

ICRA2024_QRC_Simulation_Map

1. arnav@arnav-virtual-machine:~/Desktop\$ docker start ros1_container
2. arnav@arnav-virtual-machine:~/Desktop\$ docker ps
3. arnav@arnav-virtual-machine:~/Desktop\$ docker run -it --rm --net=host --privileged osrf/ros:noetic-desktop-full
4. root@arnav-virtual-machine:/# apt update
root@arnav-virtual-machine:/# mkdir -p ~/catkin_ws/src
root@arnav-virtual-machine:/# cd ~/catkin_ws/src
5. root@arnav-virtual-machine:/# apt install git
root@arnav-virtual-machine:~/catkin_ws/src# git clone https://github.com/teamgrit-lab/ICRA2024_Quadrupe Robot Challenges.git
6. root@arnav-virtual-machine:~/catkin_ws/src# cd ~/catkin_ws/src
root@arnav-virtual-machine:~/catkin_ws/src# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
7. root@arnav-virtual-machine:~/catkin_ws# mv
~/catkin_ws/src/ICRA2024_Quadrupe Robot_Challenges
~/catkin_ws/src/icra2024_quadrupe_robot_challenges
root@arnav-virtual-machine:~/catkin_ws# mv
~/catkin_ws/src/icra2024_quadrupe_robot_challenges/ICRA2024_QRC_Simulation_Map
~/catkin_ws/src/icra2024_quadrupe_robot_challenges/icra2024_qrc_simulation_map
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
8. root@arnav-virtual-machine:~/catkin_ws# apt install nano
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_quadrupe_robot_challenges/package.xml
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_quadrupe_robot_challenges/CMakeLists.txt
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# roslaunch
icra2024_quadrupe_robot_challenges
icra2024_qrc_simulation_map/launch/gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# rospack list | grep icra

```

9. root@arnav-virtual-machine:~/catkin_ws# mv
~/catkin_ws/src/ICRA2024_Quadruped_Competition
~/catkin_ws/src/icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# rospack profile

10. root@arnav-virtual-machine:~/catkin_ws# mv
~/catkin_ws/src/icra2024_quadruped_robot_challenges
~/catkin_ws/src/icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_quadruped_robot_challenges/package.xml
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_quadruped_competition/CMakeLists.txt
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# find
~/catkin_ws/src/icra2024_quadruped_competition/ -name "*.launch"
/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map/
launch/gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# nano
/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map/
launch/gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# roslaunch
/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map/
launch/gazebo_world.launch

11. root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws/src
root@arnav-virtual-machine:~/catkin_ws/src# ls
CMakeLists.txt icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws/src# cd icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_quadruped_competition# ls
README.md docs icra2024_qrc_simulation_map iee-qrc-2024-device_code
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_quadruped_competition# cd
icra2024_qrc_simulation_map
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_quadruped_competition/icra20
24_qrc_simulation_map# ls
CMakeLists.txt          doc          package.xml Zone.Identifier
CMakeLists.txtZone.Identifier launch      urdf
README.md               meshes      worlds
README.mdZone.Identifier package.xml
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_quadruped_competition/icra20
24_qrc_simulation_map# ls launch
gazebo_world.launch gazebo_world.launchZone.Identifier
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_quadruped_competition/icra20
24_qrc_simulation_map# find . -name '*:Zone.Identifier' -exec rm {} \;
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_quadruped_competition/icra20
24_qrc_simulation_map# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make

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root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# export
ROS_PACKAGE_PATH=$ROS_PACKAGE_PATH:/root/catkin_ws/src
root@arnav-virtual-machine:~/catkin_ws# export
ROS_PACKAGE_PATH=$ROS_PACKAGE_PATH:/root/catkin_ws/src/icra2024_quad
ruped_competition
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# rospack list | grep icra
icra2024_quadruped_competition /root/catkin_ws/src/icra2024_qrc_simulation_map
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
launch/gazebo_world.launch
RLEException: [launch/gazebo_world.launch] is neither a launch file in package
[icra2024_qrc_simulation_map] nor is [icra2024_qrc_simulation_map] a launch file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# roslaunch
/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map/launch/
gazebo_world.launch
RLEException:
[/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map/launch/
gazebo_world.launch] is not a launch file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# icra2024_quadruped_competition
/root/catkin_ws/src/icra2024_qrc_simulation_map
bash: icra2024_quadruped_competition: command not found
root@arnav-virtual-machine:~/catkin_ws# ls
/root/catkin_ws/src/icra2024_quadruped_competition
README.md docs ieee-qrc-2024-device_code
root@arnav-virtual-machine:~/catkin_ws# cd
/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map
bash: cd:
/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map: No
such file or directory
root@arnav-virtual-machine:~/catkin_ws# touch package.xml
root@arnav-virtual-machine:~/catkin_ws# ls
/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map/launch
ls: cannot access
'/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map/launch':
No such file or directory
root@arnav-virtual-machine:~/catkin_ws# ls
/root/catkin_ws/src/icra2024_quadruped_competition
README.md docs ieee-qrc-2024-device_code
root@arnav-virtual-machine:~/catkin_ws# ls
/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map
ls: cannot access
'/root/catkin_ws/src/icra2024_quadruped_competition/icra2024_qrc_simulation_map': No
such file or directory
root@arnav-virtual-machine:~/catkin_ws# rospack list | grep icra
icra2024_quadruped_competition /root/catkin_ws/src/icra2024_qrc_simulation_map

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root@arnav-virtual-machine:~/catkin_ws# find /root/catkin_ws/src -name
"gazebo_world.launch"
/root/catkin_ws/src/icra2024_qrc_simulation_map/launch/gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
The specified base path "/root/catkin_ws" contains a package but "catkin_make" must be
invoked in the root of workspace
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
RLEException: [gazebo_world.launch] is neither a launch file in package
[icra2024_qrc_simulation_map] nor is [icra2024_qrc_simulation_map] a launch file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# ls
/root/catkin_ws/src/icra2024_qrc_simulation_map
CMakeLists.txt          doc          package.xmlZone.Identifier
CMakeLists.txtZone.Identifier launch      urdf
README.md              meshes      worlds
README.mdZone.Identifier package.xml
root@arnav-virtual-machine:~/catkin_ws# export
ROS_PACKAGE_PATH=$ROS_PACKAGE_PATH:/root/catkin_ws/src
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
The specified base path "/root/catkin_ws" contains a package but "catkin_make" must be
invoked in the root of workspace
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# ls
build devel package.xml src
root@arnav-virtual-machine:~/catkin_ws# cd ..
root@arnav-virtual-machine:~# ls
catkin_ws
root@arnav-virtual-machine:~# catkin_make
Base path: /root
The specified source space "/root/src" does not exist
root@arnav-virtual-machine:~# rospack list | grep icra
icra2024_quadruped_competition /root/catkin_ws/src/icra2024_qrc_simulation_map
root@arnav-virtual-machine:~# rm ~/catkin_ws/package.xml
root@arnav-virtual-machine:~# mv ~/catkin_ws/icra2024_quadruped_competition
~/catkin_ws/src/
mv: cannot stat '/root/catkin_ws/icra2024_quadruped_competition': No such file or directory
root@arnav-virtual-machine:~# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src

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Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
RLEException: [gazebo_world.launch] is neither a launch file in package
[icra2024_qrc_simulation_map] nor is [icra2024_qrc_simulation_map] a launch file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src/icra2024_qrc_simulation_map
CMakeLists.txt          doc          package.xmlZone.Identifier
CMakeLists.txtZone.Identifier launch      urdf
README.md               meshes      worlds
README.mdZone.Identifier package.xml
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# echo "source ~/catkin_ws/devel/setup.bash" >>
~/bashrc
root@arnav-virtual-machine:~/catkin_ws# source ~/.bashrc
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
RLEException: [gazebo_world.launch] is neither a launch file in package
[icra2024_qrc_simulation_map] nor is [icra2024_qrc_simulation_map] a launch file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws/src/icra2024_qrc_simulation_map

```

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root@arnav-virtual-machine:~/catkin_ws/src/icra2024_qrc_simulation_map# rm
*:Zone.Identifier
rm: cannot remove '*:Zone.Identifier': No such file or directory
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_qrc_simulation_map# rm
:Zone.Identifier
rm: cannot remove ':Zone.Identifier': No such file or directory
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_qrc_simulation_map# rm
Zone.Identifier
rm: cannot remove 'Zone.Identifier': No such file or directory
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_qrc_simulation_map# rospack find
icra2024_qrc_simulation_map
[rospack] Error: package 'icra2024_qrc_simulation_map' not found
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_qrc_simulation_map# ls
~/catkin_ws/src/icra2024_qrc_simulation_map/launch
gazebo_world.launch gazebo_world.launchZone.Identifier
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_qrc_simulation_map# roslaunch
~/catkin_ws/src/icra2024_qrc_simulation_map/launch/gazebo_world.launch
... logging to
/root/.ros/log/b140300e-08cb-11f0-b784-000c298e822d/roslaunch-arnav-virtual-machine-20
03.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

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Resource not found: ICRA2024_Quadruped_Competition
ROS path [0]=/opt/ros/noetic/share/ros
ROS path [1]=/root/catkin_ws/src
ROS path [2]=/opt/ros/noetic/share
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_qrc_simulation_map# find
~/catkin_ws/src/icra2024_qrc_simulation_map -name '*Zone.Identifier' -exec rm {} +
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_qrc_simulation_map# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# rospack find icra2024_qrc_simulation_map
[rospack] Error: package 'icra2024_qrc_simulation_map' not found

```

