

P3 Report: dgp34

The following are a series of images showing successful operation of the action client and action server:

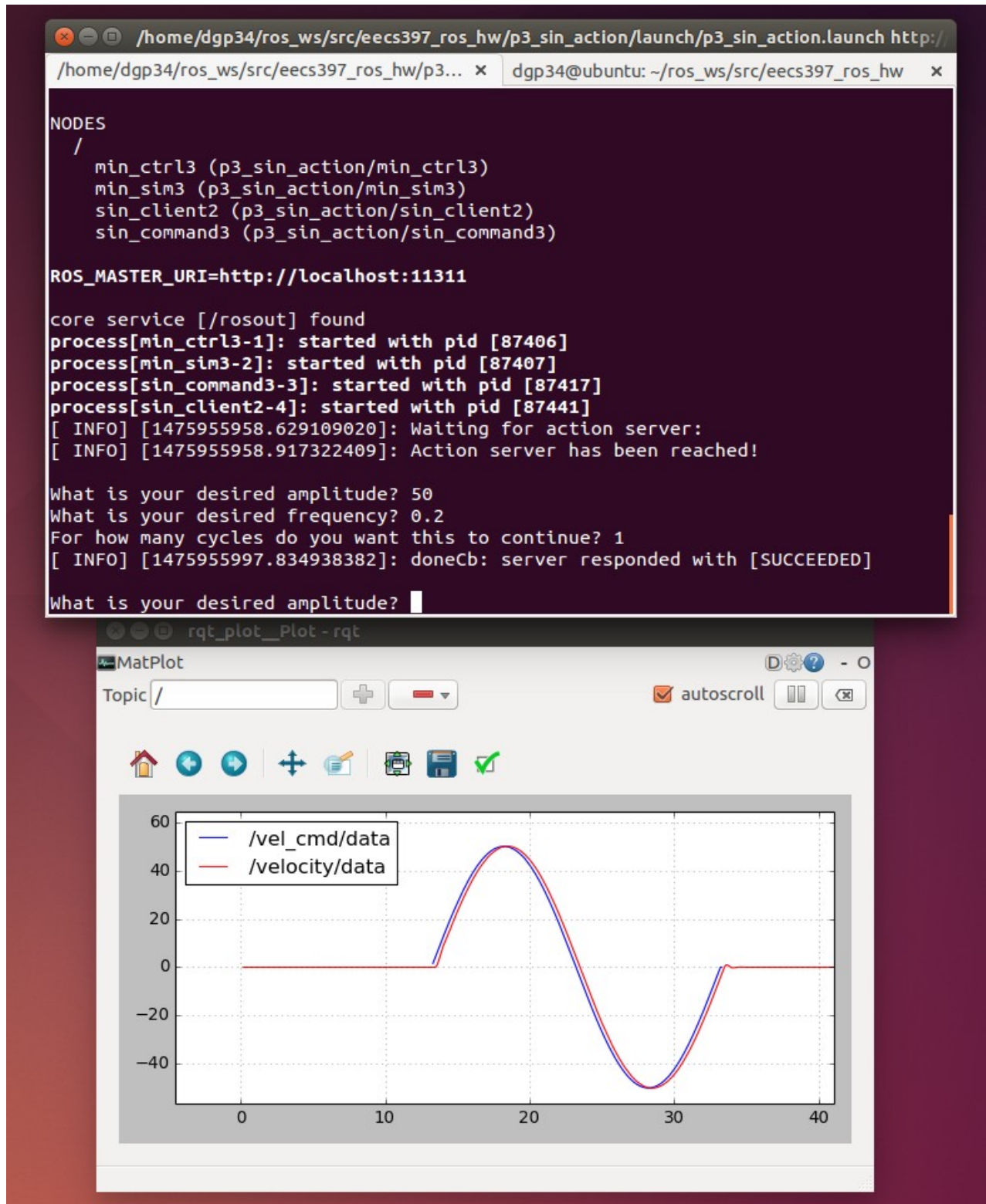


Fig. 1: Input of 50 amplitude, 0.2 frequency, 1 cycle. Success.

```

/home/dgp34/ros_ws/src/eecs397_ros_hw/p3_sin_action/launch/p3_sin_action.launch http://
/home/dgp34/ros_ws/src/eecs397_ros_hw/p3... x dgp34@ubuntu: ~/ros_ws/src/eecs397_ros_hw x
sin_client2 (p3_sin_action/sin_client2)
sin_command3 (p3_sin_action/sin_command3)

ROS_MASTER_URI=http://localhost:11311

core service [/rosout] found
process[min_ctrl3-1]: started with pid [87406]
process[min_sim3-2]: started with pid [87407]
process[sin_command3-3]: started with pid [87417]
process[sin_client2-4]: started with pid [87441]
[ INFO] [1475955958.629109020]: Waiting for action server:
[ INFO] [1475955958.917322409]: Action server has been reached!

What is your desired amplitude? 50
What is your desired frequency? 0.2
For how many cycles do you want this to continue? 1
[ INFO] [1475955997.834938382]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 10
What is your desired frequency? 10
For how many cycles do you want this to continue? 10
[ INFO] [1475956038.850981830]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 

