$\verb|imu_generator.launch||$ 

```
#!/usr/bin/env python
import rospy, math, os
from sensor msgs.msg import Imu
import tf
from tf.transformations import euler from quaternion,
quaternion_from_euler
rospy.init node('imu generator', anonymous=False)
pub = rospy.Publisher("imu", Imu, queue size=1)
rate = rospy.Rate(10)
# 파일을 불러서 읽는다.
f = open(os.path.dirname( file )+"/imu data.txt", 'r')
imu datas = f.readlines()
broadcaster = tf.TransformBroadcaster()
for imu dt in imu datas:
   # 파일의 내용을 파싱하여 전송한다.
  value list = imu dt.split(" ")
  quat = quaternion_from_euler(float(value_list[2][:-1]), \
                               float(value list[5][:-1]), \
                               float(value list[8][:-1]))
  imu data = Imu()
   # rospy.loginfo(quat)
  broadcaster.sendTransform(
       (0, 0, 0.),
       quat,
       rospy.Time.now(),
       "map",
       "imu"
  imu data.header.stamp = rospy.Time.now()
  imu data.header.frame id = "imu"
  imu data.orientation.x = quat[0]
  imu data.orientation.y = quat[1]
   imu data.orientation.z = quat[2]
```

```
imu_data.orientation.w = quat[3]
pub.publish(imu_data)
rate.sleep()
f.close()
```

## 실행 화면

## roslaunch rviz\_imu imu\_generator.py

