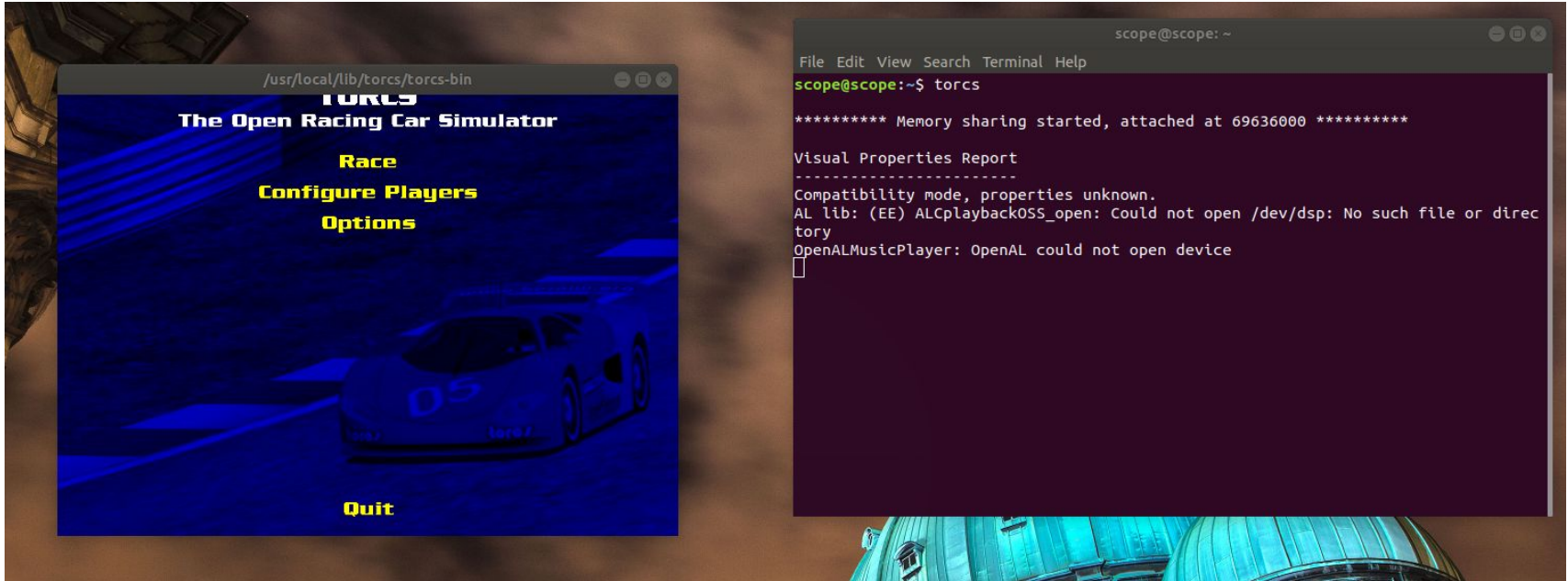


Setting Up Multi-Car Experiments with TORCS

Resilient Distributed Systems 2019

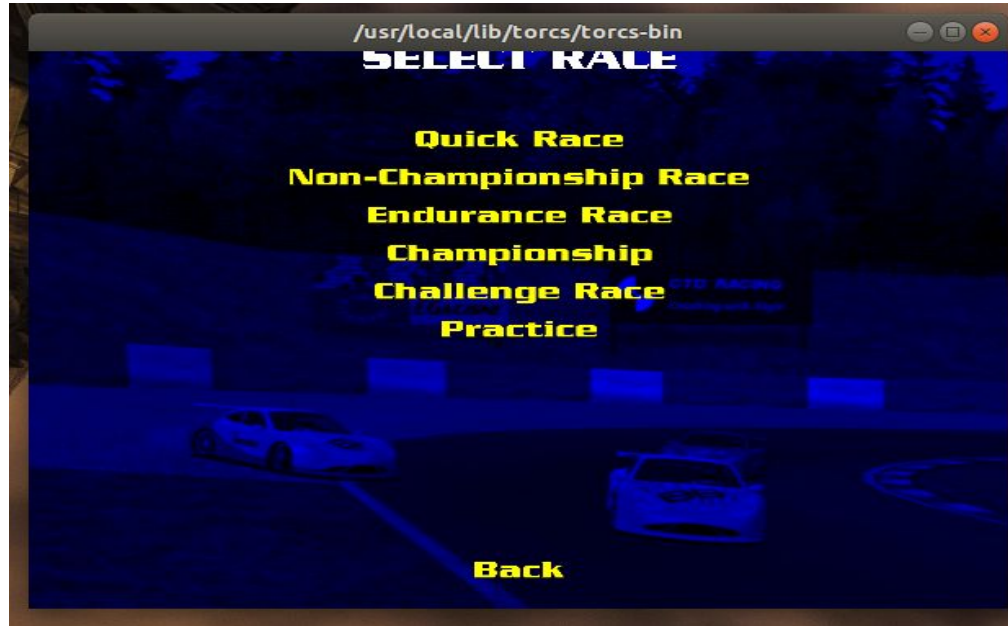
Start TORCS

- After installing TORCS <https://github.com/fmirus/torcs-1.3.7#torcs-137>
- Open a terminal (ctrl + alt + t) and type torcs.



Configure Race

- TORCS simulator opens up. Now select Race.
- Always keep the terminal open.
