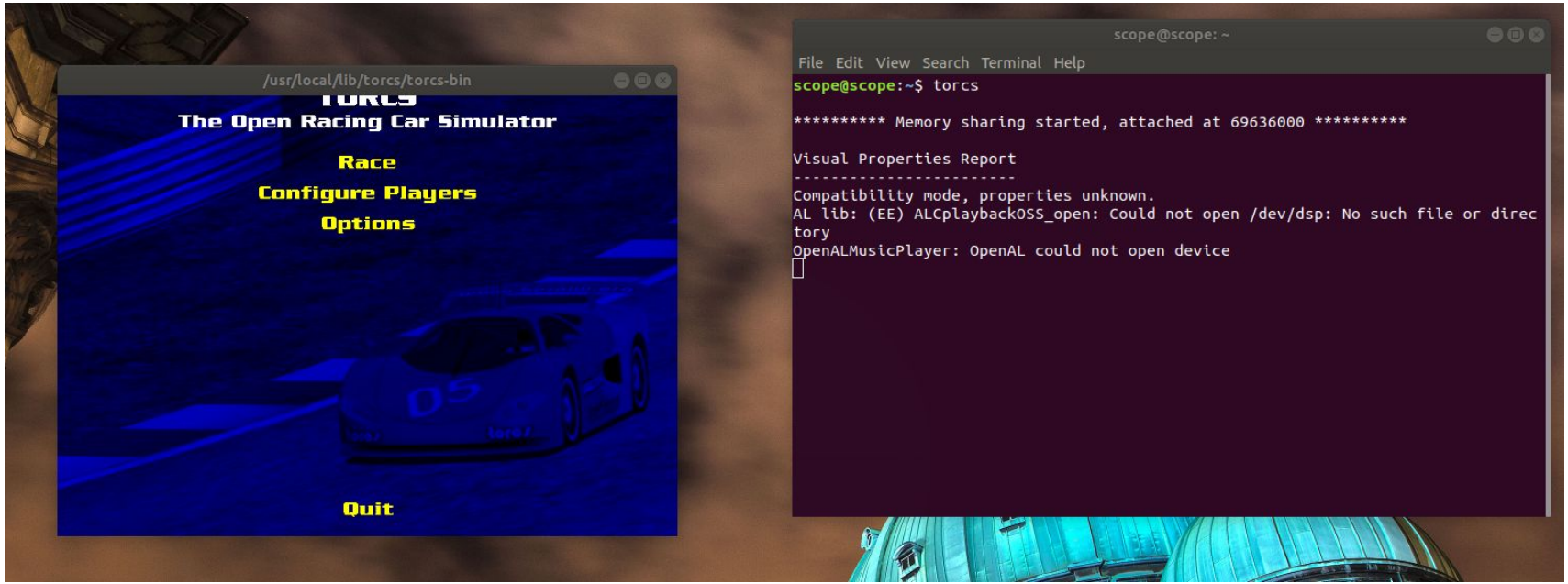
Setting Up Multi-Car Experiments with TORCS

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.

