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Experiment Report

Start of automated test report 2023-04-30 10:34:32 Author=UNKNOWN@workstation obo Luke Vassallo

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

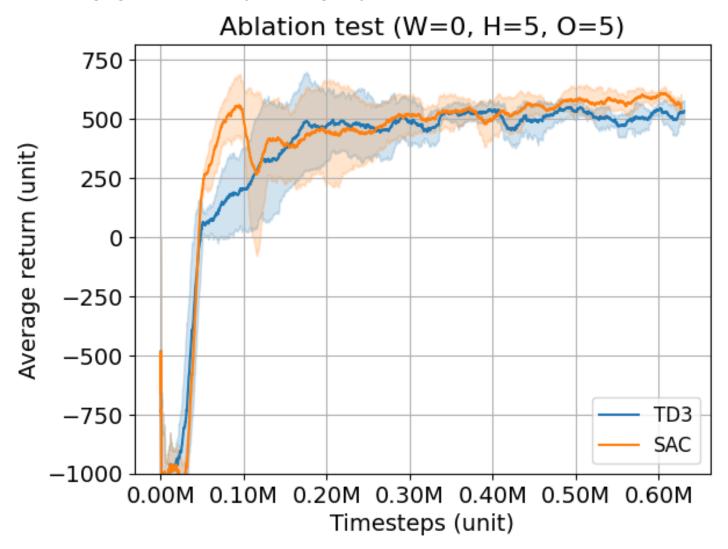
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Hpyerparameters

```
/home/luke/work/rl_pcb/experiments/02_ablation_experiments/hyperparame
ters/hp td3.json
learning_rate:0.001
buffer size:25000
n steps:2048
batch size:128
gamma: 0.99
net_arch:{'pi': [400, 300], 'qf': [400, 300]}
activation fn:relu
expl noise:0.1
tau:0.005
policy_noise:0.2
noise clip:0.5
policy_freq:2
/home/luke/work/rl pcb/experiments/02 ablation experiments/hyperparame
ters/hp sac.json
learning_rate:0.0003
buffer size:25000
n steps:2048
batch_size:256
gamma: 0.99
net_arch:{'pi': [400, 300], 'qf': [400, 300]}
activation_fn:relu
expl noise:0.1
tau:0.005
policy_noise:0.2
noise clip:0.5
policy_freq:1
```

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experiment=ablation_test_055 experiments=['ablation_experiment_055'] algorithms=['TD3', 'SAC'] averaging window=100 (user assigned)



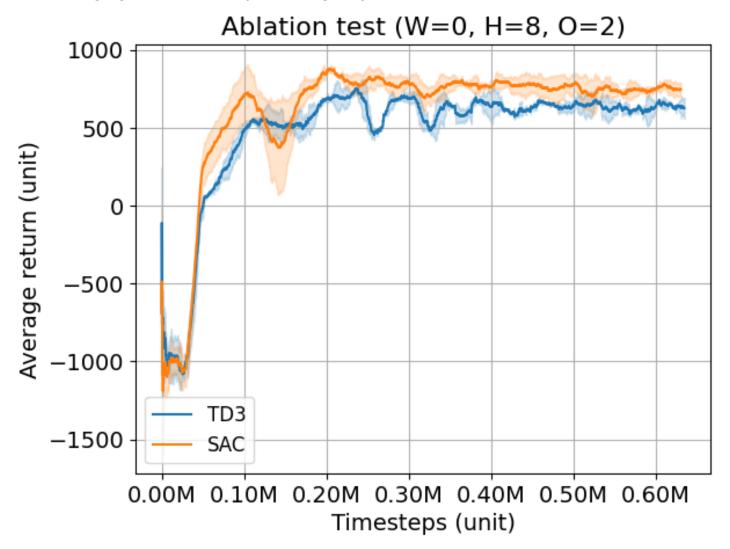
title	experiment_055:TD3	experiment_055:SAC
run #0	513.3878 ± 294.3194	581.2231 ± 178.1601
run #1	552.6828 ± 201.9170	592.7449 ± 360.0275
run #2	470.5475 ± 389.4666	544.4290 ± 192.8505
run #3	504.2425 ± 249.0558	594.2310 ± 197.2305
mean	510.2151 ± 283.6897	578.1570 ± 232.0672

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runs_involved=['1682487597_0', '1682487597_1', '1682487597_2', '1682487597_3', '1682619637_0', '1682619637_1', '1682619637_2', '1682619637_3']