```

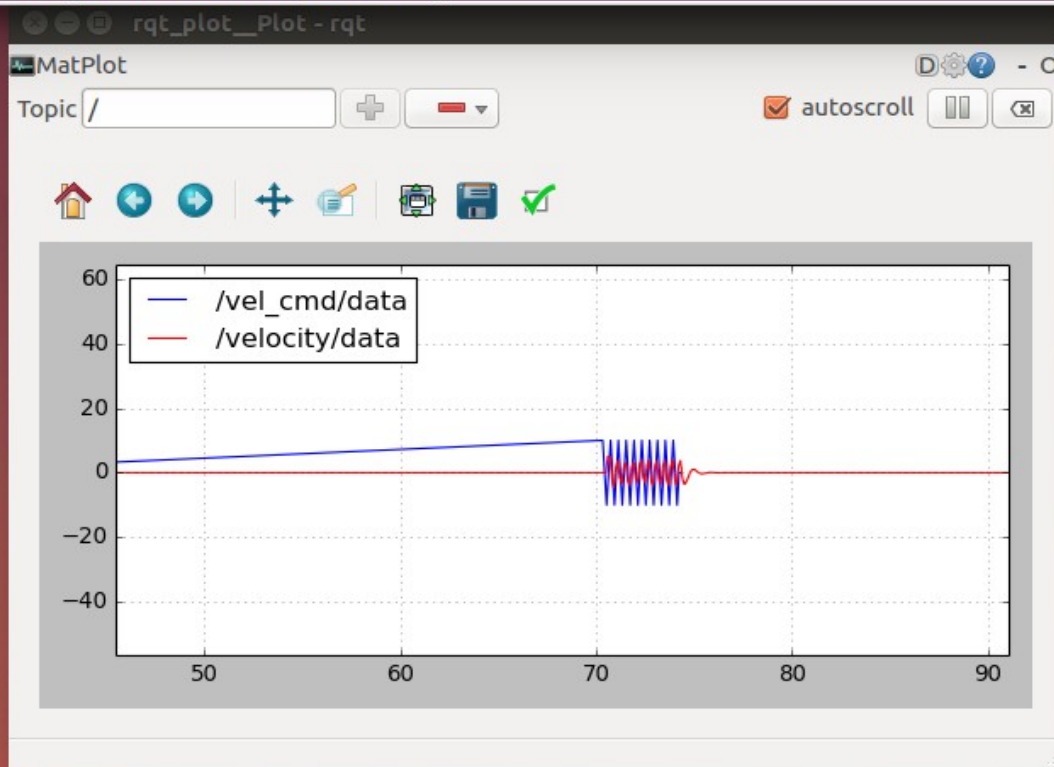


Fig. 2: Input of 10 amplitude, 10 frequency, 10 cycles. Success.

```

/home/dgp34/ros_ws/src/eecs397_ros_hw/p3_sin_action/launch/p3_sin_action.launch http://
/home/dgp34/ros_ws/src/eecs397_ros_hw/p3... x dgp34@ubuntu: ~/ros_ws/src/eecs397_ros_hw x

NODES
/
  min_ctrl3 (p3_sin_action/min_ctrl3)
  min_sim3 (p3_sin_action/min_sim3)
  sin_client2 (p3_sin_action/sin_client2)
  sin_command3 (p3_sin_action/sin_command3)

ROS_MASTER_URI=http://localhost:11311

core service [/rosout] found
process[min_ctrl3-1]: started with pid [87694]
process[min_sim3-2]: started with pid [87695]
process[sin_command3-3]: started with pid [87718]
process[sin_client2-4]: started with pid [87734]
[ INFO] [1475956144.425212551]: Waiting for action server:
[ INFO] [1475956144.567259870]: Action server has been reached!

What is your desired amplitude? 50
What is your desired frequency? 10
For how many cycles do you want this to continue? 100
[ INFO] [1475956208.008738407]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 