- Now select Configure Race.



Configure Race

- To set up multi-car experiment select Configure Race. (only first time)
- Next time onwards select New Race to start a new race.
- You only have to configure the Race once. You do not have to do it every single time.



Configure only once in the beginning

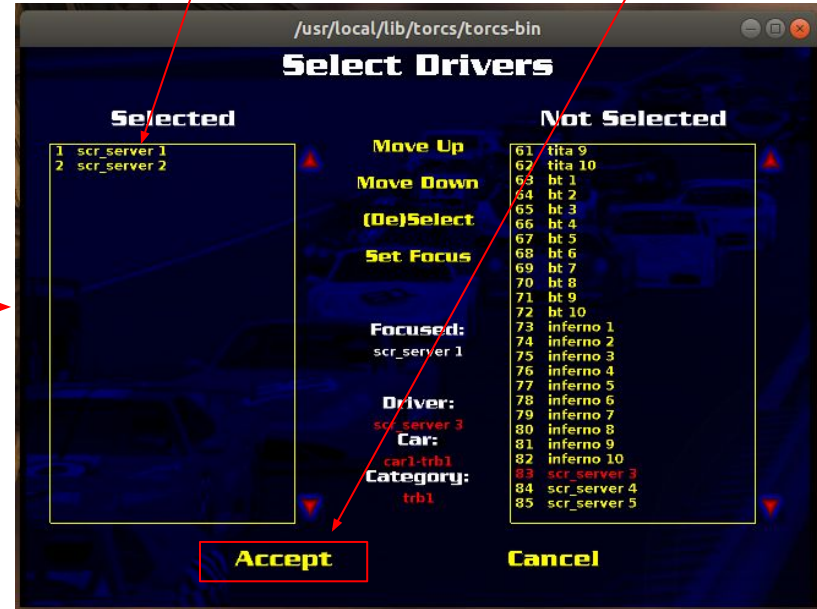
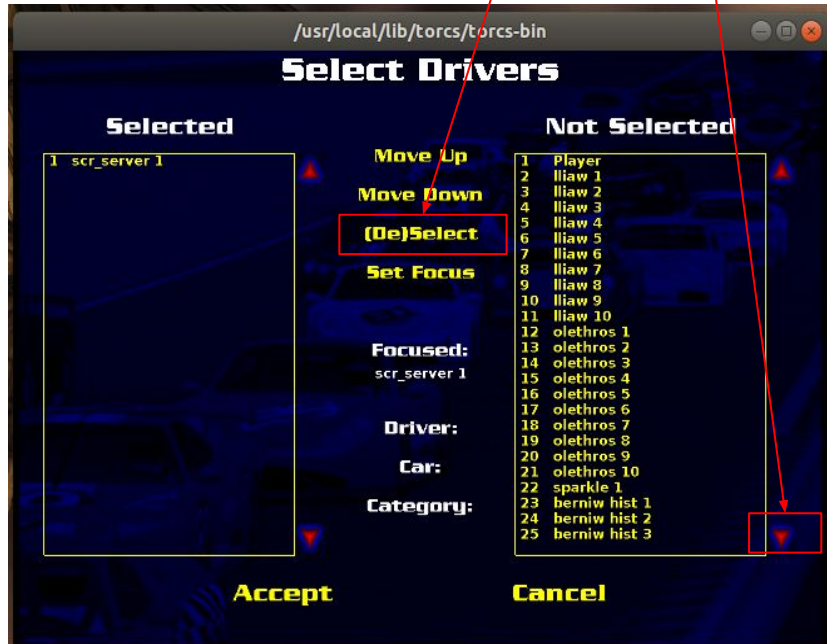
Select Track