```

root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_qrc_simulation_map/launch/gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
RLEException: [gazebo_world.launch] is neither a launch file in package
[icra2024_qrc_simulation_map] nor is [icra2024_qrc_simulation_map] a launch file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws/src/icra2024_qrc_simulation_map
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_qrc_simulation_map# cat
package.xml | grep "<name>"
<name>icra2024_quadruped_competition</name>
root@arnav-virtual-machine:~/catkin_ws/src/icra2024_qrc_simulation_map# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws
build devel src
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src/icra2024_qrc_simulation_map
CMakeLists.txt README.md doc launch meshes package.xml urdf worlds
root@arnav-virtual-machine:~/catkin_ws# ls
~/catkin_ws/src/icra2024_quadruped_competition
README.md docs ieee-qrc-2024-device_code
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# rm -rf build devel
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel

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-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
####
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': 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
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_quadruped_competition
-- ~~~~~
-- +++ processing catkin package: 'icra2024_quadruped_competition'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####

```


Running command: "make -j2 -l2" in "/root/catkin_ws/build"

####

root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash

root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/devel

_setup_util.py env.sh local_setup.bash local_setup.zsh setup.sh share

cmake.lock lib local_setup.sh setup.bash setup.zsh

root@arnav-virtual-machine:~/catkin_ws# echo "source ~/catkin_ws/devel/setup.bash" >>
~/.bashrc

root@arnav-virtual-machine:~/catkin_ws# source ~/.bashrc

root@arnav-virtual-machine:~/catkin_ws# echo \$ROS_PACKAGE_PATH

/root/catkin_ws/src:/opt/ros/noetic/share

root@arnav-virtual-machine:~/catkin_ws# rospack find icra2024_qrc_simulation_map

[rospack] Error: package 'icra2024_qrc_simulation_map' not found

root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch

RLEException: [gazebo_world.launch] is neither a launch file in package

[icra2024_qrc_simulation_map] nor is [icra2024_qrc_simulation_map] a launch file name

The traceback for the exception was written to the log file

root@arnav-virtual-machine:~/catkin_ws# rospack profile

Full tree crawl took 0.026020 seconds.

Directories marked with (*) contain no manifest. You may
want to delete these directories.

To get just of list of directories without manifests,
re-run the profile with --zombie-only

0.012721 /opt/ros/noetic/share

0.012408 /root/catkin_ws/src

0.012208 * /root/catkin_ws/src/icra2024_quadruped_competition

0.012115 * /root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code

0.011808 *

/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main

0.009042 *

/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty

0.008899 *

/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include

0.003850 *

/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx

0.003809 *

/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2

0.003605 *

/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx

```

0.002333 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/dds
0.001883 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/include
0.001877 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_posh
0.001847 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/include/unitree
0.001518 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_hoofs
0.001270 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/dds
0.001201 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org
0.001190 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_posh/internal
0.001169 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org/eclipse
0.001125 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org/eclipse/cyclonedds
root@arnav-virtual-machine:~/catkin_ws# rospack find icra2024_qrc_simulation_map
[rospack] Error: package 'icra2024_qrc_simulation_map' not found
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src/icra2024_qrc_simulation_map
CMakeLists.txt README.md doc launch meshes package.xml urdf worlds
root@arnav-virtual-machine:~/catkin_ws# grep '<name>'
~/catkin_ws/src/icra2024_qrc_simulation_map/package.xml
  <name>icra2024_quadruped_competition</name>
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_qrc_simulation_map/package.xml
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws
build devel src
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build

```

```

Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum required
is "3")
-- Using PYTHON_EXECUTABLE: /usr/bin/python3
-- Using Debian Python package layout
-- Using empy: /usr/lib/python3/dist-packages/em.py
-- Using CATKIN_ENABLE_TESTING: ON
-- Call enable_testing()
-- Using CATKIN_TEST_RESULTS_DIR: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': gmock will be built
-- Found PythonInterp: /usr/bin/python3 (found version "3.8.10")
-- Using Python nosetests: /usr/bin/nosetests3
-- catkin 0.8.10
-- BUILD_SHARED_LIBS is on
-- BUILD_SHARED_LIBS is on
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
CMake Error at /opt/ros/noetic/share/catkin/cmake/catkin_package_xml.cmake:54
(message):
  catkin_package_xml() package name 'icra2024_qrc_simulation_map' in
  '/root/catkin_ws/src/icra2024_qrc_simulation_map/package.xml' does not
  match current PROJECT_NAME 'icra2024_quadraped_competition'. You must call
  project() with the same package name before.
Call Stack (most recent call first):
  /opt/ros/noetic/share/catkin/cmake/catkin_package.cmake:99 (catkin_package_xml)
  icra2024_qrc_simulation_map/CMakeLists.txt:6 (catkin_package)

-- Configuring incomplete, errors occurred!
See also "/root/catkin_ws/build/CMakeFiles/CMakeOutput.log".
See also "/root/catkin_ws/build/CMakeFiles/CMakeError.log".
make: *** [Makefile:334: cmake_check_build_system] Error 1
Invoking "make cmake_check_build_system" failed
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# rospack profile

```

Full tree crawl took 0.028519 seconds.

Directories marked with (*) contain no manifest. You may want to delete these directories.

To get just of list of directories without manifests, re-run the profile with --zombie-only

```
-----
0.014444 /opt/ros/noetic/share
0.013200 /root/catkin_ws/src
0.012990 * /root/catkin_ws/src/icra2024_quadruped_competition
0.012818 * /root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code
0.012508 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main
0.009754 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty
0.009461 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include
0.004146 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx
0.004102 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2
0.003612 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx
0.002533 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/dds
0.002097 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_posh
0.001768 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/include
0.001732 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/include/unitree
0.001595 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_hoofs
0.001541 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/dds
```

```

0.001366 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_posh/internal
0.001006 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org
0.000976 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org/eclipse
0.000929 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org/eclipse/cyclonedds
root@arnav-virtual-machine:~/catkin_ws# rospack find icra2024_qrc_simulation_map
/root/catkin_ws/src/icra2024_qrc_simulation_map
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_qrc_simulation_map/CMakeLists.txt
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws
build devel src
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum required
is "3")
-- Using PYTHON_EXECUTABLE: /usr/bin/python3
-- Using Debian Python package layout
-- Using empy: /usr/lib/python3/dist-packages/empy.py
-- Using CATKIN_ENABLE_TESTING: ON
-- Call enable_testing()
-- Using CATKIN_TEST_RESULTS_DIR: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': gmock will be built
-- Found PythonInterp: /usr/bin/python3 (found version "3.8.10")
-- Using Python nosetests: /usr/bin/nosetests3
-- catkin 0.8.10
-- BUILD_SHARED_LIBS is on

```

```

-- BUILD_SHARED_LIBS is on
-- ~~~~~
-- ~~ traversing 1 packages in topological order:
-- ~~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# rospack profile
Full tree crawl took 0.030124 seconds.
Directories marked with (*) contain no manifest. You may
want to delete these directories.
To get just of list of directories without manifests,
re-run the profile with --zombie-only
-----
0.015650 /opt/ros/noetic/share
0.013647 /root/catkin_ws/src
0.013439 * /root/catkin_ws/src/icra2024_quadruped_competition
0.013296 * /root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code
0.012922 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main
0.010045 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty
0.009887 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include
0.004108 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx
0.004023 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx
0.003952 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2
0.002545 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/dds

```

```

0.001926 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/include
0.001922 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_posh
0.001875 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/include/unitree
0.001663 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_hoofs
0.001585 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/dds
0.001486 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org
0.001455 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org/eclipse
0.001406 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org/eclipse/cyclonedds
0.001205 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_posh/internal
root@arnav-virtual-machine:~/catkin_ws# rospack find icra2024_qrc_simulation_map
/root/catkin_ws/src/icra2024_qrc_simulation_map
root@arnav-virtual-machine:~/catkin_ws# ls
~/catkin_ws/src/icra2024_qrc_simulation_map/launch
gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
simulation.launch
RLEException: [simulation.launch] is neither a launch file in package
[icra2024_qrc_simulation_map] nor is [icra2024_qrc_simulation_map] a launch file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/88a57948-08de-11f0-8091-000c298e822d/roslaunch-arnav-virtual-machine-24
36.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

```

Resource not found: The following package was not found in <arg name="world_name" value="\$(find icra2024_quadruped_competition)/worlds/competition.world"/>:
icra2024_quadruped_competition
ROS path [0]=/opt/ros/noetic/share/ros
ROS path [1]=/root/catkin_ws/src
ROS path [2]=/opt/ros/noetic/share
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-2441.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

Resource not found: The following package was not found in <arg name="world_name" value="\$(find icra2024_quadruped_competition)/worlds/competition.world"/>:
icra2024_quadruped_competition
ROS path [0]=/opt/ros/noetic/share/ros
ROS path [1]=/root/catkin_ws/src
ROS path [2]=/opt/ros/noetic/share
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_qrc_simulation_map/launch/gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_qrc_simulation_map/package.xml
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install

Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"

-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum required is "3")
-- Using PYTHON_EXECUTABLE: /usr/bin/python3
-- Using Debian Python package layout
-- Using empy: /usr/lib/python3/dist-packages/em.py
-- Using CATKIN_ENABLE_TESTING: ON
-- Call enable_testing()
-- Using CATKIN_TEST_RESULTS_DIR: /root/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")
-- Using Python nosetests: /usr/bin/nosetests3
-- catkin 0.8.10
-- BUILD_SHARED_LIBS is on
-- BUILD_SHARED_LIBS is on
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-25
12.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

Resource not found: ICRA2024_Quadruped_Competition
ROS path [0]=/opt/ros/noetic/share/ros
ROS path [1]=/root/catkin_ws/src
ROS path [2]=/opt/ros/noetic/share
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# rospack find icra2024_qrc_simulation_map
/root/catkin_ws/src/icra2024_qrc_simulation_map
root@arnav-virtual-machine:~/catkin_ws# ls
~/catkin_ws/src/icra2024_qrc_simulation_map/worlds/
competition.world
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_qrc_simulation_map/launch/gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel

