

# Experiment Report

Start of automated test report 2023-05-03 19:52:59

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## Machine Information

sysname=Linux

nodename=workstation

release=5.19.0-40-generic

version=#41~22.04.1-Ubuntu SMP PREEMPT\_DYNAMIC Fri Mar 31 16:00:14 UTC 2

machine=x86\_64

CPU arch : X86\_64

CPU bits : 64

CPU brand : Intel(R) Core(TM) i7-10700K CPU @ 3.80GHz

CPU cores : 8

CPU base clock : 3.8000 GHz

CPU boost clock : 3.7920 GHz

System Memory : 31.35GB

Nvidia driver version : 525.105.17

Device 0 : NVIDIA GeForce GTX 1080

Device 0 : 8.0GB

## Library Information

python : 3.8.16

torch : 1.13.1+cu117

optuna : 3.1.0

numpy : 1.23.3

pandas : 1.5.3

matplotlib : 3.7.1

seaborn : 0.12.2

pcb library: generation of .pcb files.

Library version : 0.0.12

Library built with : C++14

Library built on : Mar 3 2023 23:10:31

netlist\_graph: Graph pre-processing library for PCB component placement.

Library version : 0.1.16

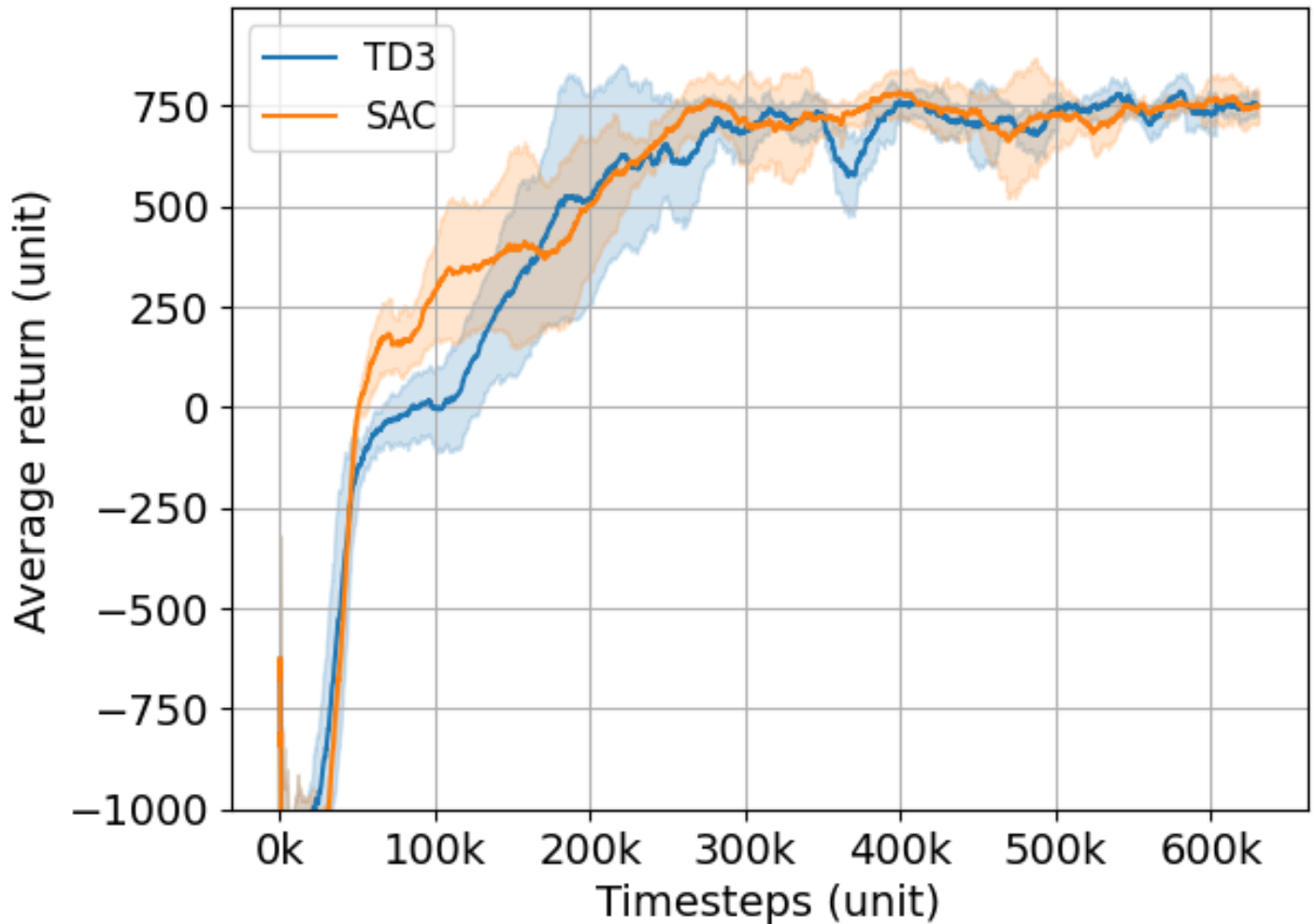
Library built with : C++14

Library built on : Mar 3 2023 23:10:32

# Hpyerparameters

experiment=parameter\_test\_622  
experiments=['parameter\_experiment\_622']  
algorithms=['TD3', 'SAC']  
averaging window=100 (user assigned)

