

## File - main

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1 C:\Users\Salvo\AppData\Local\Microsoft\WindowsApps\python3.8.exe "C:/Users/Salvo/GitHub/MicroRacer_Corinaldesi_Fiorilla
  - Copy/ppo/main.py"
2 2022-01-31 09:22:14.724982: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
  library 'cudart64_110.dll'; dLError: cudart64_110.dll not found
3 2022-01-31 09:22:14.725150: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dLError if you do
  not have a GPU set up on your machine.
4 2022-01-31 09:22:17.904898: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
  library 'cudart64_110.dll'; dLError: cudart64_110.dll not found
5 2022-01-31 09:22:17.905173: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
  library 'cublas64_11.dll'; dLError: cublas64_11.dll not found
6 2022-01-31 09:22:17.905431: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
  library 'cublasLt64_11.dll'; dLError: cublasLt64_11.dll not found
7 2022-01-31 09:22:17.905901: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
  library 'cufft64_10.dll'; dLError: cufft64_10.dll not found
8 2022-01-31 09:22:17.906162: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
  library 'curand64_10.dll'; dLError: curand64_10.dll not found
9 2022-01-31 09:22:17.906414: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
  library 'cusolver64_11.dll'; dLError: cusolver64_11.dll not found
10 2022-01-31 09:22:17.906668: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
  library 'cusparse64_11.dll'; dLError: cusparse64_11.dll not found
11 2022-01-31 09:22:17.906923: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
  library 'cudnn64_8.dll'; dLError: cudnn64_8.dll not found
12 2022-01-31 09:22:17.907055: W tensorflow/core/common_runtime/gpu/gpu_device.cc:1835] Cannot dlopen some GPU libraries.
  Please make sure the missing libraries mentioned above are installed properly if you would like to use GPU. Follow the
  guide at https://www.tensorflow.org/install/gpu for how to download and setup the required libraries for your platform.
13 Skipping registering GPU devices...
14 2022-01-31 09:22:17.907513: I tensorflow/core/platform/cpu_feature_guard.cc:142] This TensorFlow binary is optimized
  with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical
  operations:  AVX AVX2
15 To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
16 Loading NN from: saved_model
17 CURRENT ACTOR-CRITC NETWORK IN USE
18 Model: "ActorNet"
19 -----
20 Layer (type)                Output Shape                Param #                    Connected to
21 -----
22 input_1 (InputLayer)        [(None, 5)]                 0                          (None, 5)
23 -----
24 acc_1 (Dense)               (None, 512)                3072                      input_1[0][0]
25 -----
26 dir_1 (Dense)              (None, 512)                3072                      input_1[0][0]
27 -----
28 acc_2 (Dense)              (None, 512)                262656                   acc_1[0][0]
29 -----
30 dir_2 (Dense)              (None, 512)                262656                   dir_1[0][0]
31 -----
32 acc_3 (Dense)              (None, 512)                262656                   acc_2[0][0]
33 -----
34 dir_3 (Dense)              (None, 512)                262656                   dir_2[0][0]
35 -----
36 acc_out_mu (Dense)         (None, 1)                   513                      acc_3[0][0]
37 -----
38 dir_out_mu (Dense)         (None, 1)                   513                      dir_3[0][0]
39 -----
40 concatenate (Concatenate)  (None, 2)                   0                          acc_out_mu[0][0]
41                                     dir_out_mu[0][0]
42 =====
43 Total params: 1,057,794
44 Trainable params: 1,057,794
45 Non-trainable params: 0
46 -----
47 Model: "CriticNet"
48 -----
49 Layer (type)                Output Shape                Param #                    Connected to
50 -----
51 input_2 (InputLayer)        [(None, 5)]                 0                          (None, 5)
52 -----
53 layer_1 (Dense)             (None, 512)                3072                      input_2[0][0]
54 -----
55 layer_2 (Dense)             (None, 512)                262656                   layer_1[0][0]
56 -----
57 layer_3 (Dense)             (None, 512)                262656                   layer_2[0][0]
58 -----
59 dense (Dense)              (None, 1)                   513                      layer_3[0][0]
60 =====
61 Total params: 528,897
62 Trainable params: 528,897
63 Non-trainable params: 0
64 -----
65 Loading NN from: saved_best_model
66 2022-01-31 09:22:19.631208: I tensorflow/compiler/mlir/mlir_graph_optimization_pass.cc:185] None of the MLIR
  Optimization Passes are enabled (registered 2)
67 2022-01-31 09:22:19.689146: W tensorflow/core/grappler/optimizers/loop_optimizer.cc:907] Skipping loop optimization for
  Merge node with control input: acceleration_norm/assert_positive/assert_less/Assert/AssertGuard/branch_executed/_18
68 completed
69 completed
70 completed
71 completed
72 completed

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73 completed
74 completed
75 completed
76 completed
77 completed
78 completed
79 test saved_best_model : mean steps : 161. mean rewards : -0.2193278670310974
80 loading NN from: saved_model
81 completed
82 completed
83 completed
84 completed
85 completed
86 test saved_best_model : mean steps : 120. mean rewards : -0.9573830366134644
87
88 Process finished with exit code 0
89
```