```

```
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws
build  devel  src
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt  icra2024_qrc_simulation_map  icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# echo $ROS_PACKAGE_PATH
/root/catkin_ws/src:/opt/ros/noetic/share
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-25
64.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

```
Resource not found: icra2024_qrc_simulation_map
ROS path [0]=/opt/ros/noetic/share/ros
ROS path [1]=/root/catkin_ws/src
ROS path [2]=/opt/ros/noetic/share
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# gazebo
~/catkin_ws/src/icra2024_qrc_simulation_map/worlds/competition.world
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-25
97.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

```
Resource not found: icra2024_qrc_simulation_map
ROS path [0]=/opt/ros/noetic/share/ros
ROS path [1]=/root/catkin_ws/src
ROS path [2]=/opt/ros/noetic/share
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# source ~/catkin_ws/devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-26
20.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

```
Resource not found: icra2024_qrc_simulation_map
ROS path [0]=/opt/ros/noetic/share/ros
ROS path [1]=/root/catkin_ws/src
ROS path [2]=/opt/ros/noetic/share
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# rospack list | grep icra
icra2024_qrc_simulation_map /root/catkin_ws/src/icra2024_qrc_simulation_map
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_qrc_simulation_map/package.xml
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
#####
```

Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"

####

####

Running command: "make -j2 -l2" in "/root/catkin_ws/build"

####

root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash

root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws

root@arnav-virtual-machine:~/catkin_ws# rm -rf build devel

root@arnav-virtual-machine:~/catkin_ws# catkin_make

Base path: /root/catkin_ws

Source space: /root/catkin_ws/src

Build space: /root/catkin_ws/build

Devel space: /root/catkin_ws/devel

Install space: /root/catkin_ws/install

####

Running command: "cmake /root/catkin_ws/src

-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel

-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in

"/root/catkin_ws/build"

####

-- The C compiler identification is GNU 9.4.0

-- The CXX compiler identification is GNU 9.4.0

-- Check for working C compiler: /usr/bin/cc

-- Check for working C compiler: /usr/bin/cc -- works

-- Detecting C compiler ABI info

-- Detecting C compiler ABI info - done

-- Detecting C compile features

-- Detecting C compile features - done

-- Check for working CXX compiler: /usr/bin/c++

-- Check for working CXX compiler: /usr/bin/c++ -- works

-- Detecting CXX compiler ABI info

-- Detecting CXX compiler ABI info - done

-- Detecting CXX compile features

-- Detecting CXX compile features - done

-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel

-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic

-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic

-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/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
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# echo $ROS_PACKAGE_PATH
/root/catkin_ws/src:/opt/ros/noetic/share
root@arnav-virtual-machine:~/catkin_ws# /root/catkin_ws/src:/opt/ros/noetic/share
bash: /root/catkin_ws/src:/opt/ros/noetic/share: No such file or directory
root@arnav-virtual-machine:~/catkin_ws# export
ROS_PACKAGE_PATH=/root/catkin_ws/src:$ROS_PACKAGE_PATH
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-28
39.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

Resource not found: icra2024_qrc_simulation_map
ROS path [0]=/opt/ros/noetic/share/ros
ROS path [1]=/root/catkin_ws/src
ROS path [2]=/root/catkin_ws/src
ROS path [3]=/opt/ros/noetic/share
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# mv ~/catkin_ws/src/icra2024_qrc_simulation_map
~/catkin_ws/src/icra2024_qrc_simulation_map
mv: cannot stat '/root/catkin_ws/src/icra2024_qrc_simulation_map': No such file or directory
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_qrc_simulation_map/launch/gazebo_world.launch

```

```

root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# rm -rf build devel
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel
-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
####
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/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
-- ~~~~~
-- ~~ traversing 1 packages in topological order:
-- ~~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-30
31.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:42969/

SUMMARY
=====

PARAMETERS

```
* /gazebo/enable_ros_network: True
* /map_description: <?xml version="1....
* /roscdistro: noetic
* /rosversion: 1.17.0
* /use_sim_time: True
```

NODES

```
/
    gazebo (gazebo_ros/gzserver)
    gazebo_gui (gazebo_ros/gzclient)
    spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [3041]
process[gazebo_gui-2]: started with pid [3043]
process[spawn_urdf-3]: started with pid [3048]
[ INFO] [1742842321.850736305]: Finished loading Gazebo ROS API Plugin.
```

```

[ INFO] [1742842321.853629373]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742842321.883417504]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742842321.887493920]: waitForService: Service
[/gazebo_gui/set_physics_properties] has not been advertised, waiting...
Aborted (core dumped)
[gazebo_gui-2] process has died [pid 3043, exit code 134, cmd
/opt/ros/noetic/lib/gazebo_ros/gzclient __name:=gazebo_gui
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2*.log
[ INFO] [1742842322.175076428]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[ INFO] [1742842322.227628375, 0.029000000]: Physics dynamic reconfigure ready.
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
[librospack]: error while executing command
[FATAL] [1742842322.429681631, 0.225000000]:
Package[ICRA2024_Quadruped_Competition] does not have a path
[ERROR] [1742842322.430253, 0.225000]: Spawn service failed. Exiting.
[spawn_urdf-3] process has died [pid 3048, exit code 1, cmd
/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model
competition_map __name:=spawn_urdf
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-31
70.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:46811/

SUMMARY

=====

PARAMETERS

```

* /gazebo/enable_ros_network: True
* /map_description: <?xml version="1....
* /roscdistro: noetic
* /rosversion: 1.17.0
* /use_sim_time: True

```


NODES

/

gazebo (gazebo_ros/gzserver)
spawn_urdf (gazebo_ros/spawn_model)

ROS_MASTER_URI=http://localhost:11311

process[gazebo-1]: started with pid [3180]

process[spawn_urdf-2]: started with pid [3183]

[INFO] [1742842422.871229945]: Finished loading Gazebo ROS API Plugin.

[INFO] [1742842422.872897630]: waitForService: Service [/gazebo/set_physics_properties] has not been advertised, waiting...

[INFO] [1742842423.085325584]: waitForService: Service [/gazebo/set_physics_properties] is now available.

[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found

[librospack]: error while executing command

[FATAL] [1742842423.137403812, 0.029000000]:

Package[ICRA2024_Quadruped_Competition] does not have a path

[ERROR] [1742842423.138857, 0.000000]: Spawn service failed. Exiting.

[INFO] [1742842423.159393986, 0.043000000]: Physics dynamic reconfigure ready.

[spawn_urdf-2] process has died [pid 3183, exit code 1, cmd

/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model competition_map __name:=spawn_urdf

__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2.log].

log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2*.log

^C[gazebo-1] killing on exit

shutting down processing monitor...

... shutting down processing monitor complete

done

root@arnav-virtual-machine:~/catkin_ws# sudo apt update

Get:1 http://security.ubuntu.com/ubuntu focal-security InRelease [128 kB]

Hit:2 http://archive.ubuntu.com/ubuntu focal InRelease

Get:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease [128 kB]

Hit:4 http://packages.ros.org/ros/ubuntu focal InRelease

Get:5 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [4448 kB]

Get:6 http://archive.ubuntu.com/ubuntu focal-backports InRelease [128 kB]

Get:7 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [36.8 kB]

Get:8 http://archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [4679 kB]

Get:9 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [33.2 kB]

Get:10 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [4774 kB]

Fetched 14.4 MB in 9s (1648 kB/s)

Reading package lists... Done

Building dependency tree

Reading state information... Done

1 package can be upgraded. Run 'apt list --upgradable' to see it.

root@arnav-virtual-machine:~/catkin_ws# sudo apt install gazebo-ros-pkgs

gazebo-ros-control

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package gazebo-ros-pkgs
E: Unable to locate package gazebo-ros-control
root@arnav-virtual-machine:~/catkin_ws# sudo apt-get install ros-noetic-gazebo-ros
Reading package lists... Done
Building dependency tree
Reading state information... Done
ros-noetic-gazebo-ros is already the newest version (2.9.3-1focal.20250227.004520).
ros-noetic-gazebo-ros set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
root@arnav-virtual-machine:~/catkin_ws# apt upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
  linux-libc-dev
1 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 1116 kB of archives.
After this operation, 12.3 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 linux-libc-dev amd64
5.4.0-211.231 [1116 kB]
Fetched 1116 kB in 2s (501 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
(Reading database ... 113217 files and directories currently installed.)
Preparing to unpack .../linux-libc-dev_5.4.0-211.231_amd64.deb ...
Unpacking linux-libc-dev:amd64 (5.4.0-211.231) over (5.4.0-208.228) ...
Setting up linux-libc-dev:amd64 (5.4.0-211.231) ...
root@arnav-virtual-machine:~/catkin_ws# apt install gazebo-ros-pkgs gazebo-ros-control
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package gazebo-ros-pkgs
E: Unable to locate package gazebo-ros-control
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# sudo apt update
Hit:1 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:5 http://packages.ros.org/ros/ubuntu focal InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

```

All packages are up to date.
root@arnav-virtual-machine:~/catkin_ws# sudo apt install ros-noetic-gazebo-ros-pkgs
ros-noetic-gazebo-ros-control
Reading package lists... Done
Building dependency tree
Reading state information... Done
ros-noetic-gazebo-ros-control is already the newest version (2.9.3-1focal.20250227.005342).
ros-noetic-gazebo-ros-control set to manually installed.
ros-noetic-gazebo-ros-pkgs is already the newest version (2.9.3-1focal.20250227.011522).
ros-noetic-gazebo-ros-pkgs set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# echo "source ~/catkin_ws/devel/setup.bash" >>
~/.bashrc
root@arnav-virtual-machine:~/catkin_ws# sudo sh -c 'echo "deb
http://packages.ros.org/ros/ubuntu focal main" > /etc/apt/sources.list.d/ros-latest.list'
root@arnav-virtual-machine:~/catkin_ws# sudo apt update
Hit:1 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://packages.ros.org/ros/ubuntu focal InRelease
Hit:4 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
W: Target Packages (main/binary-amd64/Packages) is configured multiple times in
/etc/apt/sources.list.d/ros-latest.list:1 and /etc/apt/sources.list.d/ros1-latest.list:1
W: Target Packages (main/binary-all/Packages) is configured multiple times in
/etc/apt/sources.list.d/ros-latest.list:1 and /etc/apt/sources.list.d/ros1-latest.list:1
W: Target Packages (main/binary-amd64/Packages) is configured multiple times in
/etc/apt/sources.list.d/ros-latest.list:1 and /etc/apt/sources.list.d/ros1-latest.list:1
W: Target Packages (main/binary-all/Packages) is configured multiple times in
/etc/apt/sources.list.d/ros-latest.list:1 and /etc/apt/sources.list.d/ros1-latest.list:1