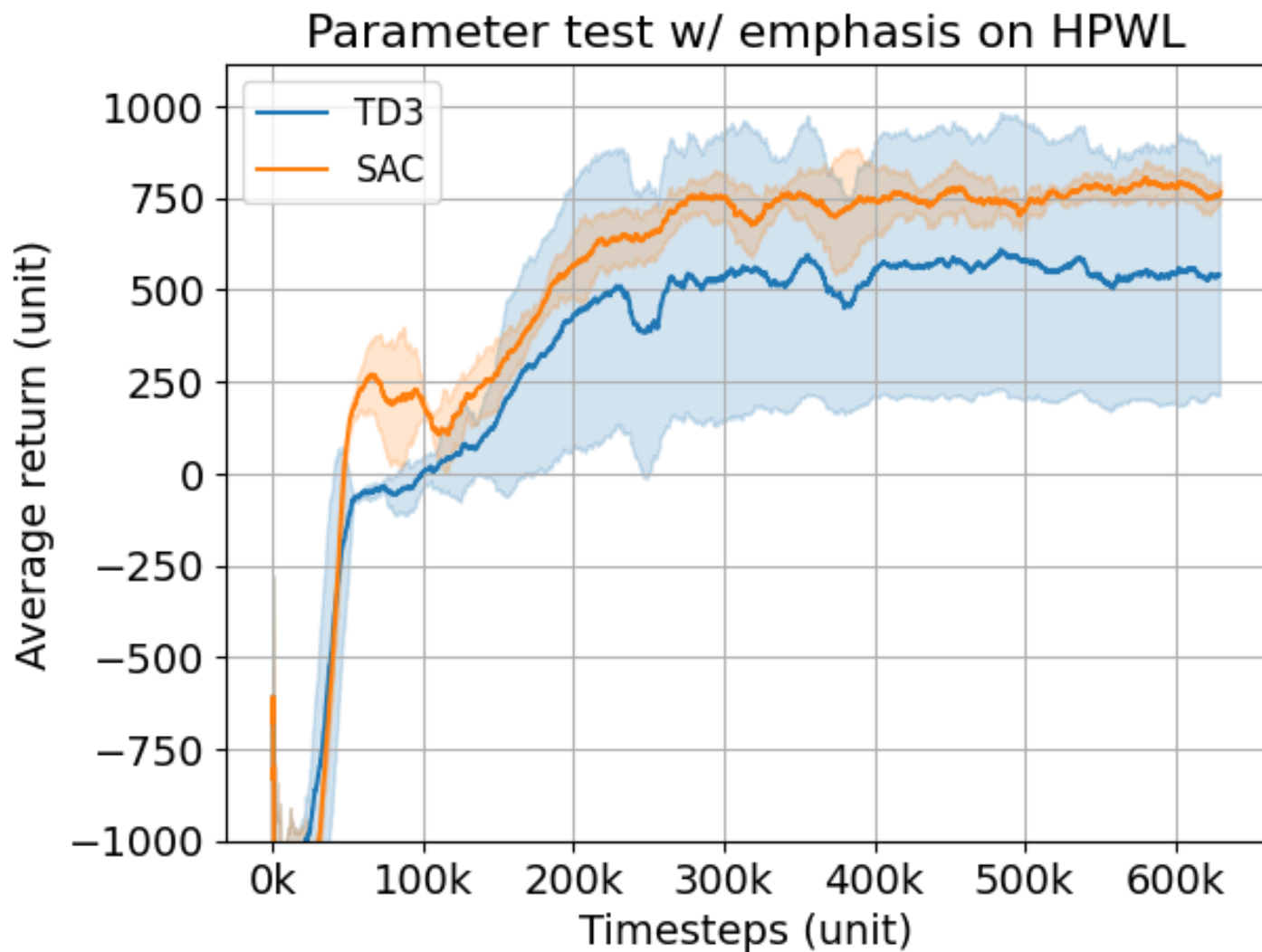
### Parameter test w/ emphasis on EW



title	experiment_622:TD3	experiment_622:SAC
run #0	743.6061 $\pm$ 309.0807	725.5745 $\pm$ 220.1904
run #1	751.2783 $\pm$ 359.8702	771.0150 $\pm$ 279.0140
run #2	741.4312 $\pm$ 358.9707	746.5241 $\pm$ 307.2689
run #3	763.0121 $\pm$ 318.8054	727.8441 $\pm$ 283.5328
