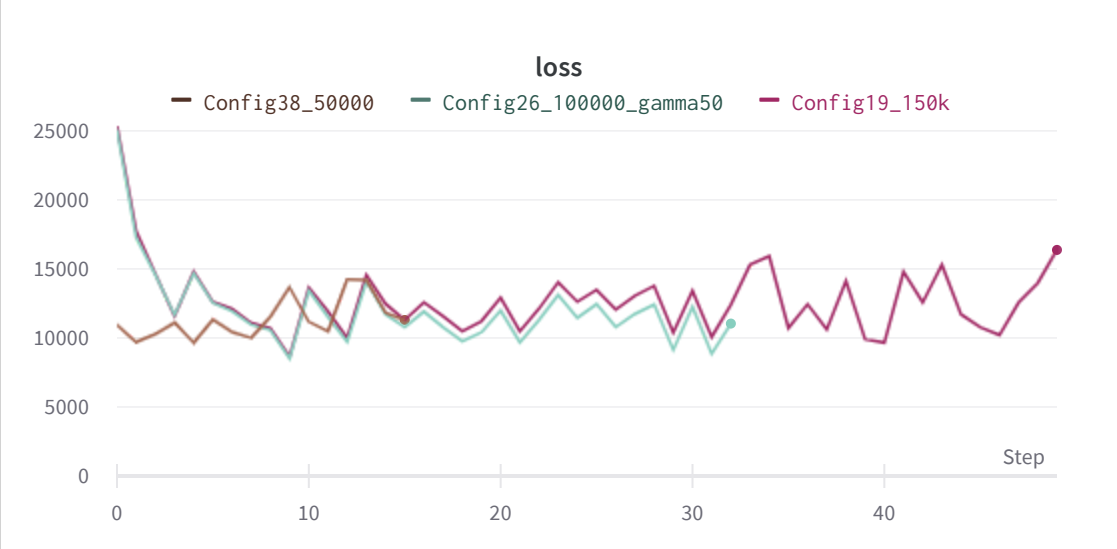
Final Agents for ES:WR+T Paper

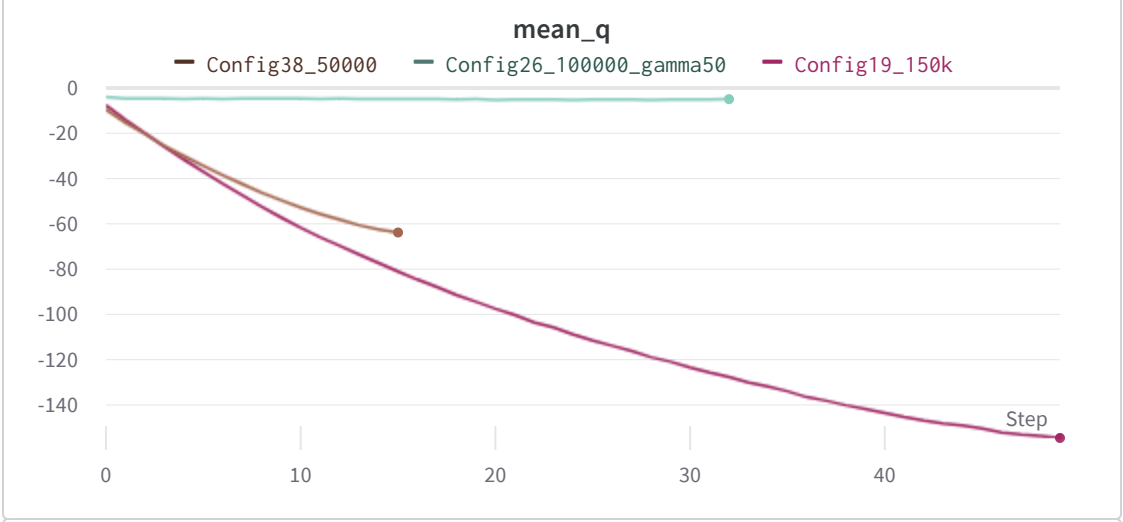
Agents described in https://doi.org/10.1039/D1EW00582K
Agent 1: RL-FD = Config26_100000_gamma50
Agent 2: RL-FDTSS = Config19_150K
Agent 3: RL-FD+FDTSS = Config38_50000

