one_mobile_imu_yaw Turtlebot 1 Report

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This is a summary of the data from the one_mobile_imu_yaw experiment, Turtlebot #1.

The runtime of this experiment was 0 hours, 4 minutes, and 0.1 seconds.

Shown below is the summary of each filter's error for both x and y coordinates, and also the error in total distance.

```
summary(t1_continuous$x_error)
        Min.
               1st Qu.
                                              3rd Qu.
                          Median
                                       Mean
                                                            Max.
## -0.039950 -0.023130 -0.019140 -0.017030 -0.009125
                                                       0.013670
summary(t1_continuous$y_error)
##
         Min.
                 1st Qu.
                              Median
                                           Mean
                                                   3rd Qu.
                                                                  Max.
## -1.853e-02 1.676e-05 3.586e-03
                                     4.906e-03 7.124e-03 3.108e-02
summary(t1_continuous$dist_error)
        Min.
               1st Qu.
                          Median
                                       Mean
                                              3rd Qu.
## 9.000e-08 9.898e-03 2.205e-02 2.051e-02 2.762e-02 4.500e-02
summary(t1_discrete$x_error)
##
                              Median
         Min.
                 1st Qu.
                                                   3rd Qu.
                                                                  Max.
                                           Mean
## -0.0195600 -0.0038670
                          0.0018280
                                      0.0005286
                                                 0.0045680
                                                             0.0256400
summary(t1_discrete$y_error)
                                                   3rd Qu.
         Min.
                 1st Qu.
                             Median
                                           Mean
                                                                  Max.
## -0.0277600 -0.0058540 -0.0020090 -0.0008069
                                                 0.0005505
                                                             0.0233800
summary(t1_discrete$dist_error)
               1st Qu.
                          Median
                                       Mean
## 8.700e-08 4.522e-03 8.843e-03 1.035e-02 1.603e-02 2.848e-02
```