```

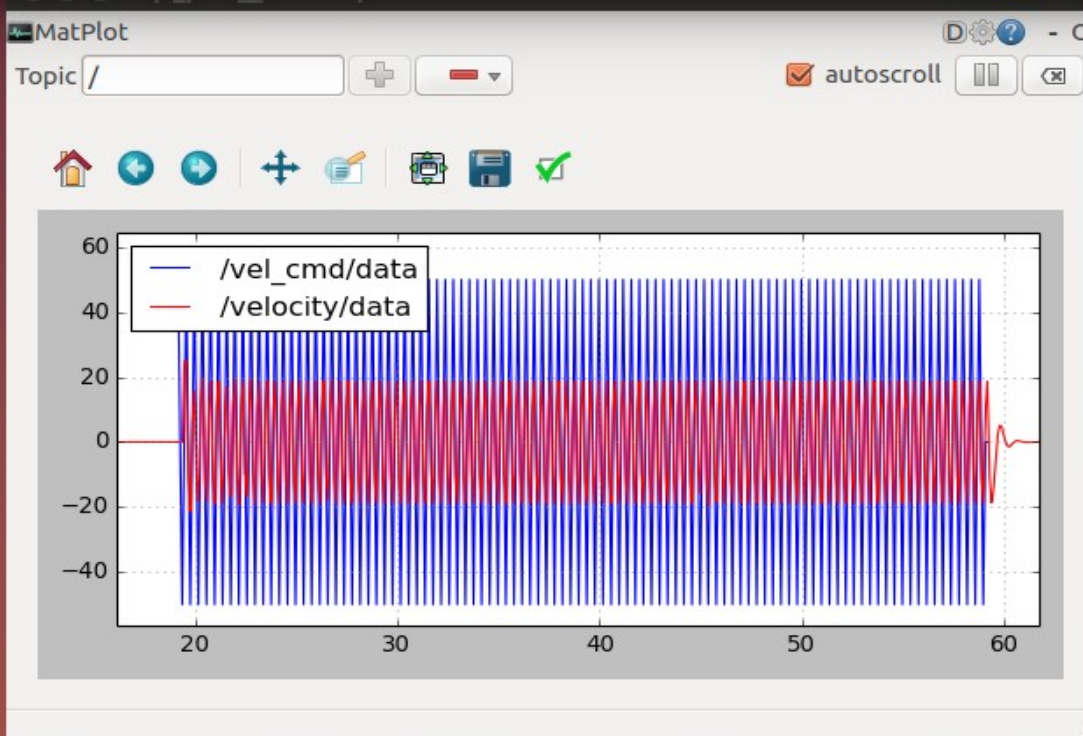


Fig. 3: Input of 50 amplitude, 10 frequency, 100 cycles. Success.


```
/home/dgp34/ros_ws/src/eecs397_ros_hw/p3_sin_action/launch/p3_sin_action.launch http://
/home/dgp34/ros_ws/src/eecs397_ros_hw/p3... x dgp34@ubuntu: ~/ros_ws/src/eecs397_ros_hw x

sin_client2 (p3_sin_action/sin_client2)
sin_command3 (p3_sin_action/sin_command3)

ROS_MASTER_URI=http://localhost:11311

core service [/rosout] found
process[min_ctrl3-1]: started with pid [87694]
process[min_sim3-2]: started with pid [87695]
process[sin_command3-3]: started with pid [87718]
process[sin_client2-4]: started with pid [87734]
[ INFO] [1475956144.425212551]: Waiting for action server:
[ INFO] [1475956144.567259870]: Action server has been reached!

What is your desired amplitude? 50
What is your desired frequency? 10
For how many cycles do you want this to continue? 100
[ INFO] [1475956208.008738407]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 0
What is your desired frequency? 0
For how many cycles do you want this to continue? 0
[ INFO] [1475956321.134668890]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? █
```

