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CAT Vehicle Testbed

CPS-VO » CAT VEHICLE TESTBED





Home

Submitted by sprinkle on Mon, 05/30/2016 - 12:53pm

About

Installing ROS in a new virtual machine

Get Started

installing Ubuntu, note that:

Current release uses ROS Indigo, so you should install Ubuntu 14.04 and follow the tutorials found on the ROS installation page. When

We only support ROS Indigo on Ubuntu 14.04 (Trusty Tahr) on VMWare (or bare metal).

Videos

■ We have had trouble with network connectivity using Virtual Box

Forums

ROS Kinetic and Jade will have compile failures with our software

Files

- Newer versions of Ubuntu may not run ROS Indigo from apt binaries
- you should ensure you are using 14.04 (Trusty Tahr) and not a newer version
- we recommend 80GB of storage (permits you to also install MATLAB/Simulink and store large logfiles)

MEMBER INFO

The ROS installation page is at http://wiki.ros.org/indigo/Installation/Ubuntu

Additional ROS package installation

After installing ROS, we require the additional packages to be installed:

Controller manager (allows the car to move around with ROS messages)

```
sudo apt-get install ros-indigo-controller-manager
sudo apt-get install ros-indigo-ros-control ros-indigo-ros-controllers
sudo apt-get install ros-indigo-gazebo-ros-control
```

Velodyne

sudo apt-get install ros-indigo-velodyne

SICK Laser

sudo apt-get install ros-indigo-sicktoolbox ros-indigo-sicktoolbox-wrapper

Joystick control

sudo apt-get install ros-indigo-joystick-drivers

Localization packages

These enable SLAM-based localization.

sudo apt-get install ros-indigo-hector-slam ros-indigo-hector-mapping

Hardware installation

NovAtel GPS

Unless you plan on decode GPS data on your laptop directly from hardware, this package is optional.

 $\verb|sudo| \verb|apt-get| install | \verb|ros-indigo-novatel-span-driver| \\$

Downloading the release

Head over to the Compile the release tutorial to get it downloaded and build, and ready to run!

Backlinks:

- Driving with a ps joystick
- Running hector_slam with the CAT Vehicle
- Main Wiki Page

PDF version | Printer-friendly version

catvehicle_v2

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