mean	749.8319 $\pm$ 336.6818	742.7394 $\pm$ 272.5015

```
runs_involved=['1682846451_0', '1682846451_1', '1682846451_2',  
'1682846451_3', '1682978327_0', '1682978327_1', '1682978327_2',  
'1682978327_3']
```

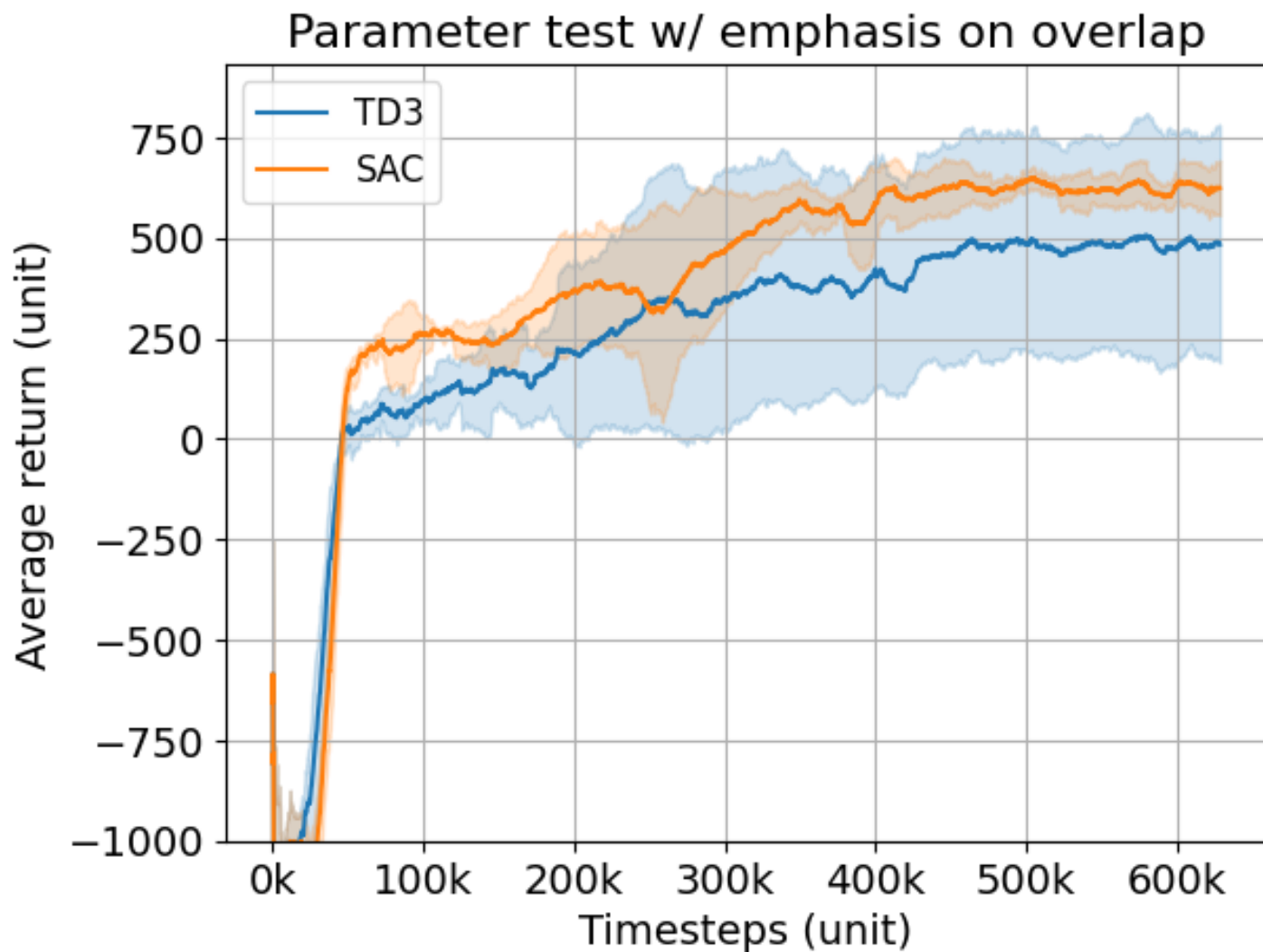
experiment=parameter\_test\_262  
experiments=['parameter\_experiment\_262']  
algorithms=['TD3', 'SAC']  
averaging window=100 (user assigned)