```

```

root@arnav-virtual-machine:~/catkin_ws# sudo apt install ros-noetic-gazebo-ros-pkgs
ros-noetic-gazebo-ros-control
Reading package lists... Done
Building dependency tree
Reading state information... Done
ros-noetic-gazebo-ros-control is already the newest version (2.9.3-1focal.20250227.005342).
ros-noetic-gazebo-ros-pkgs is already the newest version (2.9.3-1focal.20250227.011522).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
W: Target Packages (main/binary-amd64/Packages) is configured multiple times in
/etc/apt/sources.list.d/ros-latest.list:1 and /etc/apt/sources.list.d/ros1-latest.list:1
W: Target Packages (main/binary-all/Packages) is configured multiple times in
/etc/apt/sources.list.d/ros-latest.list:1 and /etc/apt/sources.list.d/ros1-latest.list:1
root@arnav-virtual-machine:~/catkin_ws# cat /etc/apt/sources.list.d/ros-latest.list
deb http://packages.ros.org/ros/ubuntu focal main
root@arnav-virtual-machine:~/catkin_ws# cat /etc/apt/sources.list.d/ros1-latest.list
deb [ signed-by=/usr/share/keyrings/ros1-latest-archive-keyring.gpg ]
http://packages.ros.org/ros/ubuntu focal main
root@arnav-virtual-machine:~/catkin_ws# sudo rm /etc/apt/sources.list.d/ros1-latest.list
root@arnav-virtual-machine:~/catkin_ws# sudo apt update
Hit:1 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://packages.ros.org/ros/ubuntu focal InRelease
Hit:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Err:4 http://packages.ros.org/ros/ubuntu focal InRelease
  The following signatures couldn't be verified because the public key is not available:
  NO_PUBKEY F42ED6FBAB17C654
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
W: An error occurred during the signature verification. The repository is not updated and the
previous index files will be used. GPG error: http://packages.ros.org/ros/ubuntu focal
InRelease: The following signatures couldn't be verified because the public key is not
available: NO_PUBKEY F42ED6FBAB17C654
W: Failed to fetch http://packages.ros.org/ros/ubuntu/dists/focal/InRelease The following
signatures couldn't be verified because the public key is not available: NO_PUBKEY
F42ED6FBAB17C654
W: Some index files failed to download. They have been ignored, or old ones used instead.
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-44
27.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:44551/

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /roscdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  gazebo_gui (gazebo_ros/gzclient)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [4437]
process[gazebo_gui-2]: started with pid [4440]
process[spawn_urdf-3]: started with pid [4445]
[ INFO] [1742842715.026287852]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742842715.028007630]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742842715.438245995]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742842715.445100744]: waitForService: Service
[/gazebo_gui/set_physics_properties] has not been advertised, waiting...
[ INFO] [1742842715.582726156]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[ INFO] [1742842715.664446622, 0.013000000]: Physics dynamic reconfigure ready.
Aborted (core dumped)
[gazebo_gui-2] process has died [pid 4440, exit code 134, cmd
/opt/ros/noetic/lib/gazebo_ros/gzclient __name:=gazebo_gui
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2*.log
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
[librospack]: error while executing command
[FATAL] [1742842715.924280580, 0.263000000]:
Package[ICRA2024_Quadruped_Competition] does not have a path
[ERROR] [1742842715.925666, 0.264000]: Spawn service failed. Exiting.
[spawn_urdf-3] process has died [pid 4445, exit code 1, cmd
/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model
competition_map __name:=spawn_urdf
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3*.log
```

^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# rospack profile
Full tree crawl took 0.030455 seconds.
Directories marked with (*) contain no manifest. You may
want to delete these directories.
To get just of list of directories without manifests,
re-run the profile with --zombie-only

```
-----  
0.015174 /root/catkin_ws/src  
0.014946 * /root/catkin_ws/src/icra2024_quadruped_competition  
0.014822 * /root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code  
0.014607 /opt/ros/noetic/share  
0.014452 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main  
0.011179 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main/thirdparty  
0.011004 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main/thirdparty/include  
0.004803 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main/thirdparty/include/iceoryx  
0.004735 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main/thirdparty/include/iceoryx/v2.0.2  
0.004418 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main/thirdparty/include/ddscxx  
0.002444 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main/thirdparty/include/ddscxx/dds  
0.002255 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_posh  
0.002232 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main/include  
0.002194 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main/include/unitree  
0.002050 *  
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd  
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_hoofs
```

```

0.001900 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org
0.001866 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org/eclipse
0.001809 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/ddscxx/org/eclipse/cyclonedds
0.001566 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/iceoryx/v2.0.2/iceoryx_posh/internal
0.001477 *
/root/catkin_ws/src/icra2024_quadruped_competition/ieee-qrc-2024-device_code/unitree_sd
k2-main/thirdparty/include/dds
root@arnav-virtual-machine:~/catkin_ws# roscd icra2024_quadruped_competition
roscd: No such package/stack 'icra2024_quadruped_competition'
root@arnav-virtual-machine:~/catkin_ws# echo $ROS_PACKAGE_PATH
/root/catkin_ws/src:/opt/ros/noetic/share
root@arnav-virtual-machine:~/catkin_ws# sudo apt-key adv --keyserver
'hkp://keyserver.ubuntu.com:80' --recv-key F42ED6FBAB17C654
Executing: /tmp/apt-key-gpghome.u2jPIQ75Rs/gpg.1.sh --keyserver
hkp://keyserver.ubuntu.com:80 --recv-key F42ED6FBAB17C654
gpg: key F42ED6FBAB17C654: public key "Open Robotics <info@osrfoundation.org>"
imported
gpg: Total number processed: 1
gpg:          imported: 1
root@arnav-virtual-machine:~/catkin_ws# sudo apt update
Hit:1 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://packages.ros.org/ros/ubuntu focal InRelease
Hit:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# ls
~/catkin_ws/src/icra2024_quadruped_competition
README.md docs ieee-qrc-2024-device_code
root@arnav-virtual-machine:~/catkin_ws# sudo curl -sSL
"http://keyserver.ubuntu.com/pks/lookup?op=get&search=0xF42ED6FBAB17C654" | sudo
gpg --dearmor -o /usr/share/keyrings/ros-archive-keyring.gpg
sudo: curl: command not found
gpg: no valid OpenPGP data found.

```

```

root@arnav-virtual-machine:~/catkin_ws# echo "deb
[signed-by=/usr/share/keyrings/ros-archive-keyring.gpg] http://packages.ros.org/ros/ubuntu
focal main" | sudo tee /etc/apt/sources.list.d/ros-latest.list > /dev/null
root@arnav-virtual-machine:~/catkin_ws# sudo apt update
Hit:1 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://packages.ros.org/ros/ubuntu focal InRelease
Hit:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Err:4 http://packages.ros.org/ros/ubuntu focal InRelease
  The following signatures couldn't be verified because the public key is not available:
NO_PUBKEY F42ED6FBAB17C654
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
W: An error occurred during the signature verification. The repository is not updated and the
previous index files will be used. GPG error: http://packages.ros.org/ros/ubuntu focal
InRelease: The following signatures couldn't be verified because the public key is not
available: NO_PUBKEY F42ED6FBAB17C654
W: Failed to fetch http://packages.ros.org/ros/ubuntu/dists/focal/InRelease The following
signatures couldn't be verified because the public key is not available: NO_PUBKEY
F42ED6FBAB17C654
W: Some index files failed to download. They have been ignored, or old ones used instead.
root@arnav-virtual-machine:~/catkin_ws# sudo apt-key adv --keyserver
'hkp://keyserver.ubuntu.com:80' --recv-key F42ED6FBAB17C654
Executing: /tmp/apt-key-gpghome.2HL3xgV4jS/gpg.1.sh --keyserver
hkp://keyserver.ubuntu.com:80 --recv-key F42ED6FBAB17C654
gpg: key F42ED6FBAB17C654: "Open Robotics <info@osrfoundation.org>" not changed
gpg: Total number processed: 1
gpg:      unchanged: 1
root@arnav-virtual-machine:~/catkin_ws# sudo apt update
Hit:1 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:3 http://packages.ros.org/ros/ubuntu focal InRelease
Hit:4 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Err:3 http://packages.ros.org/ros/ubuntu focal InRelease
  The following signatures couldn't be verified because the public key is not available:
NO_PUBKEY F42ED6FBAB17C654
Hit:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
W: An error occurred during the signature verification. The repository is not updated and the
previous index files will be used. GPG error: http://packages.ros.org/ros/ubuntu focal
InRelease: The following signatures couldn't be verified because the public key is not
available: NO_PUBKEY F42ED6FBAB17C654

```


W: Failed to fetch <http://packages.ros.org/ros/ubuntu/dists/focal/InRelease> The following signatures couldn't be verified because the public key is not available: NO_PUBKEY F42ED6FBAB17C654

W: Some index files failed to download. They have been ignored, or old ones used instead.

```
root@arnav-virtual-machine:~/catkin_ws# sudo apt-key adv --keyserver
```

```
hkp://keyserver.ubuntu.com:80 --recv-key F42ED6FBAB17C654
```

```
Executing: /tmp/apt-key-gpghome.jCubjey0Lm/gpg.1.sh --keyserver
```

```
hkp://keyserver.ubuntu.com:80 --recv-key F42ED6FBAB17C654
```

```
gpg: key F42ED6FBAB17C654: "Open Robotics <info@osrfoundation.org>" not changed
```

```
gpg: Total number processed: 1
```

```
gpg:          unchanged: 1
```

```
root@arnav-virtual-machine:~/catkin_ws# sudo apt update
```

```
Hit:1 http://security.ubuntu.com/ubuntu focal-security InRelease
```

```
Hit:2 http://archive.ubuntu.com/ubuntu focal InRelease
```

```
Hit:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease
```

```
Hit:4 http://packages.ros.org/ros/ubuntu focal InRelease
```

```
Hit:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease
```

```
Err:4 http://packages.ros.org/ros/ubuntu focal InRelease
```

The following signatures couldn't be verified because the public key is not available:

NO_PUBKEY F42ED6FBAB17C654

Reading package lists... Done

Building dependency tree

Reading state information... Done

All packages are up to date.