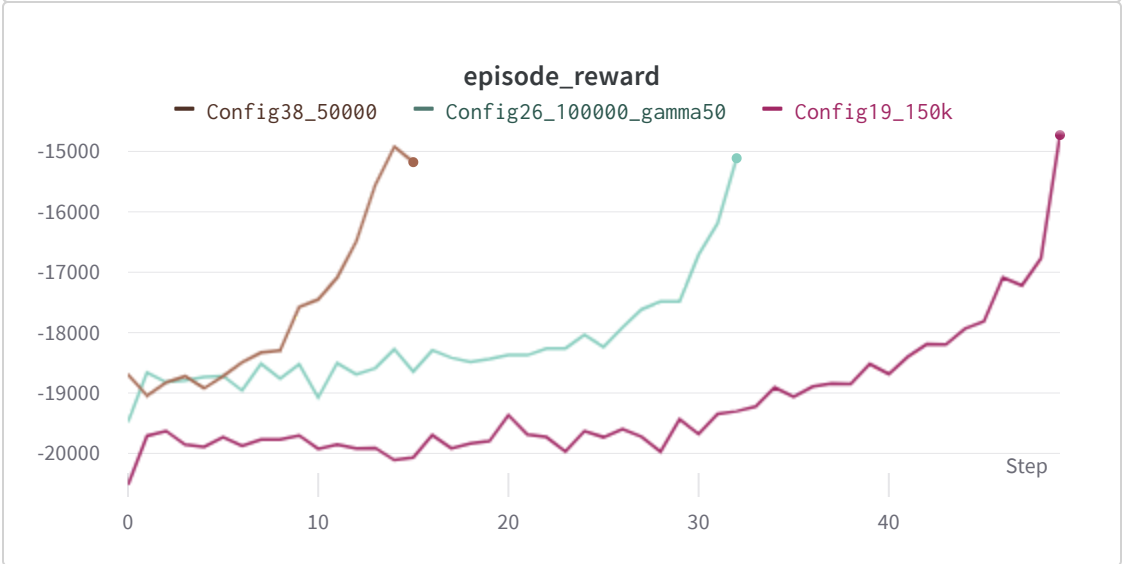
bdb3m

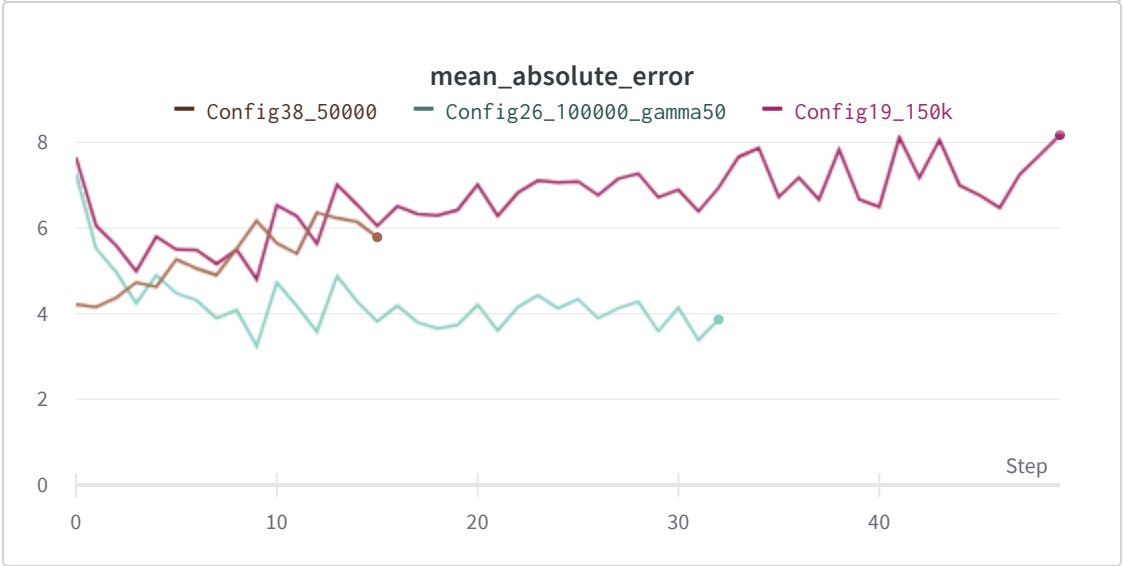
Section 1

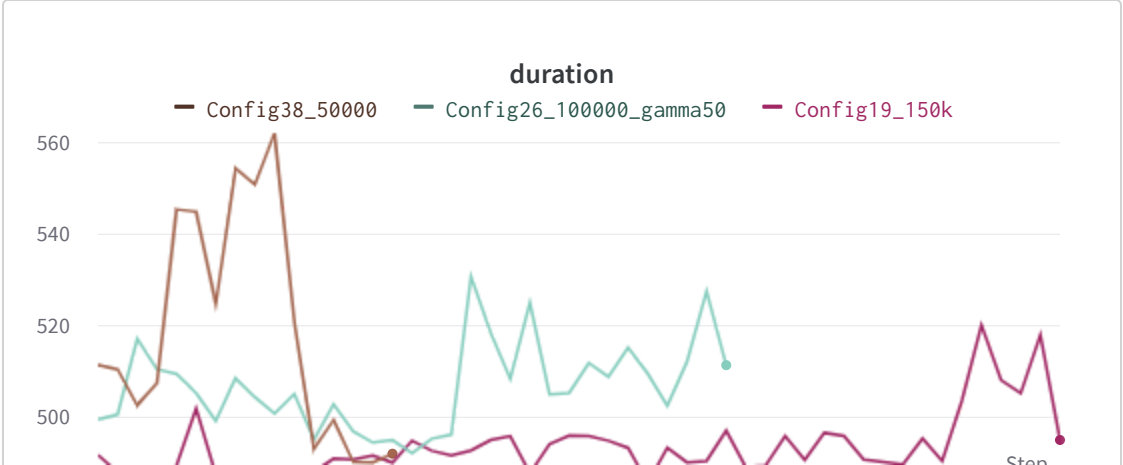




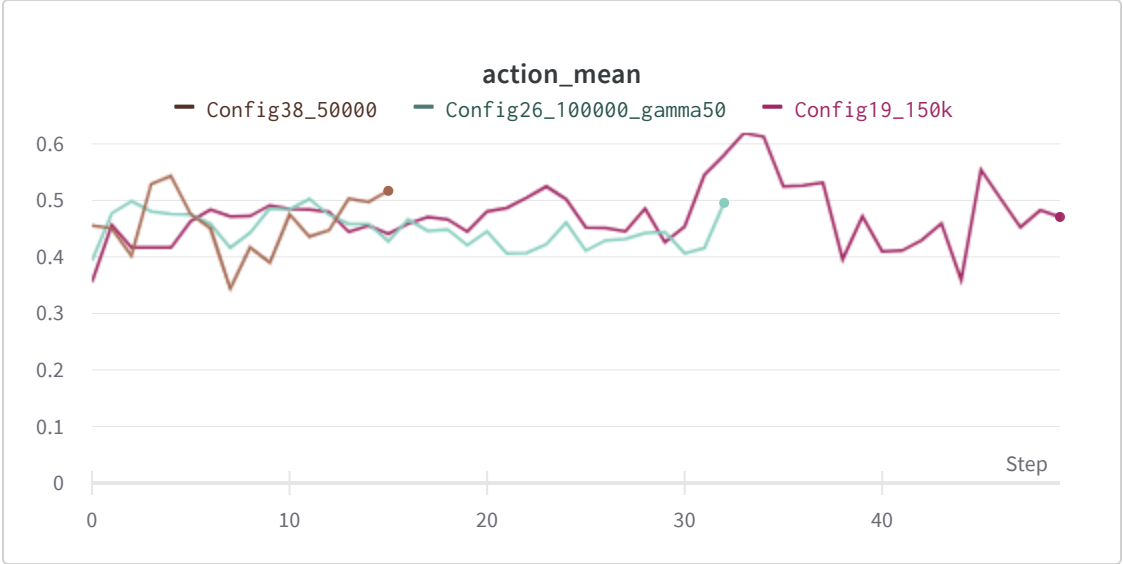

mean_q
Config38_50000
Config26_100000_gamma50
Config19_150k
0
-20
-40
-60
-80
-100
-120
-140
Step
0
10
20
30
40

