

```

Jumana_aladani@DESKTOP-0E4A096:~$ ros launch robot_arm_pkg check_motors.launch
[roslaunch robot_arm_pkg] * Launch file name
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Jumana_aladani@DESKTOP-0E4A096:~$ ros launch robot_arm_pkg check_motors.launch
[roslaunch robot_arm_pkg] * Launch file name
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Jumana_aladani@DESKTOP-0E4A096:~$ sudo nano -f .bashrc
[sudo] password for jumana_aladani:
Jumana_aladani@DESKTOP-0E4A096:~$ source -f .bashrc
bash: /home/jumana/catkin_ws/devel/setup.bash: No such file or directory
Jumana_aladani@DESKTOP-0E4A096:~$ sudo nano -f .bashrc
Jumana_aladani@DESKTOP-0E4A096:~$ source -f .bashrc
Jumana_aladani@DESKTOP-0E4A096:~$ roslaunch robot_arm_pkg check_motors.launch
... logging to /home/jumana_aladani/.ros/log/22229912-d9c-11eb-b07f-00002746c6a6
bzip2: cannot find 'bzip2' program
Checking log directory for disk usage. This may take awhile.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

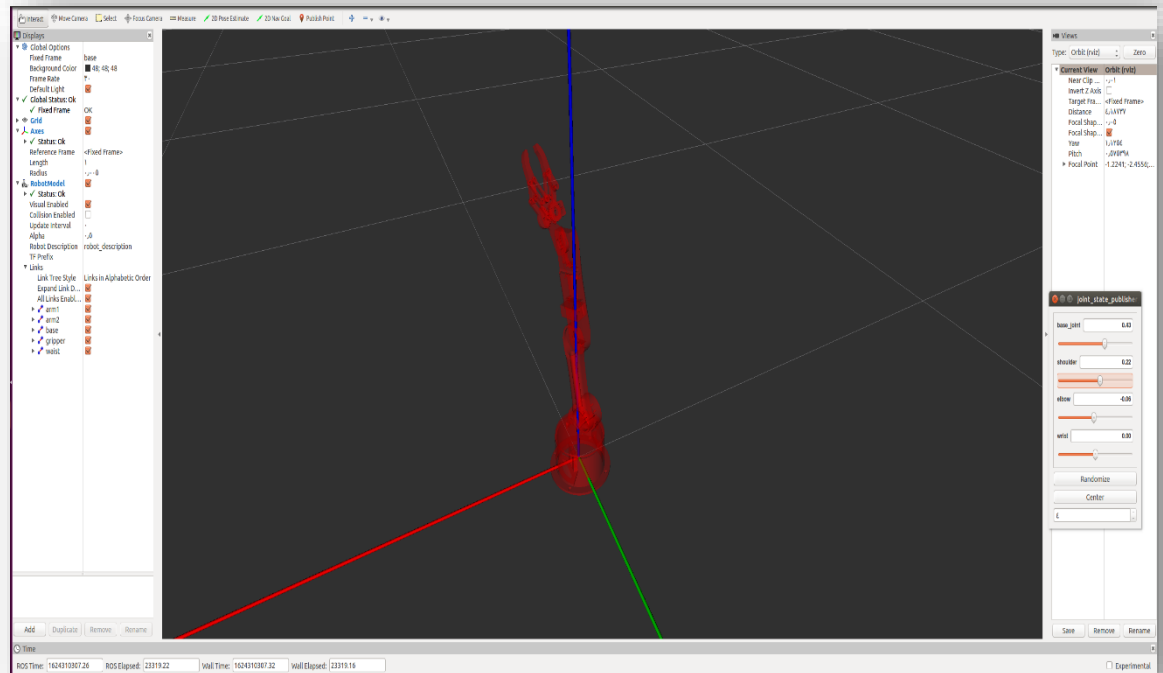
started roslaunch server http://DESKTOP-0E4A096:38531/

SUMMARY
=====
PACKAGE NAME
  * /robot_description: <?xml version="1.0" ...
  * /roslaunch: kinetic
  * /rosversion: 1.12.12

NODES
  /
    joint_state_publisher_gui (joint_state_publisher_gui/joint_state_publisher_0
    ui)
    robot_state_publisher (robot_state_publisher/robot_state_publisher)
    rviz (rviz/rviz)

auto-starting new master
process[master]: started with pid [8167]
ROS_MASTER_URI=http://localhost:11311

setting /run_id to 22229912-d9c-11eb-b07f-00002746c6a6
process[roscpp]: started with pid [8266]
started core service [/roscpp]
process[robot_state_publisher]: started with pid [8268]
process[rviz-3]: started with pid [8268]
process[joint_state_publisher_gui-4]: started with pid [8306]
[INFO] [162471012.1001016]: Centering
  
```



الأكواد المستخدمة للنزاع:

```
sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb_release -sc)
main" > /etc/apt/sources.list.d/ros-latest.list'

sudo apt-key adv --keyserver 'hkp://keyserver.ubuntu.com:80' --recv-key
C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654

sudo apt-get update

sudo apt-get install ros-kinetic-desktop-full

apt-cache search ros-kinetic

echo "source /opt/ros/kinetic/setup.bash" >> ~/.bashrc
source ~/.bashrc

sudo apt install python-rosdep python-rosinstall python-rosinstall-generator
python-wstool build-essential

sudo apt install python-rosdep

sudo rosdep init

rosdep update

sudo apt-get install ros-noetic-catkin

mkdir -p ~/catkin_ws/src

cd ~/catkin_ws/

catkin_make

cd ~/catkin_ws/src

git clone https://github.com/smart-methods/arduino_robot_arm.git

cd ~/catkin_ws

rosdep install --from-paths src --ignore-src -r -y

sudo apt-get install ros-kinetic-moveit

sudo apt-get install ros-kinetic-joint-state-publisher ros-kinetic-joint-
state-publisher-gui

sudo apt-get install ros-kinetic-gazebo-ros-control joint-state-publisher

sudo apt-get install ros-kinetic-ros-controllers ros-kinetic-ros-control

sudo nano ~/.bashrc

at the end of the (bashrc) file add the follwing line
(source /home/jumana_aladani/catkin_ws/devel/setup.bash)
then
ctrl + o

source ~/.bashrc

roslaunch robot_arm_pkg check_motors.launch
```