## ROS 伺服运动使用说明

1. 修改功能包(jaka\_driver)的 launch 文件夹下的 robot\_start\_launch.launch 文件中的机器人 IP 地址(与实际机器人 IP 地址保持一致),如图:

```
<launch>
| <param name="ip" value="172.30.2.144" type="str"/>
| <node pkg="jaka_driver" type="jaka_driver" name="jaka_driver" output="screen" launch-prefix="xterm -e gdb -ex run --args" />
</launch>
```

2. 修改功能包(jaka\_driver)的 src 文件夹下 servo\_j\_INCR.cpp 文件中导入的运动规划路径文件(j INCR.csv)为绝对路径。

```
ifstream infile ("/home/whm/jaka_robot/src/jaka_driver/src/j_INCR.csv", ios::in);
string line;
vector<struct Position> posVector;
// getline(infile, line);
while (getline(infile, line)) [
```

3. 修改功能包 (jaka\_driver)的 src 文件夹下 jaka\_driver.cpp 文件中 MoveMode 为 INCR 运动。

4. 在工作空间(jaka\_robot)右键打开一个终端,使用 catkin\_make 编译文件。

```
whm@whm-virtual-machine:~/jaka_robot$
Base path: /home/whm/jaka_robot
Source space: /home/whm/jaka_robot/src
Build space: /home/whm/jaka_robot/build
Devel space: /home/whm/jaka_robot/devel
Install space: /home/whm/jaka_robot/install
####
#### Running command: "make cmake_check_build_system" in "/home/whm/jaka_robot/build"
####
#### Running command: "make -j4 -l4" in "/home/whm/jaka_robot/build"
####
[ 0%] Built target std_msgs_generate_messages_nodejs
[ 0%] Built target _jaka_msgs_generate_messages_check_deps_SetUserFrame
[ 0%] Built target _jaka_msgs_generate_messages_check_deps_ServoMoveEnable
[ 0%] Built target _jaka_msgs_generate_messages_check_deps_RobotMsg
[ 0%] Built target _jaka_msgs_generate_messages_check_deps_SetTcpFrame
[ 0%] Built target _jaka_msgs_generate_messages_check_deps_ClearError
[ 0%] Built target _jaka_msgs_generate_messages_check_deps_GetIK
```

5. 在工作空间(jaka\_robot)终端添加环境变量。

source ./devel/setup.bash

```
whm@whm-virtual-machine:~/jaka_robot$ source ./devel/setup.bash
```

6. 启动 robot\_start\_launch.launch 文件:
roslaunch jaka driver robot start launch.launch

```
whm@whm-virtual-machine:~/jaka_robot$ source ./devel/setup.bash
whm@whm-virtual-machine:~/jaka_robot$ roslaunch jaka_driver robot_start_launch.l
aunch
... logging to /home/whm/.ros/log/166caa6e-6556-11ed-a6b2-000c29cf701f/roslaunch
-whm-virtual-machine-40300.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

started roslaunch server http://whm-virtual-machine:39167/

SUMMARY
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PARAMETERS
* /ip: 172.30.2.144
* /rosdistro: melodic
* /rosversion: 1.14.13</pre>
```

7. 在工作空间(jaka\_robot)右键新打开一个终端,然后添加环境变量。source ./devel/setup.bash



8. 启动 servo\_j\_INCR 文件。

rosrun jaka driver servo j INCR

```
whm@whm-virtual-machine:~/jaka_robot$ rosrun jaka_driver servo_j_INCR
[ INFO] [1668564198.874033572]: 设置机器人初始点
Read file
ServoMove enable
-0.005125
调用servo_j的返回值:1 Servo_j has been executed
```