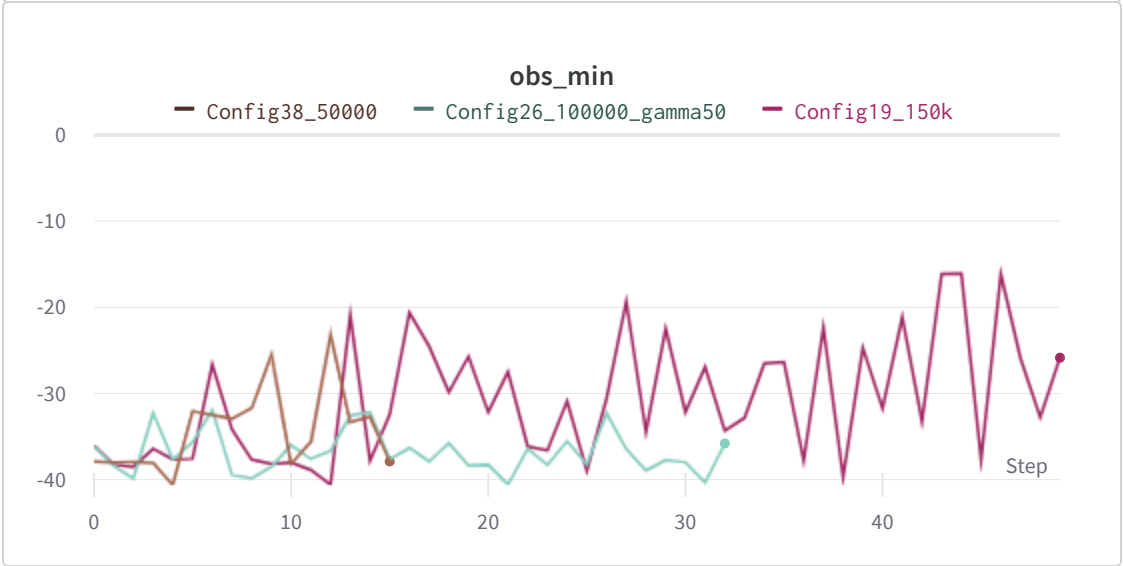

episode_reward
Config38_50000
Config26_100000_gamma50
Config19_150k
-15000
-16000
-17000
-18000
-19000
-20000
Step
0
10
20
30
40

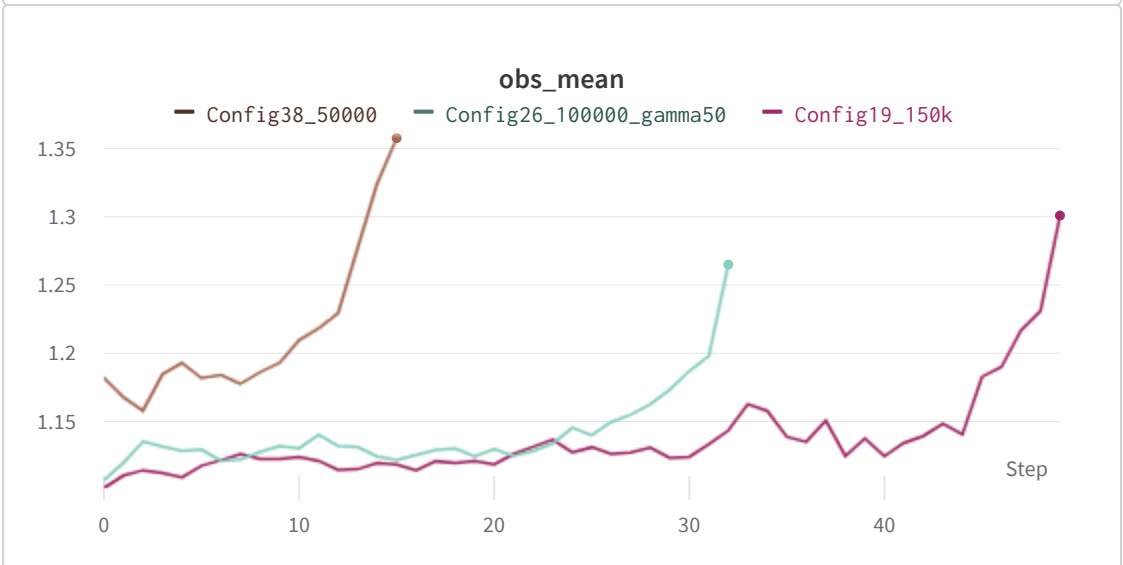

mean_absolute_error
Config38_50000
Config26_100000_gamma50
Config19_150k
8
6
4
2
0
Step
0
10
20
30
40


duration
Config38_50000
Config26_100000_gamma50
Config19_150k
560
540
520
500
Step