- Select Forza track for the experiments.
- The PID controllers are tuned to work on this track.
- Select the Accept option.



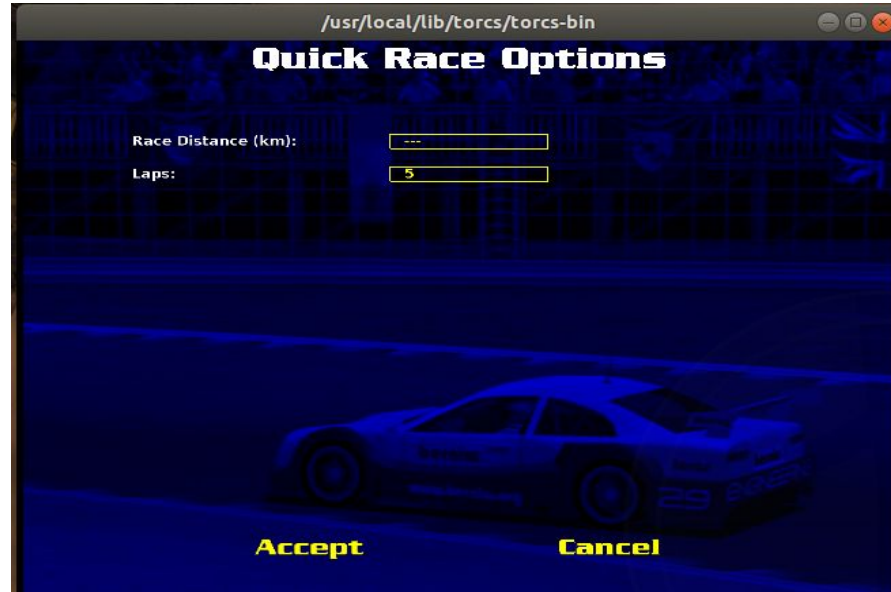
Select Multiple Cars

- Initially you will only have one car in the simulation.
- To add second car scroll down to select `scr_server2`.
- Then press (DE)Select.
- You will get `scr_server 2` listed under selected driver. Then select Accept.



Select Laps

- Now select the number of laps you want to race.
- Then press Accept.



Race

- You have finished the configuration. You can start the Race.
- Select New Race.
- You are now ready to use the simulator.



Start Racing

- To start racing open a new terminal and run your the Car.py script.
- This should get the simulator to work.
- To stop the simulation, select the simulation terminal and press esc.



```
scope@scope: ~/Shreyas/RDS/RDS19/TORCS/Assignment2
File Edit View Search Terminal Help

scope@scope:~$ cd Shreyas/R
RDS/ RL/
scope@scope:~$ cd Shreyas/RDS/RDS19
scope@scope:~/Shreyas/RDS/RDS19$ ls
Coursework TORCS
scope@scope:~/Shreyas/RDS/RDS19$ cd TORCS/
scope@scope:~/Shreyas/RDS/RDS19/TORCS$ ls
ACC.py Assignment2 Controller.py __pycache__
Assignment1 Car.py PICS TorcsEnv.py
scope@scope:~/Shreyas/RDS/RDS19/TORCS$ cd Assignment2/
scope@scope:~/Shreyas/RDS/RDS19/TORCS/Assignment2$ ls
Controller.py __pycache__ TorcsEnv.py ZMQPS.py ZMQRR.py
scope@scope:~/Shreyas/RDS/RDS19/TORCS/Assignment2$ python3 ZMQPS.py
Client connected on 3001.....
Waiting for server on 3002.....
Count Down : 5
Client connected on 3002.....
```