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malik@malik-virtual-machine: ~/catkin_ws
-- Required is "3"
-- Using PYTHON_EXECUTABLE: /usr/bin/python3
-- Using Debian Python package layout
-- Found PY_em: /usr/lib/python3/dist-packages/em.py
-- Using empy: /usr/lib/python3/dist-packages/em.py
-- Using CATKIN_ENABLE_TESTING: ON
-- Call enable_testing()
-- Using CATKIN_TEST_RESULTS_DIR: /home/malik/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/googletest': gtests will be built
-- Found gmock sources under '/usr/src/googletest': gmock will be built
-- Found PythonInterp: /usr/bin/python3 (found version "3.8.10")
-- Found Threads: TRUE
-- Using Python nosetests: /usr/bin/nosetests3
-- catkin 0.8.10
-- BUILD_SHARED_LIBS is on
-- BUILD_SHARED_LIBS is on
-- Configuring done
-- Generating done
-- Build files have been written to: /home/malik/catkin_ws/build
#####
##### Running command: "make -j4 -l4" in "/home/malik/catkin_ws/build"
#####
malik@malik-virtual-machine:~/catkin_ws$
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malik@malik-virtual-machine: ~/catkin_ws
Setting up libroscpp-serialization0d:amd64 (0.6.13-1build1) ...
Setting up libxmlrpcpp2d:amd64 (1.14.3+ds1-11ubuntu5) ...
Setting up python3-catkin (0.8.0-1ubuntu2) ...
Setting up libtf2-1d:amd64 (0.6.6-1build3) ...
Setting up libroscpp3d:amd64 (1.13.11-3build4) ...
Setting up libroscpp2d:amd64 (1.14.3+ds1-11ubuntu5) ...
Setting up python3-rosCPP-msgs (1.14.3+ds1-11ubuntu5) ...
Setting up python3-rosgraph-msgs (1.11.2-10) ...
Setting up python3-geometry-msgs (1.12.7-2) ...
Setting up libroscpp-bridge0d:amd64 (0.5.3-1build1) ...
Setting up libactionlib0d:amd64 (1.12.0-4ubuntu1) ...
Setting up python3-roslib (1.14.7-3build2) ...
Setting up python3-rospy (1.14.3+ds1-11ubuntu5) ...
Setting up python3-sensor-msgs (1.12.7-2) ...
Setting up liburdf0d:amd64 (1.13.1-2build1) ...
Setting up joint-state-publisher (1.12.14-1) ...
Setting up libtf2-ros0d:amd64 (0.6.6-1build3) ...
Setting up libtf1d:amd64 (1.12.0-6ubuntu3) ...
Setting up libkdl-parser1d:amd64 (1.13.1-2build1) ...
Setting up joint-state-publisher-gui (1.12.14-1) ...
Setting up librobot-state-publisher-solver0d:amd64 (1.14.0-3build1) ...
Setting up ros-robot-state-publisher (1.14.0-3build1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
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mallik@malik-virtual-machine: ~/catkin_ws
Setting up python3-rospy (1.14.3+ds1-11ubuntu5) ...
Setting up python3-sensor-msgs (1.12.7-2) ...
Setting up liburdf0d:amd64 (1.13.1-2build1) ...
Setting up joint-state-publisher (1.12.14-1) ...
Setting up libtf2-ros0d:amd64 (0.6.6-1build3) ...
Setting up libtf1d:amd64 (1.12.0-6ubuntu3) ...
Setting up libkdl-parser1d:amd64 (1.13.1-2build1) ...
Setting up librobot-state-publisher-solver0d:amd64 (1.14.0-3build1) ...
