2024-08-19 07:03 Page 1 of 4

### **Experiment Report**

Start of automated test report 2024-08-19 07:03:06 Author=yu@LabYu obo YiFei Yu

#### **Machine Information**

sysname=Linux nodename=LabYu release=6.5.0-44-generic version=#44~22.04.1-Ubuntu SMP PREEMPT\_DYNAMIC Tue Jun 18 14:36:16 UTC 2 machine=x86\_64

CPU arch: X86\_64

CPU bits: 64

CPU brand: 11th Gen Intel(R) Core(TM) i7-1165G7 @ 2.80GHz

CPU cores: 2

CPU base clock: 2.8000 GHz CPU boost clock: 2.8032 GHz System Memory: 7.71GB

Without use Cuda

### **Library Information**

python: 3.8.19 torch: 1.13.1+cpu optuna: 3.2.0 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

2024-08-19 07:03 Page 2 of 4

# **Hpyerparameters**

 $/home/yu/Work/RL\_PCB-main/tests/10\_training\_dqn\_cpu\_fast/hyperparameters/hp\_ddpg.json$ 

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

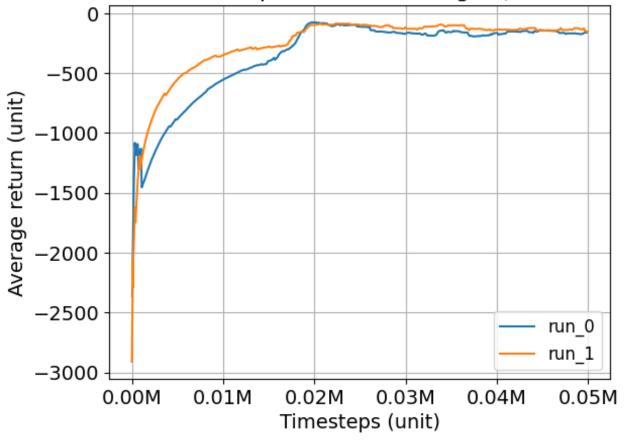
tau:0.005

policy\_noise:0.2
noise\_clip:0.5
policy\_freq:2

2024-08-19 07:03 Page 3 of 4

experiment=10\_training\_dqn\_cuda\_fast\_262 experiments=['training\_dqn\_cpu\_262'] algorithms=['DQN'] averaging window=100 (user assigned)

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



title	dqn_cpu_262:DQN
run #0	-132.1106 ± 358.4428
run #1	-156.8846 ± 400.6668
mean	-144.4976 ± 379.5548

runs\_involved=['1724003076\_0', '1724003076\_1']

2024-08-19 07:03 Page 4 of 4

End of automated test report 2024-08-19 07:03:08