W: An error occurred during the signature verification. The repository is not updated and the previous index files will be used. GPG error: <http://packages.ros.org/ros/ubuntu/focal/InRelease>: The following signatures couldn't be verified because the public key is not available: NO_PUBKEY F42ED6FBAB17C654

W: Failed to fetch <http://packages.ros.org/ros/ubuntu/dists/focal/InRelease> The following signatures couldn't be verified because the public key is not available: NO_PUBKEY F42ED6FBAB17C654

W: Some index files failed to download. They have been ignored, or old ones used instead.

```
root@arnav-virtual-machine:~/catkin_ws# sudo curl -sSL
```

```
'https://raw.githubusercontent.com/ros/rosdistro/master/ros.key' -o
```

```
/usr/share/keyrings/ros-archive-keyring.gpg
```

```
sudo: curl: command not found
```

```
root@arnav-virtual-machine:~/catkin_ws# echo "deb [arch=amd64
```

```
signed-by=/usr/share/keyrings/ros-archive-keyring.gpg] http://packages.ros.org/ros/ubuntu
```

```
focal main" | sudo tee /etc/apt/sources.list.d/ros-latest.list
```

```
deb [arch=amd64 signed-by=/usr/share/keyrings/ros-archive-keyring.gpg]
```

```
http://packages.ros.org/ros/ubuntu focal main
```

```
root@arnav-virtual-machine:~/catkin_ws# sudo apt update
```

```
Hit:1 http://archive.ubuntu.com/ubuntu focal InRelease
```

```
Hit:2 http://security.ubuntu.com/ubuntu focal-security InRelease
```

```
Hit:3 http://packages.ros.org/ros/ubuntu focal InRelease
```

```
Hit:4 http://archive.ubuntu.com/ubuntu focal-updates InRelease
```

```
Hit:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease
```

```
Err:3 http://packages.ros.org/ros/ubuntu focal InRelease
```

The following signatures couldn't be verified because the public key is not available:
NO_PUBKEY F42ED6FBAB17C654
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
W: An error occurred during the signature verification. The repository is not updated and the previous index files will be used. GPG error: <http://packages.ros.org/ros/ubuntu/focal/InRelease>: The following signatures couldn't be verified because the public key is not available: NO_PUBKEY F42ED6FBAB17C654
W: Failed to fetch <http://packages.ros.org/ros/ubuntu/dists/focal/InRelease> The following signatures couldn't be verified because the public key is not available: NO_PUBKEY F42ED6FBAB17C654
W: Some index files failed to download. They have been ignored, or old ones used instead.
root@arnav-virtual-machine:~/catkin_ws# sudo apt install curl
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
curl
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 162 kB of archives.
After this operation, 414 kB of additional disk space will be used.
Get:1 <http://archive.ubuntu.com/ubuntu/focal-updates/main/amd64/curl/amd64/7.68.0-1ubuntu2.25> [162 kB]
Fetched 162 kB in 1s (121 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package curl.
(Reading database ... 113217 files and directories currently installed.)
Preparing to unpack .../curl_7.68.0-1ubuntu2.25_amd64.deb ...
Unpacking curl (7.68.0-1ubuntu2.25) ...
Setting up curl (7.68.0-1ubuntu2.25) ...
root@arnav-virtual-machine:~/catkin_ws# sudo curl -sSL
'https://raw.githubusercontent.com/ros/rosdistro/master/ros.key' -o
/usr/share/keyrings/ros-archive-keyring.gpg
root@arnav-virtual-machine:~/catkin_ws# sudo apt update
Hit:1 <http://security.ubuntu.com/ubuntu/focal-security/InRelease>
Hit:2 <http://archive.ubuntu.com/ubuntu/focal/InRelease>
Hit:3 <http://packages.ros.org/ros/ubuntu/focal/InRelease>
Hit:4 <http://archive.ubuntu.com/ubuntu/focal-updates/InRelease>
Hit:5 <http://archive.ubuntu.com/ubuntu/focal-backports/InRelease>
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadraped_competition

```
root@arnav-virtual-machine:~/catkin_ws# ls
~/catkin_ws/src/icra2024_quadruped_competition
README.md docs ieee-qrc-2024-device_code
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# roscd icra2024_quadruped_competition
roscd: No such package/stack 'icra2024_quadruped_competition'
root@arnav-virtual-machine:~/catkin_ws# source /opt/ros/noetic/setup.bash
root@arnav-virtual-machine:~/catkin_ws# source ~/catkin_ws/devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# echo "source /opt/ros/noetic/setup.bash" >>
~/bashrc
root@arnav-virtual-machine:~/catkin_ws# echo "source ~/catkin_ws/devel/setup.bash" >>
~/bashrc
root@arnav-virtual-machine:~/catkin_ws# source ~/.bashrc
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
```

####

####

Running command: "make -j2 -l2" in "/root/catkin_ws/build"

####

root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash

root@arnav-virtual-machine:~/catkin_ws# echo "source ~/catkin_ws/devel/setup.bash" >>
~/.bashrc

root@arnav-virtual-machine:~/catkin_ws# rospack list | grep icra

icra2024_qrc_simulation_map /root/catkin_ws/src/icra2024_qrc_simulation_map

root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch

... logging to

/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-70
30.log

Checking log directory for disk usage. This may take a while.

Press Ctrl-C to interrupt

Done checking log file disk usage. Usage is <1GB.

xacro: in-order processing became default in ROS Melodic. You can drop the option.

started roslaunch server http://arnav-virtual-machine:34345/

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /roscdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

/

gazebo (gazebo_ros/gzserver)

gazebo_gui (gazebo_ros/gzclient)

spawn_urdf (gazebo_ros/spawn_model)

ROS_MASTER_URI=http://localhost:11311

process[gazebo-1]: started with pid [7040]

process[gazebo_gui-2]: started with pid [7043]

process[spawn_urdf-3]: started with pid [7047]

[INFO] [1742843216.836818989]: Finished loading Gazebo ROS API Plugin.

[INFO] [1742843216.840350414]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...

[INFO] [1742843216.892396507]: Finished loading Gazebo ROS API Plugin.

[INFO] [1742843216.893878915]: waitForService: Service
[/gazebo_gui/set_physics_properties] has not been advertised, waiting...

```

Aborted (core dumped)
[gazebo_gui-2] process has died [pid 7043, exit code 134, cmd
/opt/ros/noetic/lib/gazebo_ros/gzclient __name:=gazebo_gui
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2*.log
[ INFO] [1742843217.121380835]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[ INFO] [1742843217.150225184, 0.015000000]: Physics dynamic reconfigure ready.
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
[librospack]: error while executing command
[FATAL] [1742843217.389980871, 0.242000000]:
Package[ICRA2024_Quadruped_Competition] does not have a path
[ERROR] [1742843217.390809, 0.242000]: Spawn service failed. Exiting.
[spawn_urdf-3] process has died [pid 7047, exit code 1, cmd
/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model
competition_map __name:=spawn_urdf
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# rm -rf build/ devel/ log/
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel
-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
####
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done