Setting up ros-robot-state-publisher (1.14.0-3build1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
malik@malik-virtual-machine:~/catkin_ws$ sudo apt-get install ros-noetic-joint-state-publisher ros-noetic-joint-state-publisher-gui
Reading package lists... Done
Building dependency tree
Reading state information... Done
ros-noetic-joint-state-publisher is already the newest version (1.15.0-1focal.20210423.233825).
ros-noetic-joint-state-publisher set to manually installed.
ros-noetic-joint-state-publisher-gui is already the newest version (1.15.0-1focal.20210423.235430).
ros-noetic-joint-state-publisher-gui set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 216 not upgraded.
malik@malik-virtual-machine:~/catkin_ws$
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Player | II | □ | Terminal | 22:03 بولو 4
Activities Terminal
malik@malik-virtual-machine: ~/catkin_ws
Setting up ros-noetic-combined-robot-hw (0.19.5-1focal.20210616.194807) ...
Setting up ros-noetic-ackermann-steering-controller (0.19.0-1focal.20210616.194416) ...
Setting up ros-noetic-joint-trajectory-controller (0.19.0-1focal.20210616.194107) ...
Setting up ros-noetic-imu-sensor-controller (0.19.0-1focal.20210616.194438) ...
Setting up ros-noetic-effort-controllers (0.19.0-1focal.20210616.195151) ...
Setting up ros-noetic-ros-control (0.19.5-1focal.20210616.195205) ...
Setting up ros-noetic-ros-controllers (0.19.0-1focal.20210616.195513) ...
malik@malik-virtual-machine:~/catkin_ws$ sudo nano ~/.bashrc
malik@malik-virtual-machine:~/catkin_ws$ roslaunch robot_arm_pkg check_motors.launch
RLException: [check_motors.launch] is neither a launch file in package [robot_arm_pkg] nor is [robot_arm_pkg] a launch file name
The traceback for the exception was written to the log file
malik@malik-virtual-machine:~/catkin_ws$ source /opt/ros/kinetic/setup.bash
bash: /opt/ros/kinetic/setup.bash: No such file or directory
malik@malik-virtual-machine:~/catkin_ws$ source /opt/ros/noetic/setup.bash
malik@malik-virtual-machine:~/catkin_ws$ cd ~/catkin_ws/
malik@malik-virtual-machine:~/catkin_ws$ source devel/setup.bash
malik@malik-virtual-machine:~/catkin_ws$ source ~/.bashrc
bash: /opt/ros/kinetic/setup.bash: No such file or directory
malik@malik-virtual-machine:~/catkin_ws$ source ~/.bashrc
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Player | || | Activities Terminal 22:03 4 يولو

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/home/malik/catkin_ws/src/arduino_robot_arm/robot_arm_p...
* /rosdistro: noetic
* /rosversion: 1.15.11

NODES
/
joint_state_publisher_gui (joint_state_publisher/joint_state_publisher_g
ui)
robot_state_publisher (robot_state_publisher/state_publisher)
rviz (rviz/rviz)

auto-starting new master
process[master]: started with pid [46692]
ROS_MASTER_URI=http://localhost:11311

setting /run_id to 89457dda-dcfa-11eb-b46b-157d4c51e04c
process[rosout-1]: started with pid [46702]
started core service [/rosout]
ERROR: cannot launch node of type [robot_state_publisher/state_publisher]: Cannot
locate node of type [state_publisher] in package [robot_state_publisher]. Make
sure file exists in package path and permission is set to executable (chmod +x)
process[rviz-3]: started with pid [46705]
process[joint_state_publisher_gui-4]: started with pid [46706]
[INFO] [1625425422.227538]: Centering
```

malik@malik-virtual-machine: ~/catkin\_ws/src

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-- Found gmock sources under '/usr/src/googletest': gmock will be built
-- Found PythonInterp: /usr/bin/python3 (found version "3.8.10")
-- Found Threads: TRUE
-- Using Python nosetests: /usr/bin/nosetests3
-- catkin 0.8.10
-- BUILD_SHARED_LIBS is on
-- BUILD_SHARED_LIBS is on
-- Configuring done
-- Generating done
-- Build files have been written to: /home/malik/catkin_ws/build
#####
##### Running command: "make -j4 -l4" in "/home/malik/catkin_ws/build"
#####
malik@malik-virtual-machine:~/catkin_ws$ cd ~/catkin_ws/src
malik@malik-virtual-machine:~/catkin_ws/src$ git clone https://github.com/smart-
methods/arduino_robot_arm.git
Cloning into 'arduino_robot_arm'...