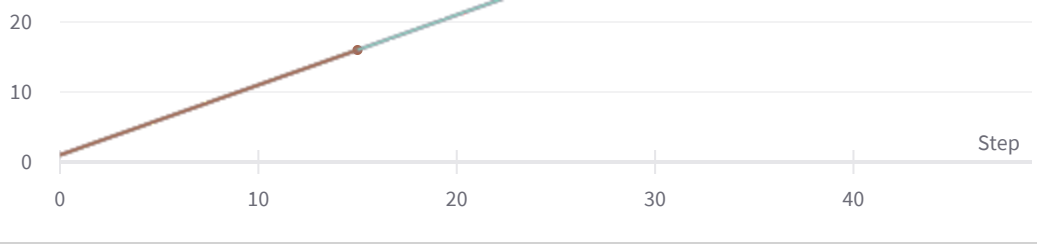
0
10
20
30
40
Step

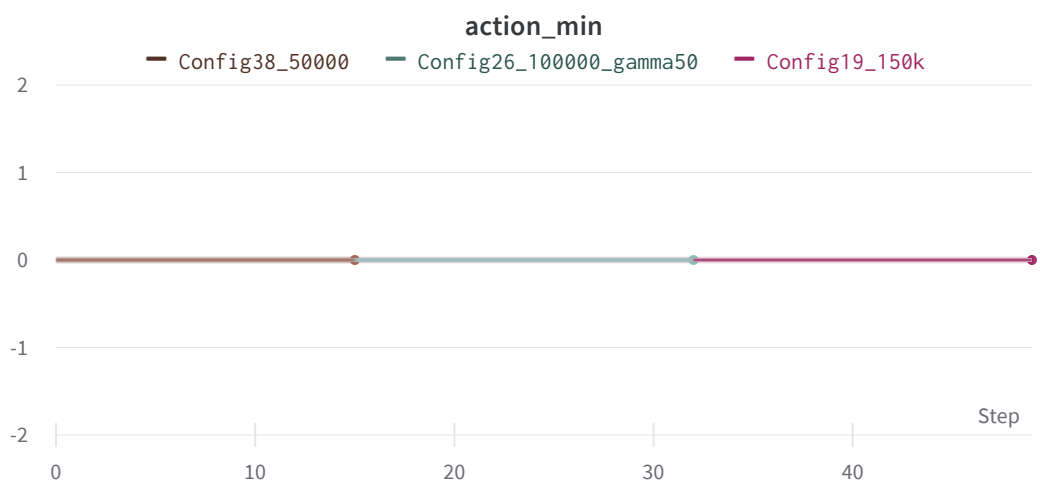

action_mean
Config38_50000
Config26_100000_gamma50
Config19_150k
0.6
0.5
0.4
0.3
0.2
0.1
0
Step
0
10
20
30
40

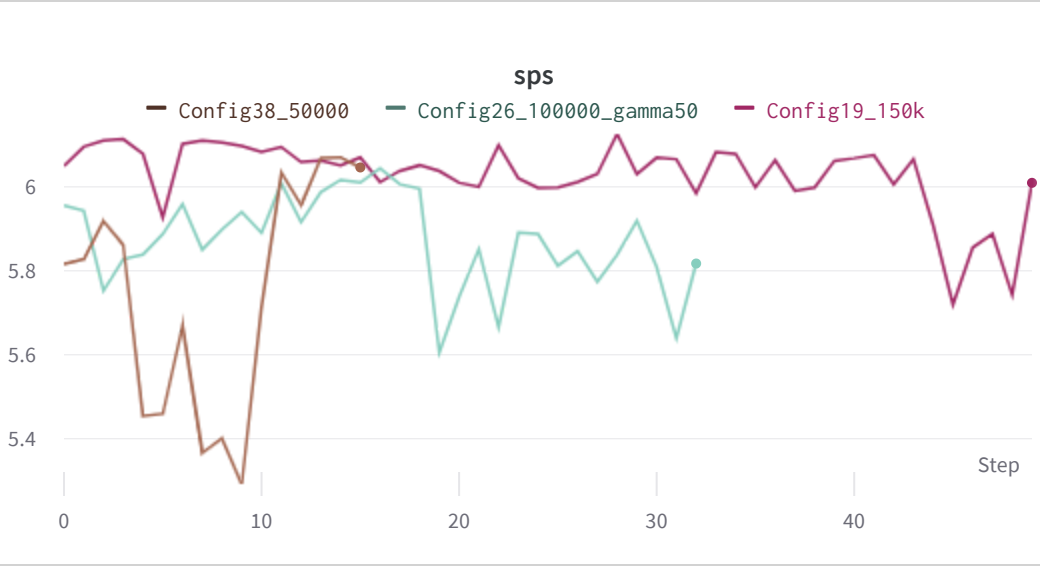

obs_min
Config38_50000
Config26_100000_gamma50
Config19_150k
0
-10
-20
-30
-40
Step
0
10
20
30
40

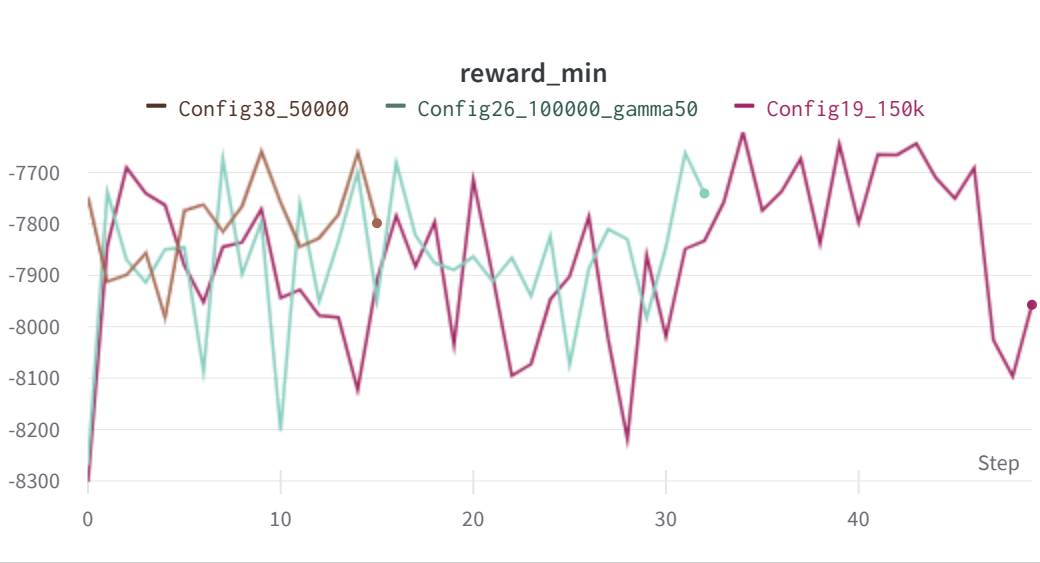

obs_mean
Config38_50000
Config26_100000_gamma50
Config19_150k
1.35
1.3
1.25
1.2
1.15
Step
0
10
20
30
40

