

Robot operation system

Description

Robot operation system, 一套框架，底层提供硬件驱动，软件层面支持通用的文件格式，我们这次的实验是要安装ROS

具体修改的方法

Setup your sources.list

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

Set up your keys

```
sudo apt-key adv --keyserver hkp://ha.pool.sks-keyservers.net:80 --recv-key 0xB01FA116
```

安装

```
sudo apt-get update
sudo apt-get install ros-jade-desktop-full
```

```

guanzhuoqun@ubuntu: ~
Hit http://mirrors.aliyun.com trusty/main Translation-en
Hit http://mirrors.aliyun.com trusty/multiverse Translation-en
Hit http://mirrors.aliyun.com trusty/restricted Translation-en
Get:2 http://packages.ros.org trusty InRelease [4,031 B]
Hit http://mirrors.aliyun.com trusty/universe Translation-en
Get:3 http://packages.ros.org trusty/main amd64 Packages [769 kB]
Ign http://mirrors.aliyun.com trusty/main Translation-en_US
Ign http://mirrors.aliyun.com trusty/multiverse Translation-en_US
Ign http://mirrors.aliyun.com trusty/restricted Translation-en_US
Ign http://mirrors.aliyun.com trusty/universe Translation-en_US
Ign http://extras.ubuntu.com trusty/main Translation-en_US
Ign http://extras.ubuntu.com trusty/main Translation-en
Get:4 http://packages.ros.org trusty/main i386 Packages [769 kB]
Ign http://packages.ros.org trusty/main Translation-en_US
Ign http://packages.ros.org trusty/main Translation-en
Fetched 1,543 kB in 14s (107 kB/s)
Reading package lists... Done
guanzhuoqun@ubuntu:~$ sudo apt-get install ros-jade-desktop-full
Reading package lists... Done
Building dependency tree
Reading state information... Done
ros-jade-desktop-full is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 90 not upgraded.

```

初始化

```

sudo rosdep init
rosdep update

```

```

guanzhuoqun@ubuntu: ~
Reading state information... Done
ros-jade-desktop-full is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 90 not upgraded.
guanzhuoqun@ubuntu:~$ sudo rosdep init
ERROR: default sources list file already exists:
       /etc/ros/rosdep/sources.list.d/20-default.list
Please delete if you wish to re-initialize
guanzhuoqun@ubuntu:~$ rosdep update
reading in sources list data from /etc/ros/rosdep/sources.list.d
Hit https://raw.githubusercontent.com/ros/rosdistro/master/rosdep/osx-homebrew.y
aml
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/inc
ex.yaml
Add distro "groovy"
Add distro "hydro"
Add distro "indigo"
Add distro "jade"
Add distro "kinetic"
updated cache in /home/guanzhuoqun/.ros/rosdep/sources.cache

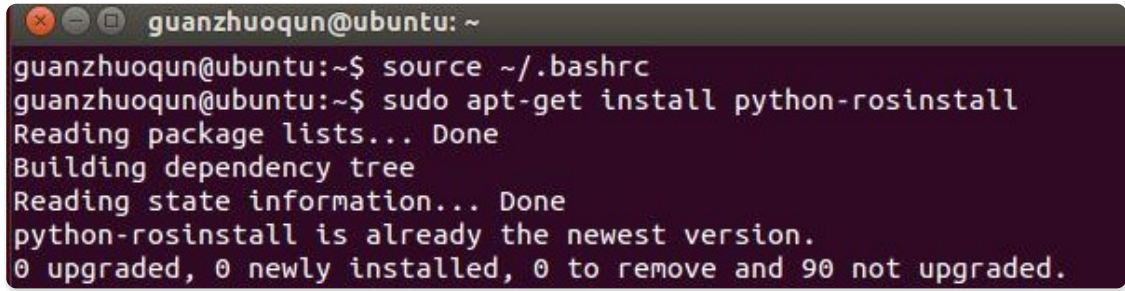
```

环境设置

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

roinstall

```
sudo apt-get install python-roinstall
```

A terminal window with a dark background and light text. The window title is 'guanzhuoqun@ubuntu: ~'. The terminal shows the following commands and output:

```
guanzhuoqun@ubuntu:~$ source ~/.bashrc  
guanzhuoqun@ubuntu:~$ sudo apt-get install python-roinstall  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
python-roinstall is already the newest version.  
0 upgraded, 0 newly installed, 0 to remove and 90 not upgraded.
```

实验感想