remote: Enumerating objects: 173, done.
remote: Counting objects: 100% (65/65), done.
remote: Compressing objects: 100% (65/65), done.
remote: Total 173 (delta 32), reused 0 (delta 0), pack-reused 108
Receiving objects: 100% (173/173), 1.23 MiB | 1.85 MiB/s, done.
Resolving deltas: 100% (61/61), done.
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malik@malik-virtual-machine: ~
Hit https://raw.githubusercontent.com/ros/rosdistro/master/rosdep/base.yaml
Hit https://raw.githubusercontent.com/ros/rosdistro/master/rosdep/python.yaml
Hit https://raw.githubusercontent.com/ros/rosdistro/master/rosdep/ruby.yaml
Query rosdistro index https://raw.githubusercontent.com/ros/rosdistro/master/index-v4.yaml
Skip end-of-life distro "ardent"
Skip end-of-life distro "bouncy"
Skip end-of-life distro "crystal"
Skip end-of-life distro "dashing"
Skip end-of-life distro "eloquent"
Add distro "foxy"
Add distro "galactic"
Skip end-of-life distro "groovy"
Skip end-of-life distro "hydro"
Skip end-of-life distro "indigo"
Skip end-of-life distro "jade"
Skip end-of-life distro "kinetic"
Skip end-of-life distro "lunar"
Add distro "melodic"
Add distro "noetic"
Add distro "rolling"
updated cache in /home/malik/.ros/rosdep/sources.cache
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Activities Terminal 21:21 4
malik@malik-virtual-machine: ~
Setting up libgtk-3-dev:amd64 (3.24.20-0ubuntu1) ...
Setting up ros-noetic-gazebo-dev (2.9.2-1focal.20210423.224909) ...
Setting up ros-noetic-rviz-plugin-tutorials (0.11.0-1focal.20210621.185730) ...
Setting up ros-noetic-visualization-tutorials (0.11.0-1focal.20210621.190602) ...
.
Setting up ros-noetic-gazebo-ros (2.9.2-1focal.20210424.001031) ...
Setting up ros-noetic-gazebo-ros-control (2.9.2-1focal.20210616.194745) ...
Setting up ros-noetic-pcl-conversions (1.7.2-1focal.20210424.000016) ...
Setting up ros-noetic-viz (1.5.0-1focal.20210622.170522) ...
Setting up ros-noetic-image-view (1.15.3-1focal.20210424.000206) ...
Setting up ros-noetic-image-pipeline (1.15.3-1focal.20210424.000933) ...
Setting up ros-noetic-desktop (1.5.0-1focal.20210622.170818) ...
Setting up ros-noetic-urdf-sim-tutorial (0.5.1-1focal.20210621.190224) ...
Setting up ros-noetic-pcl-ros (1.7.2-1focal.20210424.000906) ...
Setting up ros-noetic-gazebo-plugins (2.9.2-1focal.20210424.001717) ...
Setting up ros-noetic-gazebo-ros-pkgs (2.9.2-1focal.20210424.004244) ...
Setting up ros-noetic-perception-pcl (1.7.2-1focal.20210424.003621) ...
Setting up ros-noetic-simulators (1.5.0-1focal.20210622.170405) ...
Setting up ros-noetic-perception (1.5.0-1focal.20210424.004413) ...
Setting up ros-noetic-desktop-full (1.5.0-1focal.20210622.171109) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
malik@malik-virtual-machine:~$
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