episode
Config38_50000
Config26_100000_gamma50
Config19_150k
50
40
30

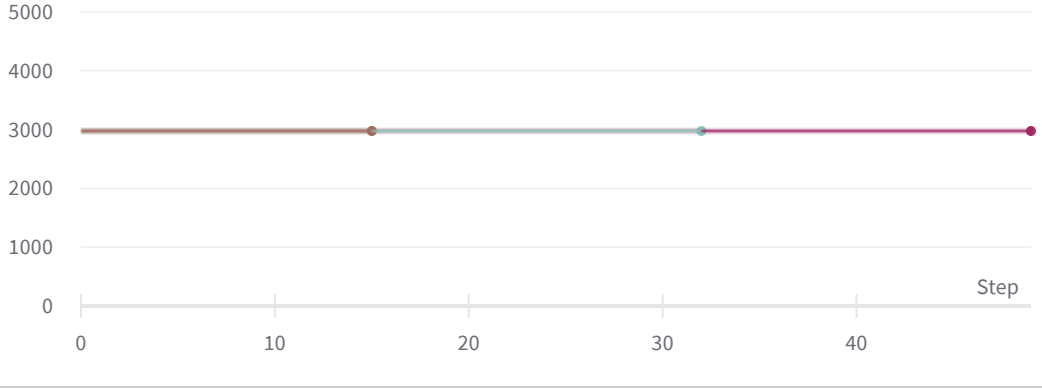

20
10
0
Step
0
10
20
30
40

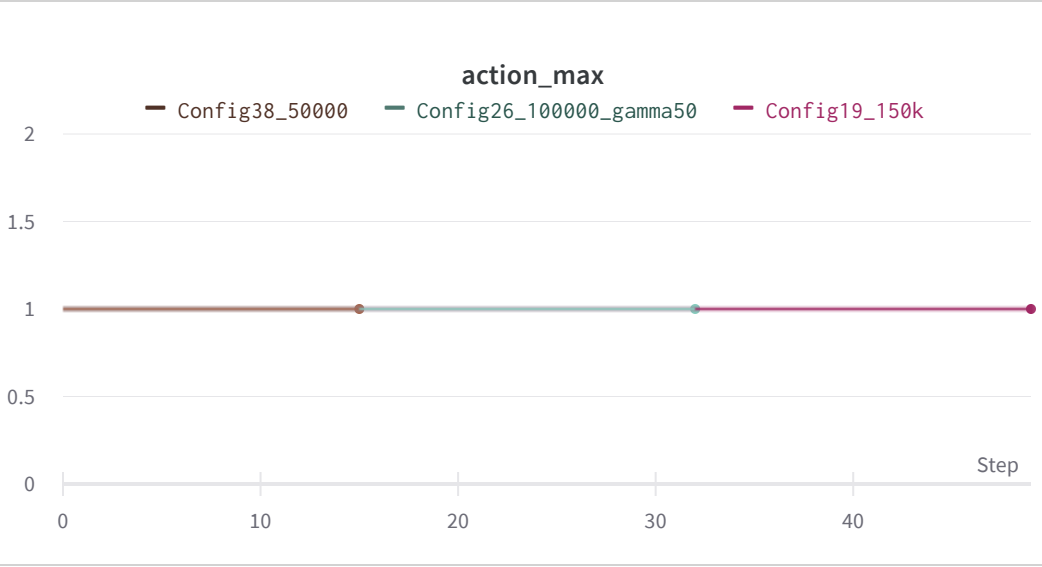

action_min
Config38_50000
Config26_100000_gamma50
Config19_150k
2
1
0
-1
-2
Step
0
10
20
30
40

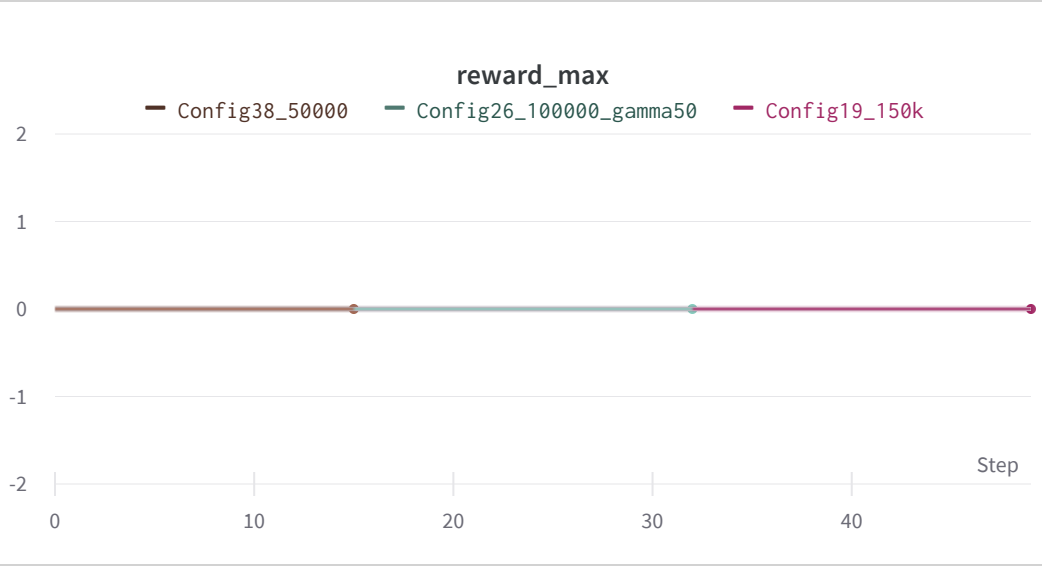

sps
Config38_50000
Config26_100000_gamma50
Config19_150k
6
5.8
5.6
5.4
Step
0
10
20
30
40