title	experiment_262:TD3	experiment_262:SAC
run #0	30.5272 ± 163.1855	723.4950 ± 316.6581
run #1	745.8057 ± 340.5152	786.7637 ± 248.7527
run #2	700.1023 ± 377.7466	782.4779 ± 264.0618
run #3	695.3932 ± 380.8499	796.0088 ± 269.1210
mean	542.9571 ± 315.5743	772.1864 ± 274.6484

```
runs_involved=['1682846453_0', '1682846453_1', '1682846453_2',  
'1682846453_3', '1682980649_0', '1682980649_1', '1682980649_2',  
'1682980649_3']
```

experiment=parameter\_test\_226  
 experiments=['parameter\_experiment\_226']  
 algorithms=['TD3', 'SAC']  
 averaging window=100 (user assigned)

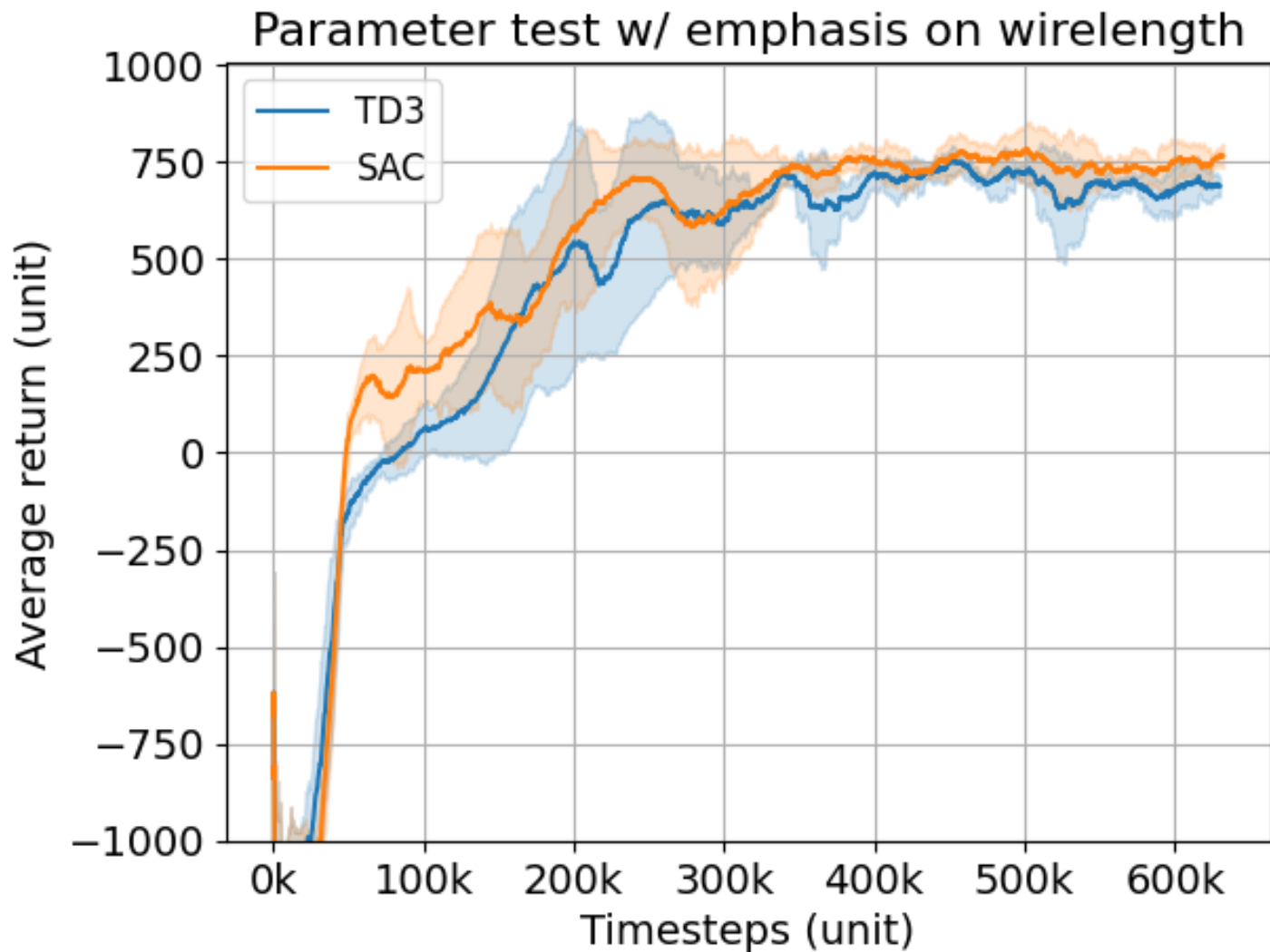


title	experiment_226:TD3	experiment_226:SAC
run #0	632.4551 $\pm$ 241.4156	589.3834 $\pm$ 236.9269
run #1	64.0986 $\pm$ 254.6844	627.4091 $\pm$ 218.0095
run #2	614.0823 $\pm$ 263.4248	684.5754 $\pm$ 243.0923
run #3	632.7319 $\pm$ 218.5578	592.5679 $\pm$ 237.6972
mean	485.8420 $\pm$ 244.5206	623.4839 $\pm$ 233.9315

```
runs_involved=['1682846455_0', '1682846455_1', '1682846455_2',  
'1682846455_3', '1682980882_0', '1682980882_1', '1682980882_2',  
'1682980882_3']
```



experiment=parameter\_test\_442  
 experiments=['parameter\_experiment\_442']  
 algorithms=['TD3', 'SAC']  
 averaging window=100 (user assigned)



title	experiment_442:TD3	experiment_442:SAC
run #0	686.4359 ± 345.2868	760.4616 ± 291.1245
run #1	686.3810 ± 360.1809	764.2289 ± 318.6727
run #2	660.8539 ± 358.0809	698.0813 ± 327.8408
run #3	696.8699 ± 308.1457	743.9708 ± 318.2000
mean	682.6352 ± 342.9236	741.6857 ± 313.9595

```
runs_involved=['1682846457_0', '1682846457_1', '1682846457_2',  
'1682846457_3', '1682981272_0', '1682981272_1', '1682981272_2',  
'1682981272_3']
```

End of automated test report 2023-05-03 19:53:11