```

```

-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': 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
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# rosdep update
reading in sources list data from /etc/ros/rosdep/sources.list.d
Warning: running 'rosdep update' as root is not recommended.
You should run 'sudo rosdep fix-permissions' and invoke 'rosdep update' again without
sudo.
Hit https://raw.githubusercontent.com/ros/rosdistro/master/rosdep/osx-homebrew.yaml
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
Hit https://raw.githubusercontent.com/ros/rosdistro/master/releases/fuerte.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"
Skip end-of-life distro "foxy"
Skip end-of-life distro "galactic"
Skip end-of-life distro "groovy"
Add distro "humble"
Skip end-of-life distro "hydro"
Skip end-of-life distro "indigo"
Skip end-of-life distro "iron"
Skip end-of-life distro "jade"
Add distro "jazzy"
Skip end-of-life distro "kinetic"
Skip end-of-life distro "lunar"
Skip end-of-life distro "melodic"
Add distro "noetic"
Add distro "rolling"
updated cache in /root/.ros/rosdep/sources.cache
root@arnav-virtual-machine:~/catkin_ws# rosdep install --from-paths src --ignore-src -r -y
#All required rosdeps installed successfully
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-73
50.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:33577/

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /rostdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

/

- gazebo (gazebo_ros/gzserver)
- gazebo_gui (gazebo_ros/gzclient)
- spawn_urdf (gazebo_ros/spawn_model)

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [7360]
process[gazebo_gui-2]: started with pid [7363]
process[spawn_urdf-3]: started with pid [7367]
[ INFO] [1742843294.746210539]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742843294.748207994]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742843294.934209743]: waitForService: Service
[/gazebo_gui/set_physics_properties] has not been advertised, waiting...
[ INFO] [1742843294.936568138]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742843295.047719471, 0.002000000]: waitForService: Service
[/gazebo/set_physics_properties] is now available.
Aborted (core dumped)
[gazebo_gui-2] process has died [pid 7363, exit code 134, cmd
/opt/ros/noetic/lib/gazebo_ros/gzclient __name:=gazebo_gui
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2*.log
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
[librospack]: error while executing command
[FATAL] [1742843295.142788797, 0.055000000]:
Package[ICRA2024_Quadruped_Competition] does not have a path
[ERROR] [1742843295.147079, 0.000000]: Spawn service failed. Exiting.
[ INFO] [1742843295.163545042, 0.080000000]: Physics dynamic reconfigure ready.
[spawn_urdf-3] process has died [pid 7367, exit code 1, cmd
/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model
competition_map __name:=spawn_urdf
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# sudo apt update
Hit:1 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:5 http://packages.ros.org/ros/ubuntu focal InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
root@arnav-virtual-machine:~/catkin_ws# sudo apt upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
```



```
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@arnav-virtual-machine:~/catkin_ws# sudo apt install ros-noetic-gazebo-ros
ros-noetic-gazebo-ros-pkgs ros-noetic-gazebo-ros-control
Reading package lists... Done
Building dependency tree
Reading state information... Done
ros-noetic-gazebo-ros is already the newest version (2.9.3-1focal.20250227.004520).
ros-noetic-gazebo-ros-control is already the newest version (2.9.3-1focal.20250227.005342).
ros-noetic-gazebo-ros-pkgs is already the newest version (2.9.3-1focal.20250227.011522).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@arnav-virtual-machine:~/catkin_ws# sudo apt install libgazebo11 libignition-math6
Reading package lists... Done
Building dependency tree
Reading state information... Done
libgazebo11 is already the newest version (11.15.1-1~focal).
libgazebo11 set to manually installed.
libignition-math6 is already the newest version (6.15.1-1~focal).
libignition-math6 set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@arnav-virtual-machine:~/catkin_ws# rospack list | grep ICRA
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# rm -rf build/ devel/ log/
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel
-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
```

####

```
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': 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
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
```

####

Running command: "make -j2 -l2" in "/root/catkin_ws/build"

####

```
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-79
61.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:36101/

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /roscdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  gazebo_gui (gazebo_ros/gzclient)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [7971]
process[gazebo_gui-2]: started with pid [7974]
process[spawn_urdf-3]: started with pid [7978]
[ INFO] [1742843406.175063718]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742843406.177965032]: waitForService: Service
[/gazebo_gui/set_physics_properties] has not been advertised, waiting...
[ INFO] [1742843406.234570055]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742843406.240164097]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742843406.511574689]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[ INFO] [1742843406.529561778, 0.016000000]: Physics dynamic reconfigure ready.
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
[librospack]: error while executing command
[FATAL] [1742843406.662176716, 0.135000000]:
Package[ICRA2024_Quadruped_Competition] does not have a path
[ERROR] [1742843406.663247, 0.135000]: Spawn service failed. Exiting.
Aborted (core dumped)
```

```
[gazebo_gui-2] process has died [pid 7974, exit code 134, cmd
/opt/ros/noetic/lib/gazebo_ros/gzclient __name:=gazebo_gui
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2*.log
[spawn_urdf-3] process has died [pid 7978, exit code 1, cmd
/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model
competition_map __name:=spawn_urdf
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false
Usage: roslaunch [options] [package] <filename> [arg_name:=value...]
       roslaunch [options] <filename> [<filename>...] [arg_name:=value...]
```

If <filename> is a single dash ('-'), launch XML is read from standard input.

```
roslaunch: error: The following input files do not exist: gui:=false
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-81
02.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server <http://arnav-virtual-machine:46707/>

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /rostdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [8112]
process[spawn_urdf-2]: started with pid [8115]
[ INFO] [1742843461.473113430]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742843461.474712047]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742843461.689402890]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[ INFO] [1742843461.712982504, 0.013000000]: Physics dynamic reconfigure ready.
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
[librospack]: error while executing command
[FATAL] [1742843462.007812877, 0.299000000]:
Package[ICRA2024_Quadruped_Competition] does not have a path
[ERROR] [1742843462.008929, 0.300000]: Spawn service failed. Exiting.
[spawn_urdf-2] process has died [pid 8115, exit code 1, cmd
/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model
competition_map __name:=spawn_urdf
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# rospack find ICRA2024_Quadruped_Competition
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws/src
root@arnav-virtual-machine:~/catkin_ws/src# ls
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws/src# source ~/catkin_ws/devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws/src# echo "source ~/catkin_ws/devel/setup.bash"
>> ~/.bashrc
root@arnav-virtual-machine:~/catkin_ws/src# source ~/.bashrc
root@arnav-virtual-machine:~/catkin_ws/src# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
```

```

root@arnav-virtual-machine:~/catkin_ws# rm -rf build/ devel/ log/
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel
-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
####
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': 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

```

```
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-85
37.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:42281/

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /rostdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [8547]
process[spawn_urdf-2]: started with pid [8550]
[ INFO] [1742843594.758769637]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742843594.763324557]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742843595.016461530]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
```

```

[ INFO] [1742843595.068450057, 0.022000000]: Physics dynamic reconfigure ready.
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
[librospack]: error while executing command
[FATAL] [1742843595.286080726, 0.225000000]:
Package[ICRA2024_Quadruped_Competition] does not have a path
[ERROR] [1742843595.286932, 0.226000]: Spawn service failed. Exiting.
[spawn_urdf-2] process has died [pid 8550, exit code 1, cmd
/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model
competition_map __name:=spawn_urdf
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# rospack find ICRA2024_Quadruped_Competition
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
root@arnav-virtual-machine:~/catkin_ws# apt update
Get:1 http://security.ubuntu.com/ubuntu focal-security InRelease [128 kB]
Hit:2 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://packages.ros.org/ros/ubuntu focal InRelease
Get:4 http://archive.ubuntu.com/ubuntu focal-updates InRelease [128 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease [128 kB]
Get:6 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [4269 kB]
Get:7 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [1597 kB]
Get:8 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [1304 kB]
Get:9 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [4774 kB]
Fetched 12.3 MB in 10s (1250 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
7 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@arnav-virtual-machine:~/catkin_ws# apt upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
  libpython3.8 libpython3.8-dev libpython3.8-minimal libpython3.8-stdlib
  python3.8 python3.8-dev python3.8-minimal
7 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 10.8 MB of archives.
After this operation, 7168 B of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 python3.8-dev amd64
3.8.10-0ubuntu1~20.04.18 [514 kB]
Get:2 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libpython3.8-dev amd64
3.8.10-0ubuntu1~20.04.18 [3950 kB]

```


Get:3 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libpython3.8 amd64 3.8.10-0ubuntu1~20.04.18 [1625 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 python3.8 amd64 3.8.10-0ubuntu1~20.04.18 [387 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libpython3.8-stdlib amd64 3.8.10-0ubuntu1~20.04.18 [1676 kB]
Get:6 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 python3.8-minimal amd64 3.8.10-0ubuntu1~20.04.18 [1900 kB]
Get:7 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libpython3.8-minimal amd64 3.8.10-0ubuntu1~20.04.18 [721 kB]
Fetched 10.8 MB in 22s (499 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
(Reading database ... 113224 files and directories currently installed.)
Preparing to unpack .../0-python3.8-dev_3.8.10-0ubuntu1~20.04.18_amd64.deb ...
Unpacking python3.8-dev (3.8.10-0ubuntu1~20.04.18) over (3.8.10-0ubuntu1~20.04.17) ...
Preparing to unpack .../1-libpython3.8-dev_3.8.10-0ubuntu1~20.04.18_amd64.deb ...
.
Unpacking libpython3.8-dev:amd64 (3.8.10-0ubuntu1~20.04.18) over (3.8.10-0ubuntu1~20.04.17) ...
Preparing to unpack .../2-libpython3.8_3.8.10-0ubuntu1~20.04.18_amd64.deb ...
Unpacking libpython3.8:amd64 (3.8.10-0ubuntu1~20.04.18) over (3.8.10-0ubuntu1~20.04.17) ...
Preparing to unpack .../3-python3.8_3.8.10-0ubuntu1~20.04.18_amd64.deb ...
Unpacking python3.8 (3.8.10-0ubuntu1~20.04.18) over (3.8.10-0ubuntu1~20.04.17) .
..
Preparing to unpack .../4-libpython3.8-stdlib_3.8.10-0ubuntu1~20.04.18_amd64.deb ...
..
Unpacking libpython3.8-stdlib:amd64 (3.8.10-0ubuntu1~20.04.18) over (3.8.10-0ubuntu1~20.04.17) ...
Preparing to unpack .../5-python3.8-minimal_3.8.10-0ubuntu1~20.04.18_amd64.deb .
..
Unpacking python3.8-minimal (3.8.10-0ubuntu1~20.04.18) over (3.8.10-0ubuntu1~20.04.17) ...
Preparing to unpack .../6-libpython3.8-minimal_3.8.10-0ubuntu1~20.04.18_amd64.deb ...
Unpacking libpython3.8-minimal:amd64 (3.8.10-0ubuntu1~20.04.18) over (3.8.10-0ubuntu1~20.04.17) ...
Setting up libpython3.8-minimal:amd64 (3.8.10-0ubuntu1~20.04.18) ...
Setting up python3.8-minimal (3.8.10-0ubuntu1~20.04.18) ...
Setting up libpython3.8-stdlib:amd64 (3.8.10-0ubuntu1~20.04.18) ...
Setting up python3.8 (3.8.10-0ubuntu1~20.04.18) ...
Setting up libpython3.8:amd64 (3.8.10-0ubuntu1~20.04.18) ...
Setting up libpython3.8-dev:amd64 (3.8.10-0ubuntu1~20.04.18) ...
Setting up python3.8-dev (3.8.10-0ubuntu1~20.04.18) ...
Processing triggers for libc-bin (2.31-0ubuntu9.17) ...
Processing triggers for mime-support (3.64ubuntu1) ...
root@arnav-virtual-machine:~/catkin_ws# rospack find ICRA2024_Quadruped_Competition

```

[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
root@arnav-virtual-machine:~/catkin_ws# echo $ROS_PACKAGE_PATH
/root/catkin_ws/src:/opt/ros/noetic/share
root@arnav-virtual-machine:~/catkin_ws# rospack find ICRA2024_Quadruped_Competition
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws/src
root@arnav-virtual-machine:~/catkin_ws/src# ls
CMakeLists.txt  icra2024_qrc_simulation_map  icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws/src# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# rm -rf build devel
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel
-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
####
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done