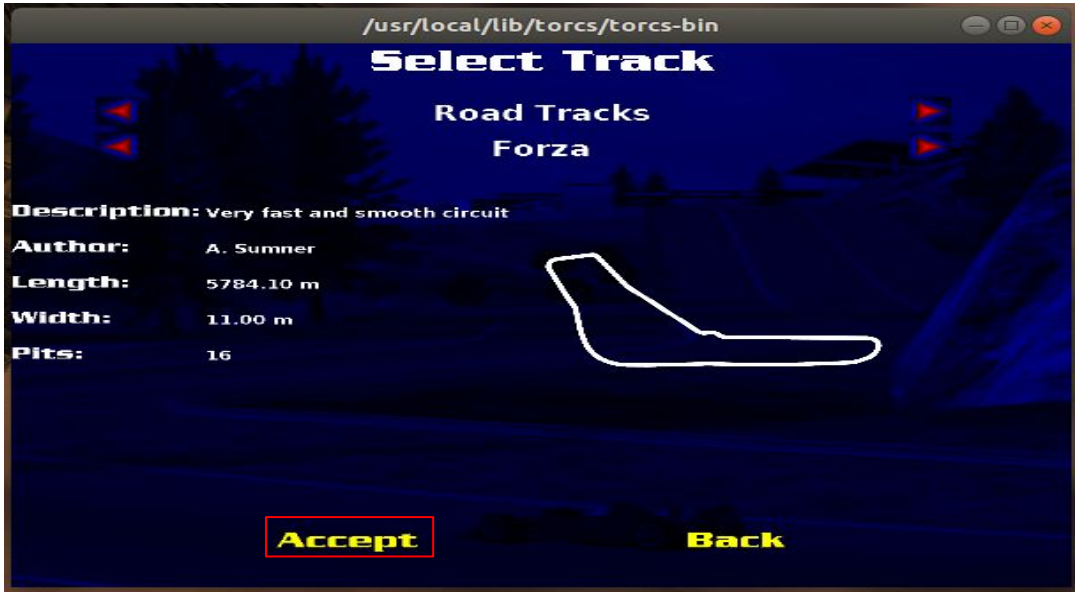
Configure Race

- 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

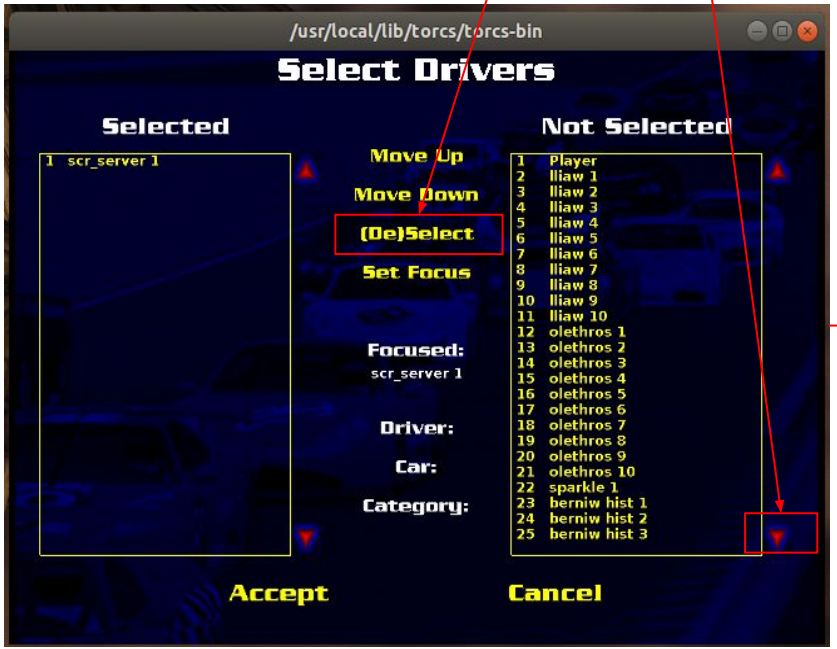
Select Track

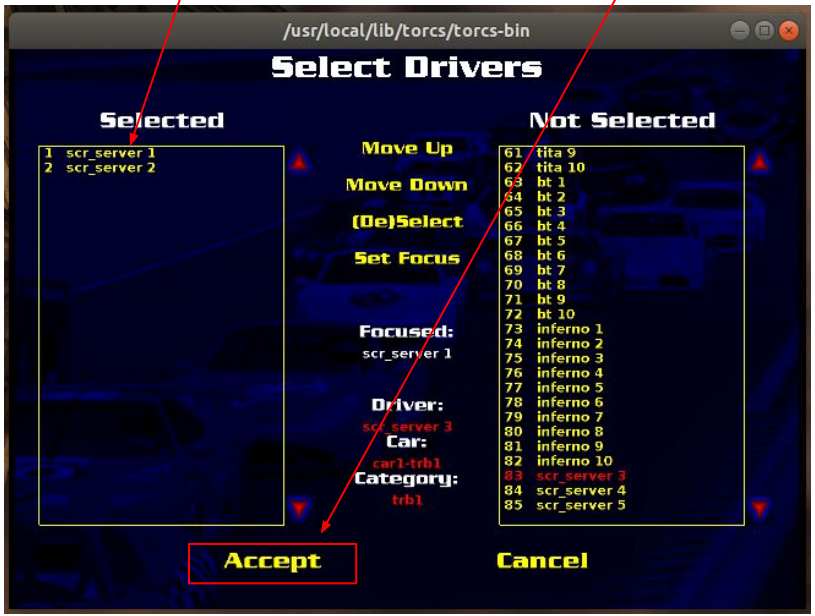
- Select Forza track for the experiments.
- The PID controllers are tuned to work on this track.
- Select the Accept option.



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)Delect.
- 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.