URDF Mobile Robot and Movelt! Controlled Robot Arm

How to Install Movelt! on ROS Melodic

It seems there is a bug in installing Movelt! package on ROS Melodic via its binary packages, which has not been resolved by the ROS community. Therefore, the installation method presented on Part II might not work. I tried the binary installation in August 2020 which was successful. However, I tried it again recently but failed with a bug, no resolution suggested by the community. I suggest the following installation.

An alternative way is to install the source files of Movelt package and then compile it. I am successful in this way on 27/10/2020, and summarise the steps shown below.

```
\$ cd ^{\sim}
$ mkdir ws moveit
$ cd ~/ws_moveit
$ wstool init src
$ wstool merge -t src https://raw.githubusercontent.com/ros-planning/
moveit/master/moveit.rosinstall
$ wstool update -t src
$ rosdep install -y --from-paths src --ignore-src --rosdistro ${ROS D
ISTRO}
$ sudo apt-get install ros-$ROS_DISTRO-catkin python-catkin-tools
$ catkin config --extend /opt/ros/${ROS DISTRO} --cmake-args -DCMAKE
BUILD_TYPE=Release
$ cd ~/ws moveit/src
$ git clone https://github.com/Zhijun2/robot_description.git
$ cd ...
$ catkin build
$ source devel/setup. bash
```

The above steps should install ROS Movelt! package successfully in your virtual machine.

The process will take a little bit more than 1 hour.

Make sure you can install the package better before our Thursday session. We can discuss any questions in WhatsApp. Good luck!