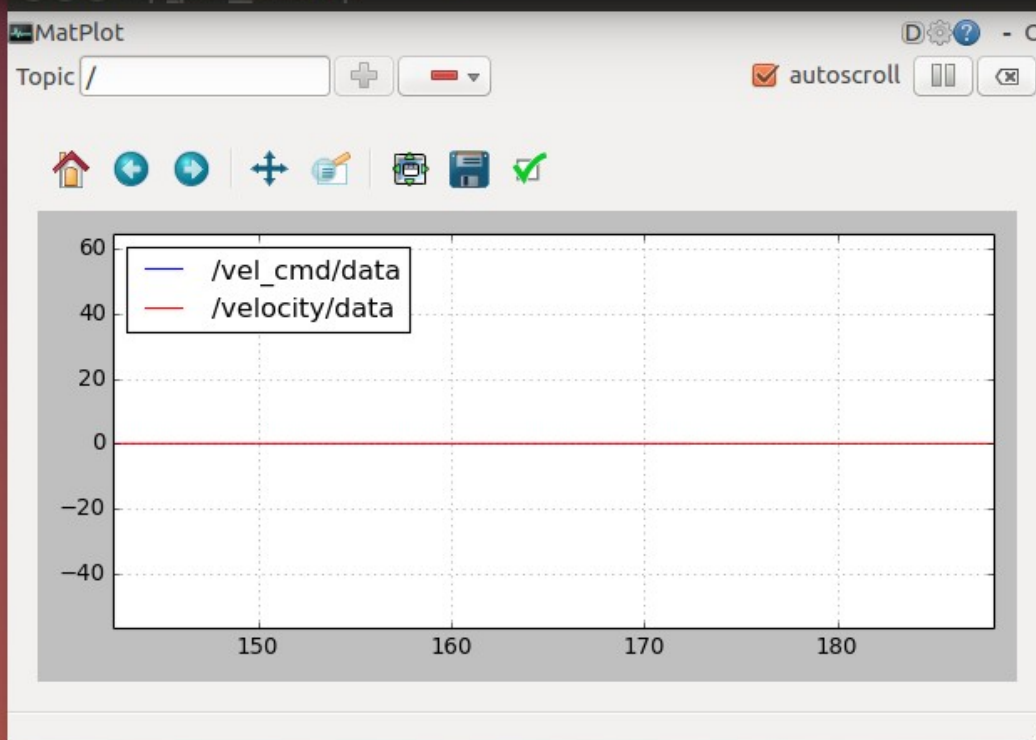


Fig. 4: Special case—Input of 0 amplitude, 0 frequency, 0 cycles. Success.

```

/home/dgp34/ros_ws/src/eecs397_ros_hw/p3_sin_action/launch/p3_sin_action.launch http://
/home/dgp34/ros_ws/src/eecs397_ros_hw/p3... x dgp34@ubuntu: ~/ros_ws/src/eecs397_ros_hw x
core service [/rosout] found
process[min_ctrl3-1]: started with pid [87694]
process[min_sim3-2]: started with pid [87695]
process[sin_command3-3]: started with pid [87718]
process[sin_client2-4]: started with pid [87734]
[ INFO] [1475956144.425212551]: Waiting for action server:
[ INFO] [1475956144.567259870]: Action server has been reached!

What is your desired amplitude? 50
What is your desired frequency? 10
For how many cycles do you want this to continue? 100
[ INFO] [1475956208.008738407]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 0
What is your desired frequency? 0
For how many cycles do you want this to continue? 0
[ INFO] [1475956321.134668890]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 500
What is your desired frequency? 0
For how many cycles do you want this to continue? 50000
[ INFO] [1475956418.179263725]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 