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experiment=ablation_test_082 experiments=['ablation_experiment_082'] algorithms=['TD3', 'SAC'] averaging window=100 (user assigned)

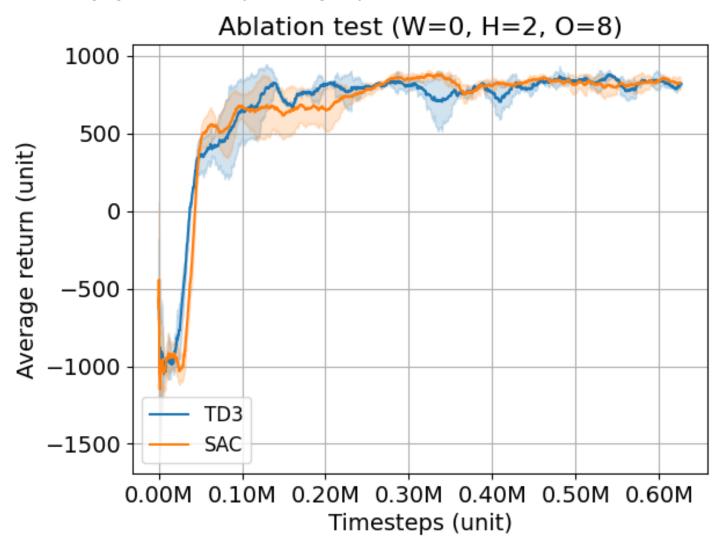


title	experiment_082:TD3	experiment_082:SAC
run #0	636.3289 ± 361.1505	753.3696 ± 435.8691
run #1	628.4005 ± 371.4958	788.1806 ± 409.2463
mean	632.3647 ± 366.3232	720.1121 ± 331.5190

runs_involved=['1682487599_1', '1682487599_2', '1682622426_0', '1682622426_1', '1682622426_2', '1682622426_3']

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experiment=ablation_test_028
experiments=['ablation_experiment_028']
algorithms=['TD3', 'SAC']
averaging window=100 (user assigned)

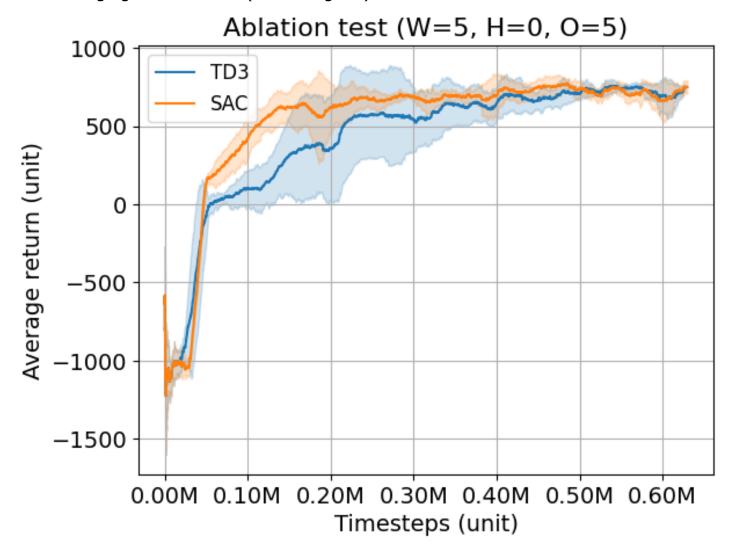


title	experiment_028:TD3	experiment_028:SAC
run #0	818.7556 ± 282.2463	839.0575 ± 213.7580
run #1	831.8785 ± 232.8948	820.1003 ± 278.8396
mean	825.3171 ± 257.5705	780.2335 ± 355.0220

runs_involved=['1682487601_2', '1682487601_3', '1682622818_0', '1682622818_1', '1682622818_2', '1682622818_3']

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experiment=ablation_test_505 experiments=['ablation_experiment_505'] algorithms=['TD3', 'SAC'] averaging window=100 (user assigned)



