Networking

Introduction

ROS can be used across a network, with different nodes running on different computers. One computer should be designated as the "server" computer, which runs the rosmaster server (this program, along with a few others, is started up when you run `roscore`). It makes little difference as to which computer runs `roscore`, as the server is not a CPU-intensive task. For convenience, we always set the sub to be our rosmaster server.

ROS relies heavily on DNS resolution to map computer hostnames to ip addresses. Normally our router does the DNS resolution, therefore minimal configuration is necessary for network setup.

Sub Setup

Open up your ~/.bashrc and add the following line:

```
export ROS_MASTER_URI="http://cobalt:11311"
```

Personal Computer Setup

Open up your ~/.bashrc and add the following line:

```
export ROS_MASTER_URI="http://cobalt:11311"
```

From:
<https://robosub.eecs.wsu.edu/wiki/> - **Palouse RoboSub Technical Documentation**

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https://robosub.eecs.wsu.edu/wiki/cs/ros/networking/start?rev=1507835047

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