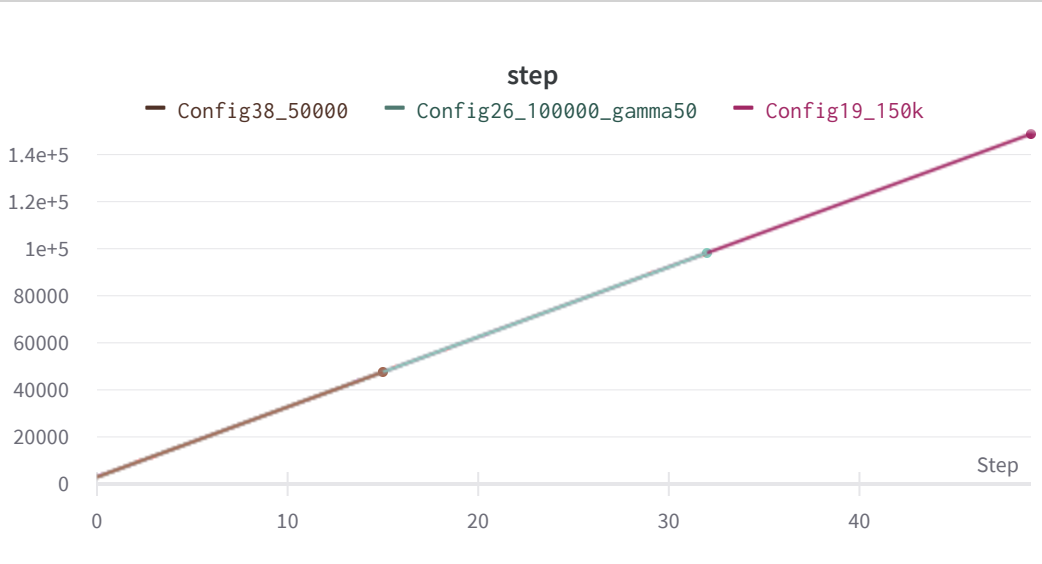

reward_min
Config38_50000
Config26_100000_gamma50
Config19_150k
-7700
-7800
-7900
-8000
-8100
-8200
-8300
Step
0
10
20
30
40

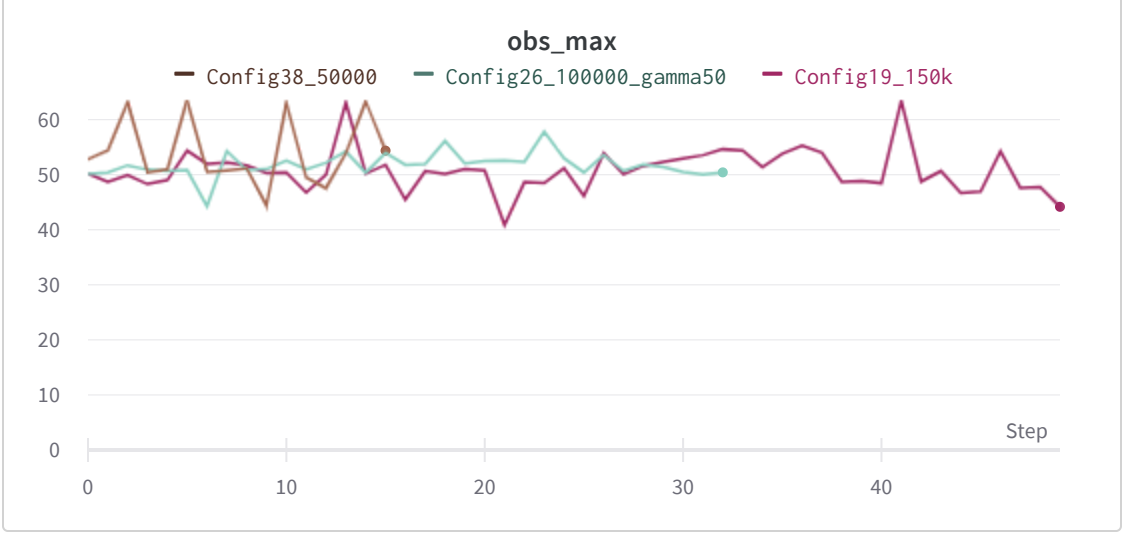
episode_steps
Config38_50000
Config26_100000_gamma50
Config19_150k

