

# Experiment Report

Start of automated test report 2023-05-23 15:50:33

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## Machine Information

sysname=Linux

nodename=workstation

release=5.19.0-41-generic

version=#42~22.04.1-Ubuntu SMP PREEMPT\_DYNAMIC Tue Apr 18 17:40:00 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 : 3.1.1

numpy : 1.23.3

pandas : 2.0.1

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

/home/gitlab-runner/builds/TfLwHVT9/0/luke/rl\_pcb/tests/05\_training\_td3\_cuda\_fast/hyperparameters/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

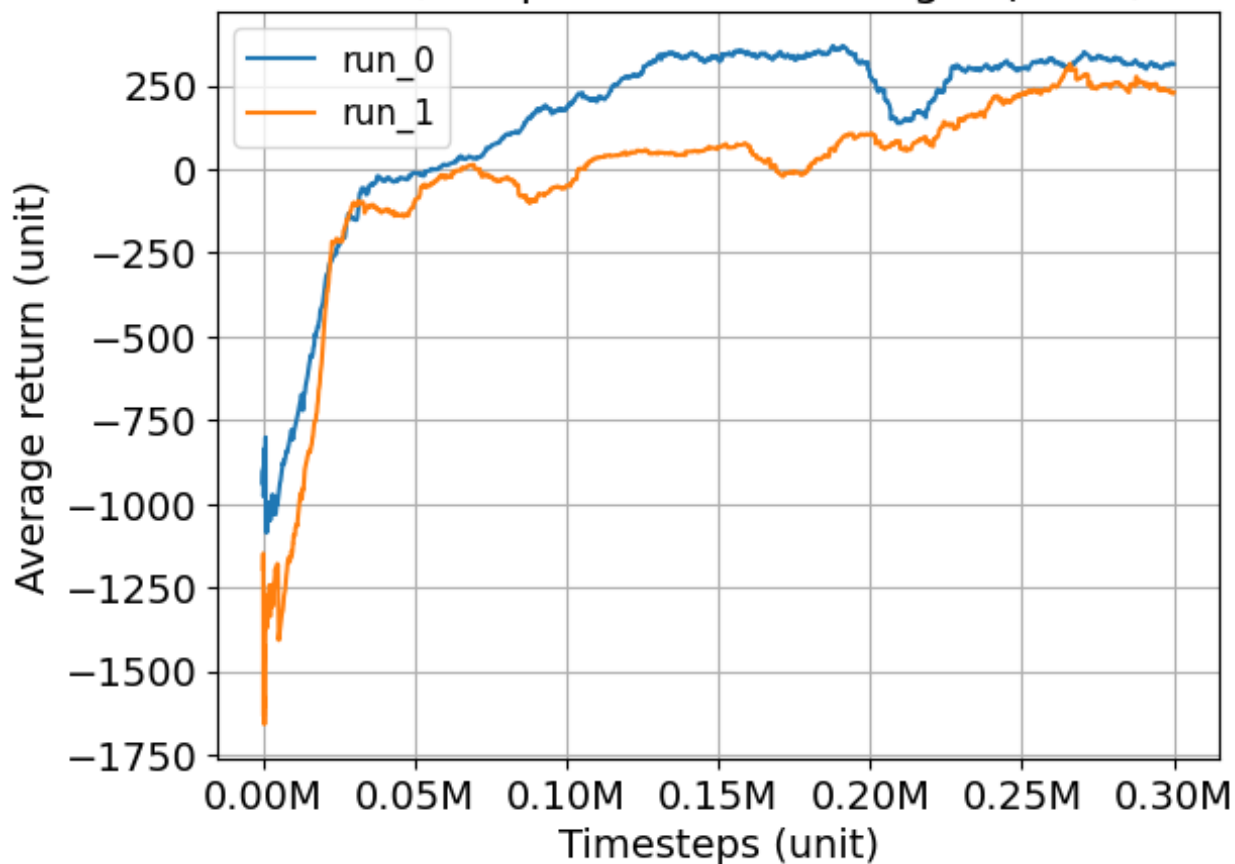
experiment=05\_training\_td3\_cuda\_fast\_262

experiments=['training\_td3\_cuda\_262']

algorithms=['TD3']

averaging window=100 (user assigned)

Parameter test w/ emphasis on wirelength (W=2, H=6, O=2)



title	td3_cuda_262:TD3
run #0	320.6061 ± 178.6565
run #1	240.5331 ± 359.0500
mean	280.5696 ± 268.8533

runs\_involved=['1684831023\_0', '1684831023\_1']

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