```

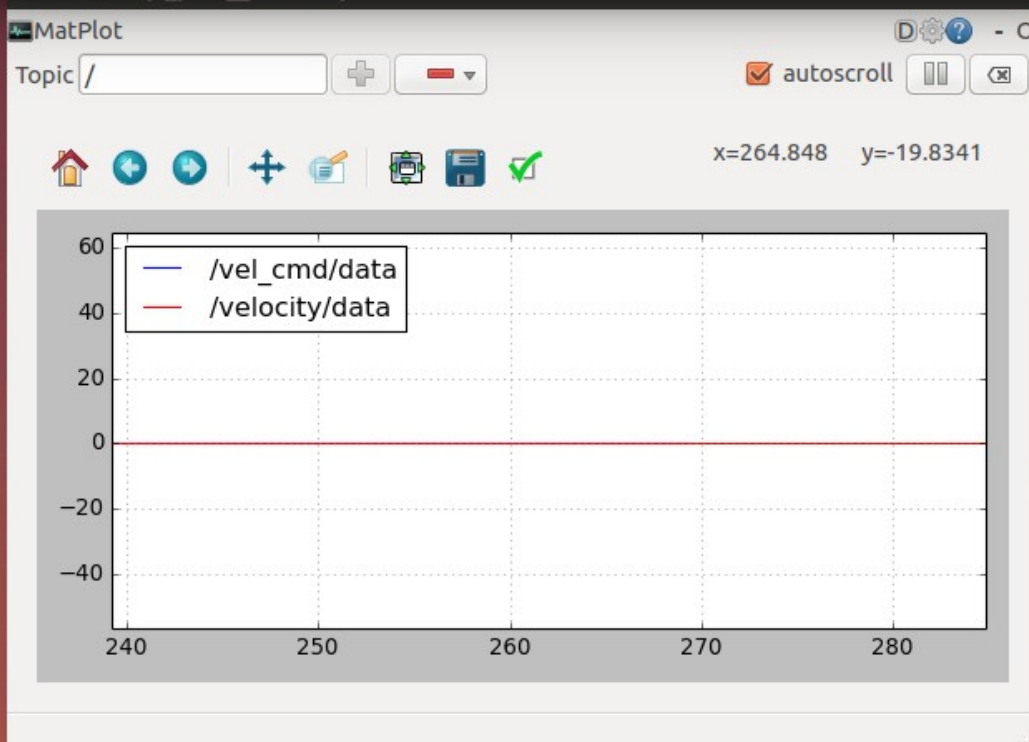


Fig. 5: Demonstration of special case—in the code, frequency is in a denominator position. However, if 0, the code is short-circuited in order to prevent errors. Input 500 amplitude, 0 frequency, 50000 cycles. Success.

```

/home/dgp34/ros_ws/src/eecs397_ros_hw/p3_sin_action/launch/p3_sin_action.launch http://
/home/dgp34/ros_ws/src/eecs397_ros_hw/p3... x dgp34@ubuntu: ~/ros_ws/src/eecs397_ros_hw x
[ INFO] [1475956144.425212551]: Waiting for action server:
[ INFO] [1475956144.567259870]: Action server has been reached!

What is your desired amplitude? 50
What is your desired frequency? 10
For how many cycles do you want this to continue? 100
[ INFO] [1475956208.008738407]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 0
