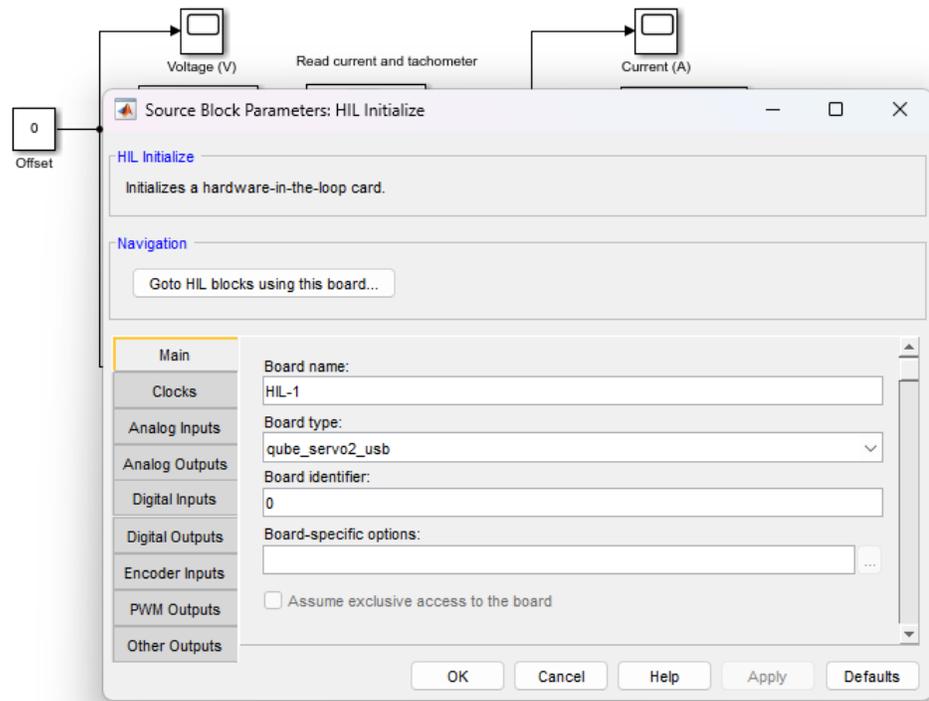
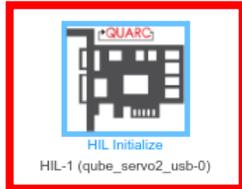


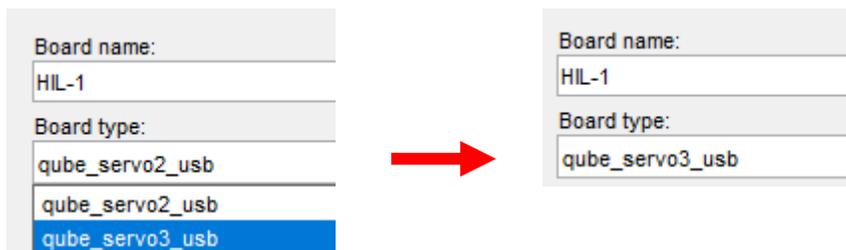
Simulink Setup for Qube-Servo 3 Hardware Users

QUBE-Servo 2 labs are compatible with Qube-Servo 3. There are just two simple steps to get the Simulink files working with your Qube-Servo 3.

1. Locate the **HIL Initialize block** in your Simulink model and double click on it.



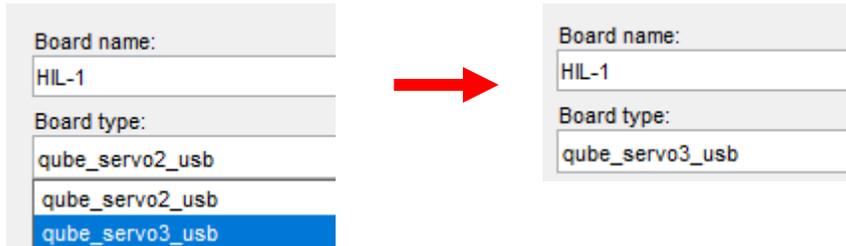
2. Change the **board type** in the parameter window from qube_servo2_usb to qube_servo3_usb.