```

```

-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': 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
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# echo $ROS_PACKAGE_PATH
/root/catkin_ws/src:/opt/ros/noetic/share
root@arnav-virtual-machine:~/catkin_ws# echo $ROS_PACKAGE_PATH
/root/catkin_ws/src:/opt/ros/noetic/share
root@arnav-virtual-machine:~/catkin_ws# export
ROS_PACKAGE_PATH=$ROS_PACKAGE_PATH:~/catkin_ws/src
root@arnav-virtual-machine:~/catkin_ws# source ~/.bashrc
root@arnav-virtual-machine:~/catkin_ws# rospack find ICRA2024_Quadruped_Competition
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
root@arnav-virtual-machine:~/catkin_ws# rospack find ICRA2024_Quadruped_Competition
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
root@arnav-virtual-machine:~/catkin_ws# echo $ROS_PACKAGE_PATH

```

```

/root/catkin_ws/src:/opt/ros/noetic/share
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src
CMakeLists.txt icra2024_qrc_simulation_map icra2024_quadruped_competition
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src/icra2024_qrc_simulation_map
CMakeLists.txt README.md doc launch meshes package.xml urdf worlds
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# rm -rf build devel
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel
-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
####
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': 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
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# rospack find icra2024_qrc_simulation_map
/root/catkin_ws/src/icra2024_qrc_simulation_map
root@arnav-virtual-machine:~/catkin_ws# roslaunch ICRA2024_Quadruped_Competition
simulation.launch
RLEException: [simulation.launch] is neither a launch file in package
[ICRA2024_Quadruped_Competition] nor is [ICRA2024_Quadruped_Competition] a launch
file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo.launch
RLEException: [gazebo.launch] is neither a launch file in package
[icra2024_qrc_simulation_map] nor is [icra2024_qrc_simulation_map] a launch file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# ls ~/catkin_ws/src/icra2024_qrc_simulation_map
CMakeLists.txt README.md doc launch meshes package.xml urdf worlds
root@arnav-virtual-machine:~/catkin_ws# ls
~/catkin_ws/src/icra2024_qrc_simulation_map/launch
gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-95
99.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server <http://arnav-virtual-machine:43067/>

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /roscdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  gazebo_gui (gazebo_ros/gzclient)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [9609]
process[gazebo_gui-2]: started with pid [9611]
process[spawn_urdf-3]: started with pid [9617]
[ INFO] [1742874399.564984235]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742874399.568481753]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742874399.723568970]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742874399.726867185]: waitForService: Service
[/gazebo_gui/set_physics_properties] has not been advertised, waiting...
[ INFO] [1742874399.896729938]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[ INFO] [1742874400.024138887, 0.029000000]: Physics dynamic reconfigure ready.
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
[librospack]: error while executing command
[FATAL] [1742874400.075578232, 0.082000000]:
Package[ICRA2024_Quadruped_Competition] does not have a path
[ERROR] [1742874400.076883, 0.083000]: Spawn service failed. Exiting.
Aborted (core dumped)
[gazebo_gui-2] process has died [pid 9611, exit code 134, cmd
/opt/ros/noetic/lib/gazebo_ros/gzclient __name:=gazebo_gui
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/gazebo_gui-2*.log
[spawn_urdf-3] process has died [pid 9617, exit code 1, cmd
/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model
competition_map __name:=spawn_urdf
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
```

```
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-97
39.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:39643/

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /rostdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [9749]
process[spawn_urdf-2]: started with pid [9752]
[ INFO] [1742874415.972450423]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742874415.975334170]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742874416.168792412]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[ INFO] [1742874416.195819755, 0.016000000]: Physics dynamic reconfigure ready.
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
[librospack]: error while executing command
[FATAL] [1742874416.237549365, 0.054000000]:
Package[ICRA2024_Quadruped_Competition] does not have a path
[ERROR] [1742874416.238134, 0.000000]: Spawn service failed. Exiting.
[spawn_urdf-2] process has died [pid 9752, exit code 1, cmd
/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model
competition_map __name:=spawn_urdf
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2.log].
```

```

log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_qrc_simulation_map/launch/gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# rm -rf build devel
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
##### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel
-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
####
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.

```



```
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': 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
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-10
015.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server <http://arnav-virtual-machine:39085/>

SUMMARY

=====

PARAMETERS

```
* /gazebo/enable_ros_network: True
* /map_description: <?xml version="1....
* /roscdistro: noetic
* /rosversion: 1.17.0
* /use_sim_time: True
```

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [10025]
process[spawn_urdf-2]: started with pid [10028]
[ INFO] [1742874561.967163536]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742874561.968720407]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742874562.186161071]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[rospack] Error: package 'ICRA2024_Quadruped_Competition' not found
[librospack]: error while executing command
[FATAL] [1742874562.220538751, 0.026000000]:
Package[ICRA2024_Quadruped_Competition] does not have a path
[ERROR] [1742874562.221477, 0.026000]: Spawn service failed. Exiting.
[ INFO] [1742874562.233951097, 0.037000000]: Physics dynamic reconfigure ready.
[spawn_urdf-2] process has died [pid 10028, exit code 1, cmd
/opt/ros/noetic/lib/gazebo_ros/spawn_model -urdf -param map_description -model
competition_map __name:=spawn_urdf
__log:=/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2.log].
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# nano
~/catkin_ws/src/icra2024_qrc_simulation_map/launch/gazebo_world.launch
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "make cmake_check_build_system" in "/root/catkin_ws/build"
####
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# grep -rnw
~/catkin_ws/src/icra2024_qrc_simulation_map -e "ICRA2024_Quadruped_Competition"
/root/catkin_ws/src/icra2024_qrc_simulation_map/README.md:81:git clone
https://github.com/rise-lab-skku/ICRA2024_Quadruped_Competition
/root/catkin_ws/src/icra2024_qrc_simulation_map/README.md:93:roslaunch
ICRA2024_Quadruped_Competition gazebo_world.launch
/root/catkin_ws/src/icra2024_qrc_simulation_map/README.md:98:roslaunch
ICRA2024_Quadruped_Competition gazebo_world.launch map:=flat # or sloped
```

[illegible]

[illegible]

[illegible]

```
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:989:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:999:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1028:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1038:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1067:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1077:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1106:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1116:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1145:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1155:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1184:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1194:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1223:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1233:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>
/root/catkin_ws/src/icra2024_qrc_simulation_map/urdf/map_sloped.urdf:1262:    <mesh
filename="package://ICRA2024_Quadruped_Competition/meshes/visual/board_18x600x150
.obj"/>

/root/catkin_ws/src/icra2024_qrc_simulation_map/CMakeLists.txt:8:# LIBRARIES
ICRA2024_Quadruped_Competition
```

```

root@arnav-virtual-machine:~/catkin_ws# find
~/catkin_ws/src/icra2024_qrc_simulation_map -type f -exec sed -i
's/ICRA2024_Quadruped_Competition/icra2024_qrc_simulation_map/g' {} +
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# rm -rf build/ devel/ log/
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel
-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
####
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/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
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-10
321.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:37921/

SUMMARY

=====

PARAMETERS

```
* /gazebo/enable_ros_network: True
* /map_description: <?xml version="1....
* /roscdistro: noetic
* /rosversion: 1.17.0
* /use_sim_time: True
```

NODES

```
/
    gazebo (gazebo_ros/gzserver)
    spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [10331]
process[spawn_urdf-2]: started with pid [10334]
```



```
[ INFO] [1742876903.713771293]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742876903.720399050]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742876903.935145788]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[ INFO] [1742876908.092236046, 0.146000000]: Physics dynamic reconfigure ready.
[spawn_urdf-2] process has finished cleanly
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false map:=flat
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-10
413.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server <http://arnav-virtual-machine:43039/>

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /roscdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [10423]
process[spawn_urdf-2]: started with pid [10426]
[ INFO] [1742876990.260820064]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742876990.262006778]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742876990.461533912, 0.005000000]: waitForService: Service
[/gazebo/set_physics_properties] is now available.
```

```

[ INFO] [1742876990.486085305, 0.023000000]: Physics dynamic reconfigure ready.
[spawn_urdf-2] process has finished cleanly
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# source /opt/ros/noetic/setup.bash
root@arnav-virtual-machine:~/catkin_ws# export DISPLAY=:0
root@arnav-virtual-machine:~/catkin_ws# export QT_X11_NO_MITSHM=1
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch map:=flat
RLEException: [gazebo_world.launch] is neither a launch file in package
[icra2024_qrc_simulation_map] nor is [icra2024_qrc_simulation_map] a launch file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false map:=flat
RLEException: [gazebo_world.launch] is neither a launch file in package
[icra2024_qrc_simulation_map] nor is [icra2024_qrc_simulation_map] a launch file name
The traceback for the exception was written to the log file
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# rm -rf build/ devel/ log/
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel
-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
####
-- The C compiler identification is GNU 9.4.0
-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done

```