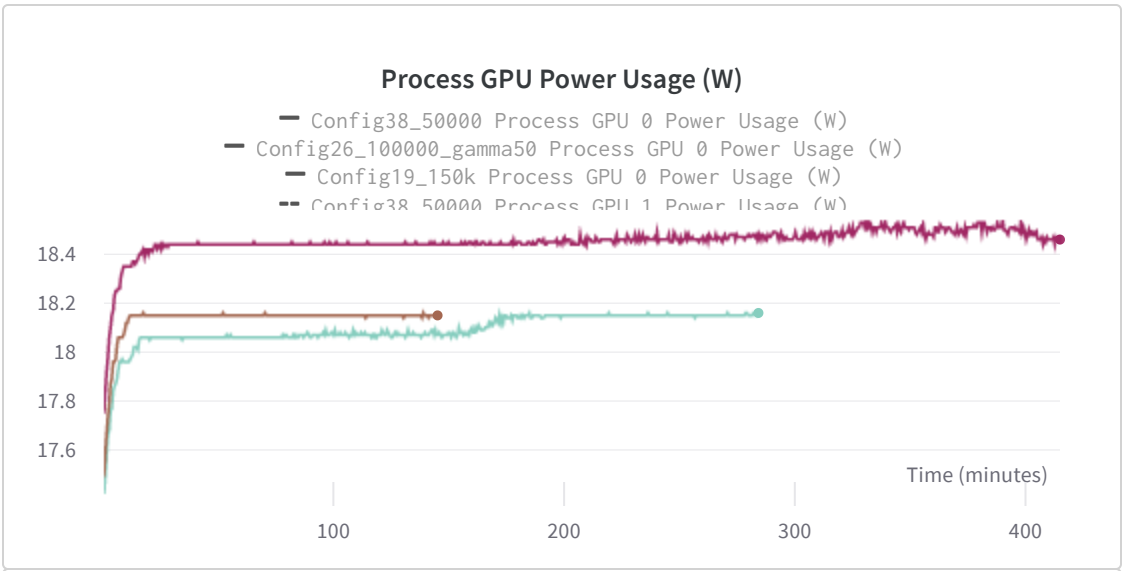

5000
4000
3000
2000
1000
0
Step
0
10
20
30
40

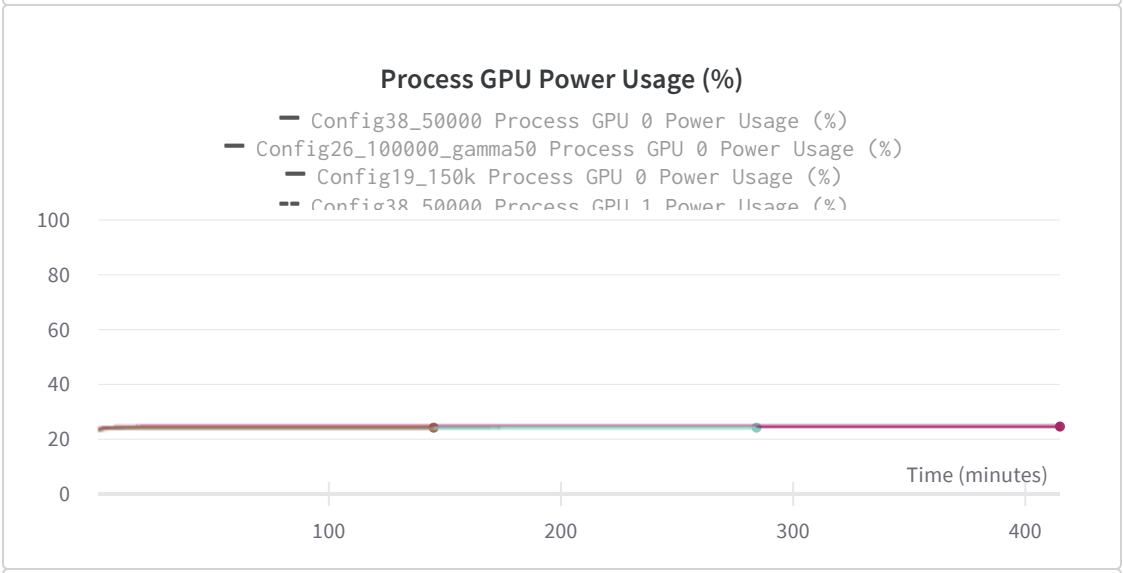

action_max
Config38_50000
Config26_100000_gamma50
Config19_150k
2
1.5
1
0.5
0
Step
0
10
20
30
40

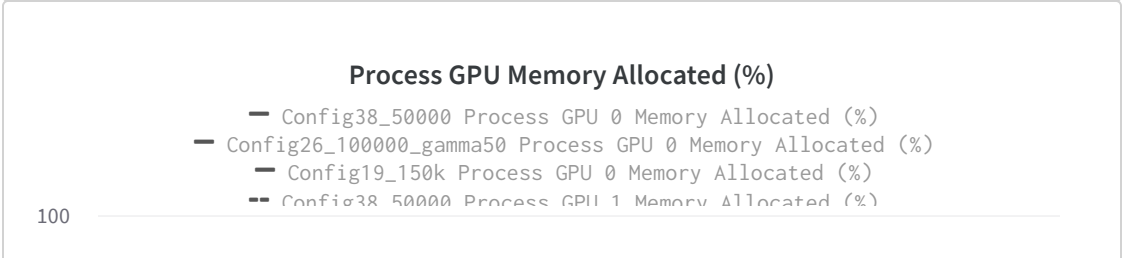

reward_max
Config38_50000
Config26_100000_gamma50
Config19_150k
2
1
0
-1
-2
Step
0
10
20
30
40

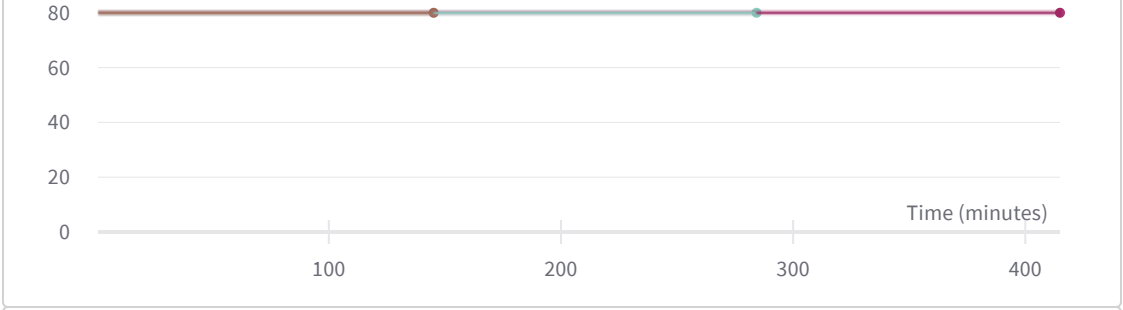

step
Config38_50000
Config26_100000_gamma50
Config19_150k
1.4e+5
1.2e+5
1e+5
80000
60000
40000
20000
0
Step
0
10
20
30
40


obs_max
Config38_50000
Config26_100000_gamma50
Config19_150k
60
50
40
30
20
10
0
Step
0
10
20
30
40