3. Your model will now work with a Qube-Servo 3.

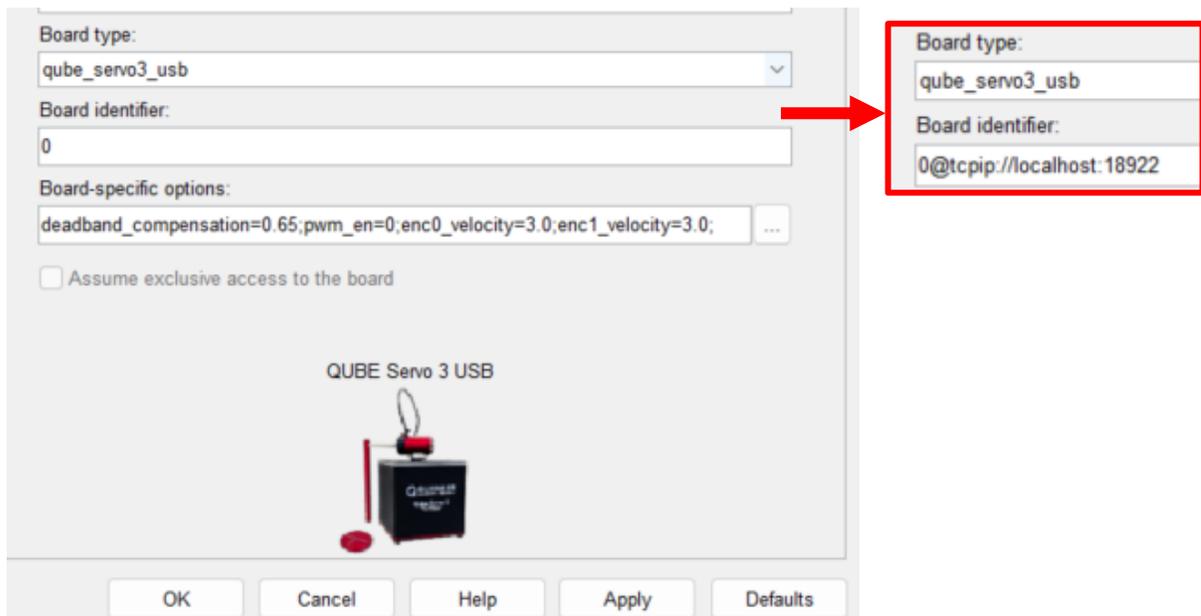
Simulink Setup for Virtual Qube-Servo 3 Users

1. Follow the instructions above to change from qube_servo2_usb to qube_servo3_usb.



The diagram illustrates the change in board configuration. On the left, a 'Board name' field contains 'HIL-1' and a 'Board type' dropdown menu is set to 'qube_servo2_usb'. A red arrow points to the right, where the 'Board type' dropdown menu is now set to 'qube_servo3_usb'.

2. Once that is done, configure the board identifier to connect to the virtual Qube-Servo 3. To do this, change the board identifier and add '@tcpip://localhost:port' at the end. If using the virtual Qube 3 – DC Motor, the port number is 18922, and 18923 if using the Qube 3 – Pendulum in Quanser interactive labs. It should look like the following picture.



The screenshot shows the 'QUBE Servo 3 USB' configuration dialog box. The 'Board type' dropdown is set to 'qube_servo3_usb'. The 'Board identifier' field contains '0'. A red box highlights the 'Board type' and 'Board identifier' fields, with a red arrow pointing to the updated 'Board identifier' value: '0@tcpip://localhost:18922'. The 'Board-specific options' field contains 'deadband_compensation=0.65;pwm_en=0;enc0_velocity=3.0;enc1_velocity=3.0;'. There is an unchecked checkbox for 'Assume exclusive access to the board'. At the bottom, there are buttons for 'OK', 'Cancel', 'Help', 'Apply', and 'Defaults'. An image of the QUBE Servo 3 USB hardware is shown at the bottom center.