```

-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /opt/ros/noetic
-- This workspace overlays: /opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': 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
-- ~~~~~
-- ~ traversing 1 packages in topological order:
-- ~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# source devel/setup.bash
root@arnav-virtual-machine:~/catkin_ws# export DISPLAY=:0
root@arnav-virtual-machine:~/catkin_ws# export QT_X11_NO_MITSHM=1
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false map:=flat
... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-10
711.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

```

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server <http://arnav-virtual-machine:36767/>

SUMMARY

=====

PARAMETERS

```
* /gazebo/enable_ros_network: True
* /map_description: <?xml version="1....
* /rostdistro: noetic
* /rosversion: 1.17.0
* /use_sim_time: True
```

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

```
process[gazebo-1]: started with pid [10721]
process[spawn_urdf-2]: started with pid [10724]
[ INFO] [1742877665.322080870]: Finished loading Gazebo ROS API Plugin.
[ INFO] [1742877665.324638668]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[ INFO] [1742877666.201700407]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[ INFO] [1742877666.234807451, 0.018000000]: Physics dynamic reconfigure ready.
[spawn_urdf-2] process has finished cleanly
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2*.log
^C[gazebo-1] killing on exit
shutting down processing monitor...
... shutting down processing monitor complete
done
root@arnav-virtual-machine:~/catkin_ws# export DISPLAY=:0
root@arnav-virtual-machine:~/catkin_ws# export QT_X11_NO_MITSHM=1
root@arnav-virtual-machine:~/catkin_ws# cd ~/catkin_ws
root@arnav-virtual-machine:~/catkin_ws# rm -rf build/ devel/ log/
root@arnav-virtual-machine:~/catkin_ws# catkin_make
Base path: /root/catkin_ws
Source space: /root/catkin_ws/src
Build space: /root/catkin_ws/build
Devel space: /root/catkin_ws/devel
Install space: /root/catkin_ws/install
####
#### Running command: "cmake /root/catkin_ws/src
-DCATKIN_DEVEL_PREFIX=/root/catkin_ws/devel
-DCMAKE_INSTALL_PREFIX=/root/catkin_ws/install -G Unix Makefiles" in
"/root/catkin_ws/build"
####
-- The C compiler identification is GNU 9.4.0
```

```

-- The CXX compiler identification is GNU 9.4.0
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Using CATKIN_DEVEL_PREFIX: /root/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /root/catkin_ws/devel;/opt/ros/noetic
-- This workspace overlays: /root/catkin_ws/devel;/opt/ros/noetic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.8.10", minimum 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: /root/catkin_ws/build/test_results
-- Forcing gtest/gmock from source, though one was otherwise available.
-- Found gtest sources under '/usr/src/gtest': gtests will be built
-- Found gmock sources under '/usr/src/gtest': 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
-- ~~~~~
-- ~~ traversing 1 packages in topological order:
-- ~~ - icra2024_qrc_simulation_map
-- ~~~~~
-- +++ processing catkin package: 'icra2024_qrc_simulation_map'
-- ==> add_subdirectory(icra2024_qrc_simulation_map)
-- Configuring done
-- Generating done
-- Build files have been written to: /root/catkin_ws/build
####
#### Running command: "make -j2 -l2" in "/root/catkin_ws/build"
####
root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map
gazebo_world.launch gui:=false map:=flat

```

... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-10971.log

Checking log directory for disk usage. This may take a while.

Press Ctrl-C to interrupt

Done checking log file disk usage. Usage is <1GB.

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:46807/

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /roscdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

process[gazebo-1]: started with pid [10981]

process[spawn_urdf-2]: started with pid [10984]

[INFO] [1742878629.613107210]: Finished loading Gazebo ROS API Plugin.

[INFO] [1742878629.615779964]: waitForService: Service [/gazebo/set_physics_properties] has not been advertised, waiting...

[INFO] [1742878630.101962840]: waitForService: Service [/gazebo/set_physics_properties] is now available.

[INFO] [1742878630.165419535, 0.011000000]: Physics dynamic reconfigure ready.

[spawn_urdf-2] process has finished cleanly

log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2*.log

^C[gazebo-1] killing on exit

shutting down processing monitor...

... shutting down processing monitor complete

done

root@arnav-virtual-machine:~/catkin_ws# export DISPLAY=:0

root@arnav-virtual-machine:~/catkin_ws# export QT_X11_NO_MITSHM=1

root@arnav-virtual-machine:~/catkin_ws# sudo chmod 1777 /tmp/.X11-unix

chmod: cannot access '/tmp/.X11-unix': No such file or directory

root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map

gazebo_world.launch gui:=false map:=flat

... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-11067.log

Checking log directory for disk usage. This may take a while.

Press Ctrl-C to interrupt

Done checking log file disk usage. Usage is <1GB.

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:45335/

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /roscdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

```
/
  gazebo (gazebo_ros/gzserver)
  spawn_urdf (gazebo_ros/spawn_model)
```

ROS_MASTER_URI=http://localhost:11311

process[gazebo-1]: started with pid [11077]

process[spawn_urdf-2]: started with pid [11081]

[INFO] [1742878711.292686123]: Finished loading Gazebo ROS API Plugin.

[INFO] [1742878711.296465354]: waitForService: Service [/gazebo/set_physics_properties] has not been advertised, waiting...

[INFO] [1742878711.893341137]: waitForService: Service [/gazebo/set_physics_properties] is now available.

[INFO] [1742878711.939707615]: Physics dynamic reconfigure ready.

[spawn_urdf-2] process has finished cleanly

log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-2*.log

^C[gazebo-1] killing on exit

shutting down processing monitor...

... shutting down processing monitor complete

done

root@arnav-virtual-machine:~/catkin_ws# sudo mkdir /tmp/.X11-unix

root@arnav-virtual-machine:~/catkin_ws# sudo chmod 1777 /tmp/.X11-unix

root@arnav-virtual-machine:~/catkin_ws# export DISPLAY=:0

root@arnav-virtual-machine:~/catkin_ws# export QT_X11_NO_MITSHM=1

root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map gazebo_world.launch gui:=true map:=flat

... logging to
/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-11165.log

Checking log directory for disk usage. This may take a while.

Press Ctrl-C to interrupt

Done checking log file disk usage. Usage is <1GB.

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:40811/

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /roscdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

/

- gazebo (gazebo_ros/gzserver)
- gazebo_gui (gazebo_ros/gzclient)
- spawn_urdf (gazebo_ros/spawn_model)

ROS_MASTER_URI=http://localhost:11311

process[gazebo-1]: started with pid [11175]
process[gazebo_gui-2]: started with pid [11179]
process[spawn_urdf-3]: started with pid [11183]
[INFO] [1742878840.382882078]: Finished loading Gazebo ROS API Plugin.
[INFO] [1742878840.384875262]: waitForService: Service [/gazebo/set_physics_properties]
has not been advertised, waiting...
[INFO] [1742878840.567334827]: Finished loading Gazebo ROS API Plugin.
[INFO] [1742878840.571395105]: waitForService: Service
[/gazebo_gui/set_physics_properties] has not been advertised, waiting...
[INFO] [1742878841.054626719]: waitForService: Service [/gazebo/set_physics_properties]
is now available.
[INFO] [1742878841.179655744, 0.054000000]: Physics dynamic reconfigure ready.
context mismatch in svga_surface_destroy
context mismatch in svga_surface_destroy
[spawn_urdf-3] process has finished cleanly
log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3*.log
Exception sending a multicast message:Network is unreachable
Exception sending a multicast message:Network is unreachable
Exception sending a multicast message:Network is unreachable
Exception sending a multicast message:Network is unreachable

Exception sending a multicast message:Network is unreachable
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Exception sending a multicast message:Network is unreachable
Exception sending a multicast message:Network is unreachable

^C[gazebo_gui-2] killing on exit

[gazebo-1] killing on exit

[gazebo_gui-2] escalating to SIGTERM

shutting down processing monitor...

... shutting down processing monitor complete

done

root@arnav-virtual-machine:~/catkin_ws# docker ps

bash: docker: command not found

root@arnav-virtual-machine:~/catkin_ws# roslaunch icra2024_qrc_simulation_map

gazebo_world.launch gui:=true map:=flat

... logging to

/root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/roslaunch-arnav-virtual-machine-11900.log

Checking log directory for disk usage. This may take a while.

Press Ctrl-C to interrupt

Done checking log file disk usage. Usage is <1GB.

xacro: in-order processing became default in ROS Melodic. You can drop the option.
started roslaunch server http://arnav-virtual-machine:44471/

SUMMARY

=====

PARAMETERS

- * /gazebo/enable_ros_network: True
- * /map_description: <?xml version="1....
- * /roscdistro: noetic
- * /rosversion: 1.17.0
- * /use_sim_time: True

NODES

/

gazebo (gazebo_ros/gzserver)

gazebo_gui (gazebo_ros/gzclient)

spawn_urdf (gazebo_ros/spawn_model)

ROS_MASTER_URI=http://localhost:11311

process[gazebo-1]: started with pid [11910]

process[gazebo_gui-2]: started with pid [11913]

process[spawn_urdf-3]: started with pid [11917]

[INFO] [1742879455.515583652]: Finished loading Gazebo ROS API Plugin.

[INFO] [1742879455.517317194]: waitForService: Service [/gazebo/set_physics_properties] has not been advertised, waiting...

[INFO] [1742879455.578793009]: waitForService: Service [/gazebo_gui/set_physics_properties] has not been advertised, waiting...

[INFO] [1742879455.581046702]: Finished loading Gazebo ROS API Plugin.

[INFO] [1742879456.048468353]: waitForService: Service [/gazebo/set_physics_properties] is now available.

[INFO] [1742879456.082200750, 0.009000000]: Physics dynamic reconfigure ready.

context mismatch in svg_surface_destroy

context mismatch in svg_surface_destroy

[spawn_urdf-3] process has finished cleanly

log file: /root/.ros/log/e1ae51c2-08de-11f0-90ea-000c298e822d/spawn_urdf-3*.log