Readme for MOOS Codes

1. In directory "controller", there are following three files:

controller.cpp: calculate input of two motors

controller.moos: configuration file for controller.cpp, desiredTrajectory.cpp, and vehicle.cpp

CMakeLists.txt: a file for compiling controller.cpp

2. In directory "desiredTrajectory", there are following three files:

desiredTrajectory.cpp: calculate the desired trajectory and its derivative

controller.moos: this file is the same file as the file in the directory "controller"

CMakeLists.txt: a file for compiling desiredTrajectory.cpp

3. In directory "vehicle", there are following three files:

vehicle.cpp: simulate the dynamics of the vehicle

controller.moos: this file is the same file as the file in the directory "controller"

CMakeLists.txt: a file for compiling vehicle.cpp

To run these codes, you can do as follows.

- 1. In a terminal, go to directory "build" and run following command ccmake ../src
- 2. Run the command
- 3. Run the following commands in different terminals
 - ./MOOSDB
 - ./desiredTrajectory controller.moos
 - ./vehicle controller.moos
 - ./controller controller.moos