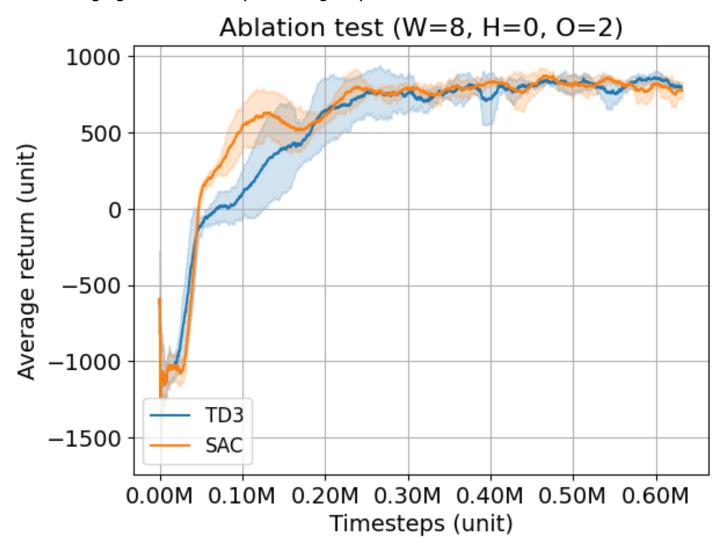
title	experiment_505:TD3	experiment_505:SAC
run #0	730.7985 ± 249.1331	749.9820 ± 304.1848
run #1	720.6429 ± 424.4268	668.2410 ± 455.3152
run #2	758.7773 ± 250.8956	697.3186 ± 355.3651
run #3	709.6923 ± 381.3612	735.4271 ± 355.3476
mean	729.9778 ± 326.4542	712.7422 ± 367.5532

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runs_involved=['1682487603_0', '1682487603_1', '1682487603_2', '1682487603_3', '1682623793_0', '1682623793_1', '1682623793_2', '1682623793_3']

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experiment=ablation_test_802 experiments=['ablation_experiment_802'] algorithms=['TD3', 'SAC'] averaging window=100 (user assigned)



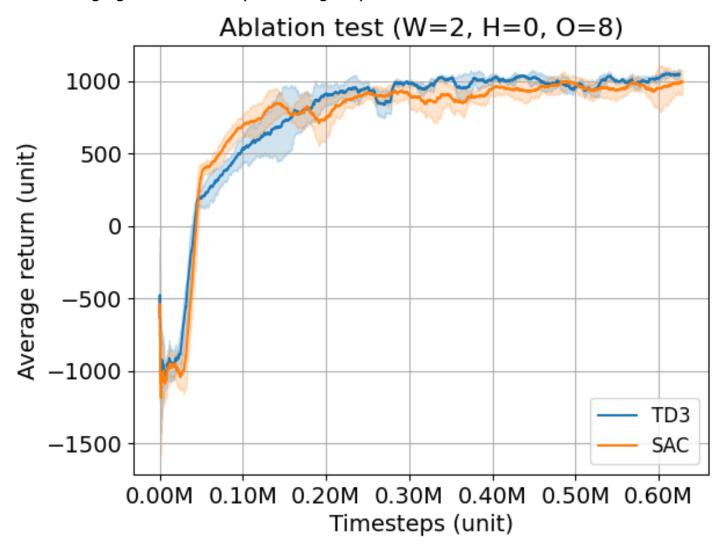
title	experiment_802:TD3	experiment_802:SAC
run #0	793.4320 ± 437.6586	783.4446 ± 400.2392
run #1	810.3348 ± 387.0244	836.9417 ± 343.7886
run #2	834.1376 ± 285.0222	813.8627 ± 303.6448
run #3	813.8350 ± 355.7976	777.0950 ± 380.0457
mean	812.9349 ± 366.3757	802.8360 ± 356.9296

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runs_involved=['1682487605_0', '1682487605_1', '1682487605_2', '1682487605_3', '1682624196_0', '1682624196_1', '1682624196_2', '1682624196_3']

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experiment=ablation_test_208 experiments=['ablation_experiment_208'] algorithms=['TD3', 'SAC'] averaging window=100 (user assigned)



title	experiment_208:TD3	experiment_208:SAC
run #0	1000.8976 ± 367.2534	1006.8231 ± 322.1968
run #1	1007.8708 ± 246.8230	877.7101 ± 376.1198
run #2	1015.0708 ± 269.6878	1028.2944 ± 279.5129
mean	1007.9465 ± 294.5880	942.5392 ± 248.7368

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runs_involved=['1682487607_1', '1682487607_2', '1682487607_3', '1682624534_0', '1682624534_1', '1682624534_2', '1682624534_3']

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End of automated test report 2023-04-30 10:34:49