

Prometheus mirror quick guide

The first step is to update the system

```
sudo apt-get update
```

The second step, download and compile

Download prometheus_px4:

Open a terminal (ctrl+alt+t) and execute the following download command:

```
git clone https://gitee.com/amovlab/prometheus_px4.git
```

Compile prometheus_px4:

Enter the prometheus_px4 path, update the submodule first, and then compile the software-in-the-loop code, the instructions are as follows:

```
cd prometheus_px4/
```

```
make submodulesclean update the submodules for a little longer (5 minutes) (or use git submodules update --init --recursive)
```

```
make amovlab_sitl_default (compilation instruction)
```

Download the Prometheus code:

Open a new terminal (ctrl+alt+t), the download instruction is as follows:

```
git clone https://gitee.com/amovlab/Prometheus.git
```

Compile Prometheus code

Enter the Prometheus code directory and execute the compilation instructions as follows:

```
cd Prometheus/  
  
./compile_all.sh
```

If the downloading and compiling are executed normally, so far, congratulations, the downloading and compiling are executed very well, and all open terminals can be closed.

The third step, test whether the system is normal

Test prometheus_px4

Open a new terminal, enter the prometheus_px4 path, run and start the gazebo simulation, the instructions are as follows:

```
roscd px4/  
  
make amovlab_sitl gazebo_p450
```

If gazebo is successfully opened and the p450 model is loaded, it means it is normal.

Use **ctrl+c** to close the terminal.

Then open a new terminal, use roslaunch to start the gazebo+mavros+prometheus_px4 simulation, and run the command as under:

```
roslaunch px4 mavros_posix_sitl.launch
```

If gazebo is successfully opened and the p450 model is loaded, it means it is normal.

Use **ctrl+c** to close the terminal.

Prometheus can be tested!

Test Prometheus

The normal operation of prometheus depends on the normal operation of prometheus_px4. Open a new terminal and execute the following instructions:

```
roslaunch prometheus_gazebo sitl_control.launch
```

After waiting for **gazebo** and **rviz** to start normally, if you select 0 in the terminal, enter the terminal command control, and follow the terminal command prompt, the simulation of the Prometheus system is ready.

If there are no problems, congratulations, you have mastered the quick start of prometheus mirroring. Learn more about the functions.