one_mobile_imu_both Turtlebot 1 Report

Matthew Swartwout

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

The runtime of this experiment was 0 hours, 3 minutes, and 59.7 seconds.

The total number of external pose measurements recieved by the robot during this time was 0 which means poses were received at an average of 0 poses per second.

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$x_error)
##
                  1st Qu.
                              Median
                                            Mean
                                                    3rd Qu.
                                                                   Max.
## -0.0167900 -0.0015650
                          0.0002159
                                      0.0001871
                                                  0.0021820
                                                             0.0074340
summary(t1_continuous$y_error)
         Min.
                 1st Qu.
                              Median
                                            Mean
                                                    3rd Qu.
                                                                   Max.
## -1.340e-02 -2.422e-03 2.768e-05 -1.330e-04
                                                  2.652e-03
                                                             1.379e-02
summary(t1_continuous$dist_error)
##
        Min.
               1st Qu.
                           Median
                                       Mean
                                               3rd Qu.
                                                             Max.
## 8.000e-08 2.252e-03 3.949e-03 4.889e-03 7.475e-03 1.898e-02
summary(t1_discrete$x_error)
##
               1st Qu.
                           Median
                                       Mean
                                               3rd Qu.
        Min.
                                                            Max.
## -0.016850 -0.011950 -0.010310 -0.008499 -0.003960
                                                        0.004794
summary(t1_discrete$y_error)
##
        Min.
               1st Qu.
                                       Mean
                                               3rd Qu.
                                                             Max.
## -0.007646 -0.002820
                         0.000364
                                   0.001425
                                              0.006388
                                                        0.010870
summary(t1_discrete$dist_error)
##
        Min.
               1st Qu.
                           Median
                                       Mean
                                               3rd Qu.
                                                            Max.
## 8.000e-08 7.496e-03 1.150e-02 1.021e-02 1.355e-02 1.798e-02
```