What is your desired frequency? 0
For how many cycles do you want this to continue? 0
[ INFO] [1475956321.134668890]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 500
What is your desired frequency? 0
For how many cycles do you want this to continue? 50000
[ INFO] [1475956418.179263725]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 50
What is your desired frequency? 0.2
For how many cycles do you want this to continue? 1
[ INFO] [1475956464.409529736]: doneCb: server responded with [SUCCEEDED]

What is your desired amplitude? 

```

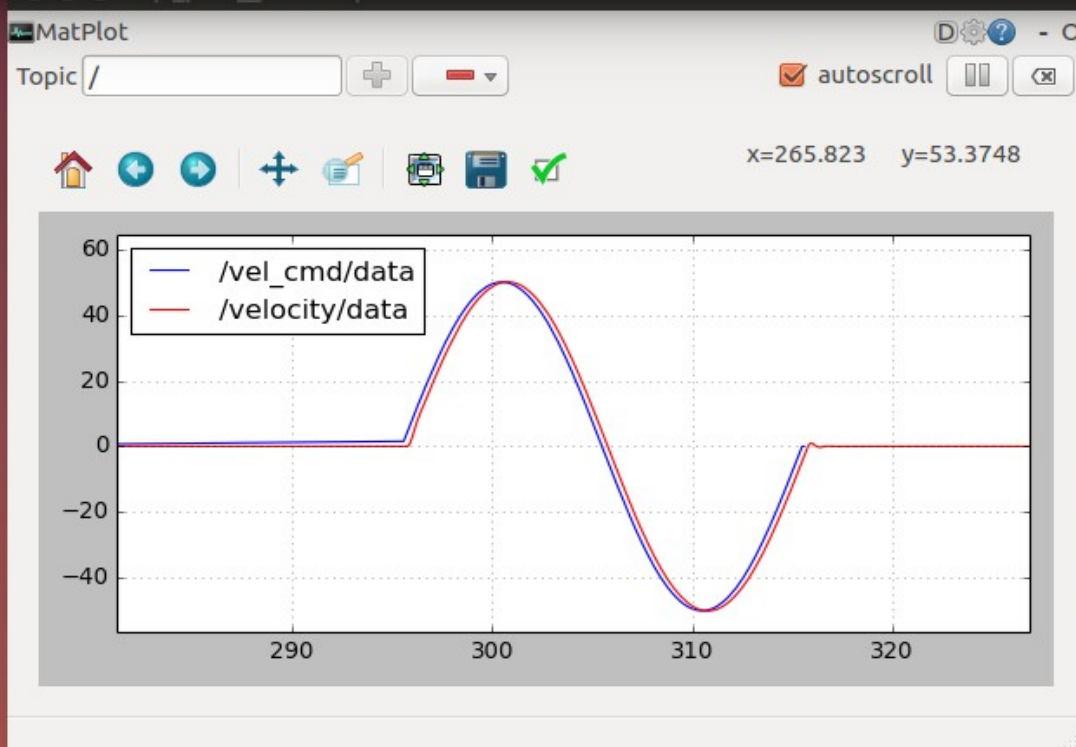


Fig. 6: Input of 50 amplitude, 0.2 frequency, 1 cycle, as in Fig. 1, just to show lack of errors after previous inputs. Success.