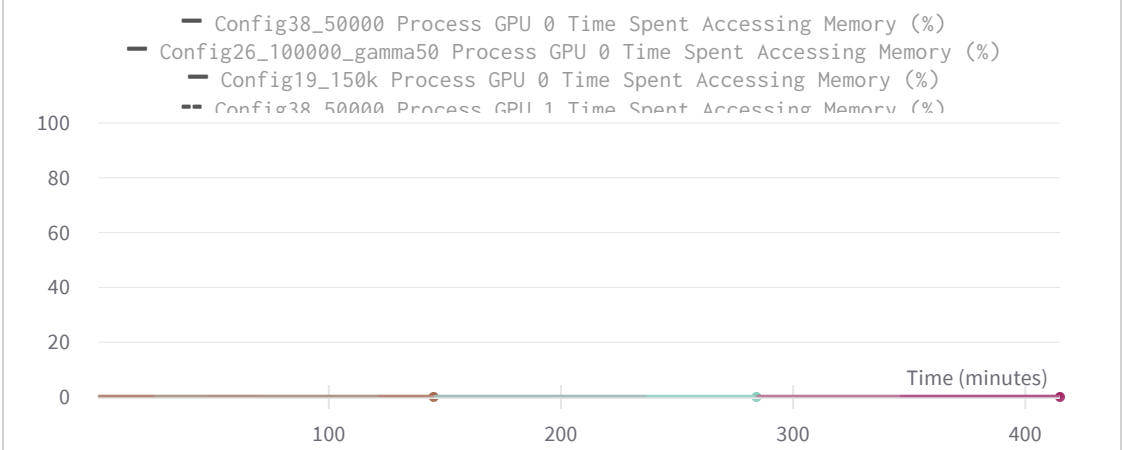

Process GPU Power Usage (W)
Config38_50000 Process GPU 0 Power Usage (W)
Config26_100000_gamma50 Process GPU 0 Power Usage (W)
Config19_150k Process GPU 0 Power Usage (W)
18.4
18.2
18
17.8
17.6
Time (minutes)
100
200
300
400


Process GPU Power Usage (%)
Config38_50000 Process GPU 0 Power Usage (%)
Config26_100000_gamma50 Process GPU 0 Power Usage (%)
Config19_150k Process GPU 0 Power Usage (%)
100
80
60
40
20
0
Time (minutes)
100
200
300
400

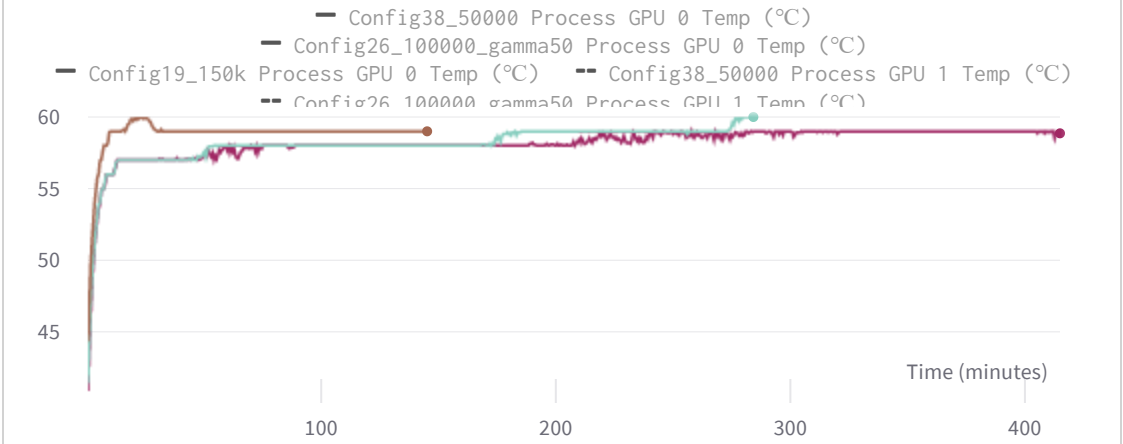

Process GPU Memory Allocated (%)
Config38_50000 Process GPU 0 Memory Allocated (%)
Config26_100000_gamma50 Process GPU 0 Memory Allocated (%)
Config19_150k Process GPU 0 Memory Allocated (%)
100



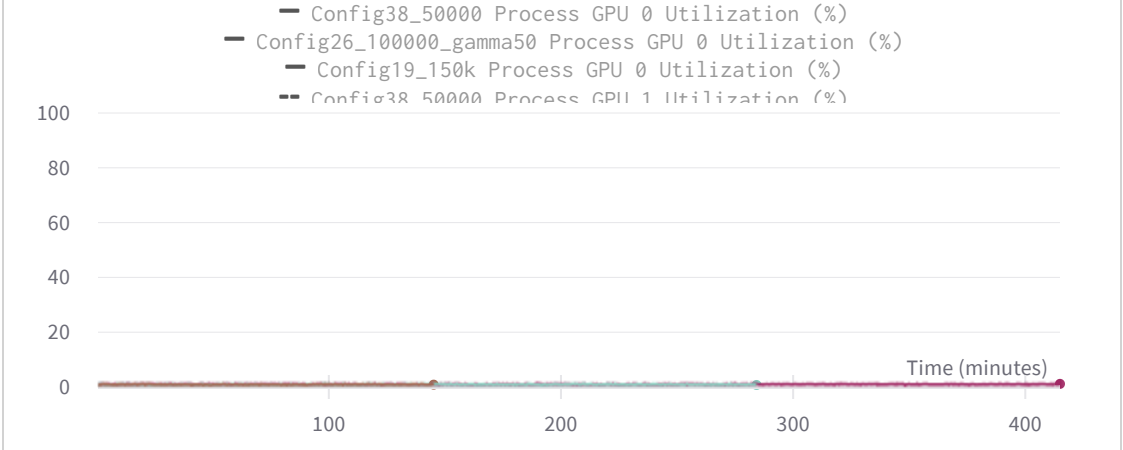
Process GPU Time Spent Accessing Memory (%)



Process GPU Temp (°C)



Process GPU Utilization (%)



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https://wandb.ai/swmm_rl_wq/tuning/reports/Final-Agents-for-ES-WR-T-Paper--VmlldzoyMDA0Mjc3