tf_test

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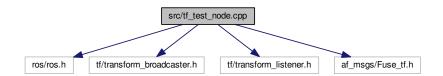
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Chapter 2

File Documentation

2.1 src/tf_test_node.cpp File Reference

```
#include <ros/ros.h>
#include <tf/transform_broadcaster.h>
#include <tf/transform_listener.h>
#include <af_msgs/Fuse_tf.h>
Include dependency graph for tf_test_node.cpp:
```



Functions

- void tfCallback (const af_msgs::Fuse_tf &fuse_tf_msg)
- int main (int argc, char **argv)

Variables

2.1.1 Function Documentation

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2.1.1.1 main()

```
int main (
          int argc,
          char ** argv )
```

main函数

将接收到的数据转换为map->odom的tf发布出来

```
33
       ros::init(argc, argv, "my_tf_broadcaster");
34
       ros::NodeHandle node;
       ros::Subscriber sub = node.subscribe("/fuse/tf", 1, &tfCallback);
35
      static tf::TransformBroadcaster br;
36
       ros::Rate rate(10.0);
37
38
       while (node.ok()){
          br.sendTransform(tf::StampedTransform (map_to_odom_, ros::Time::now(), "map", "odom"));
40
           ros::spinOnce();
41
          rate.sleep();
42
43
       return 0;
44 };
```

2.1.1.2 tfCallback()

fuse/tf 回调函数

topic /fuse/tf 回调过程中调用,并且将fuse_tf_msg分解为map->base和odom->base两组数据,转换为map->odom并传递到main函数循环中

Parameters

```
fuse_tf_msg 自定义Fuse_tf格式数据
```

Returns

无返回值

Note

临时解决方案

2.1.2 Variable Documentation

2.1.2.1 map_to_odom_

tf::Transform map_to_odom_ = tf::Transform(tf::createQuaternionFromRPY(0, 0, 0), tf::Vector3(0. \leftarrow 0, 0.0, 0.0))

map->odom全局变量

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