

# one\_stationary\_imu\_yaw Turtlebot 1 Report

*Matthew Swartwout*

*June 24, 2016*

This is a summary of the data from the one\_stationary\_imu\_yaw experiment, Turtlebot #1.

The runtime of this experiment was 0 hours, 3 minutes, and 59.4 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.    Median      Mean    3rd Qu.      Max.
## -1.608e-07  4.917e-04  9.846e-04  9.845e-04  1.477e-03  1.970e-03
```

```
summary(t1_continuous$y_error)
```

```
##      Min.    1st Qu.    Median      Mean    3rd Qu.      Max.
## -7.690e-11  7.718e-08  2.502e-07  3.134e-07  5.054e-07  8.918e-07
```

```
summary(t1_continuous$dist_error)
```

```
##      Min.    1st Qu.    Median      Mean    3rd Qu.      Max.
## 1.608e-07  4.917e-04  9.846e-04  9.845e-04  1.477e-03  1.970e-03
```

```
summary(t1_discrete$x_error)
```

```
##      Min.    1st Qu.    Median      Mean    3rd Qu.      Max.
## -1.608e-07  4.917e-04  9.846e-04  9.845e-04  1.477e-03  1.970e-03
```

```
summary(t1_discrete$y_error)
```

```
##      Min.    1st Qu.    Median      Mean    3rd Qu.      Max.
## -7.690e-11  7.718e-08  2.502e-07  3.134e-07  5.054e-07  8.918e-07
```

```
summary(t1_discrete$dist_error)
```

```
##      Min.    1st Qu.    Median      Mean    3rd Qu.      Max.
## 1.608e-07  4.917e-04  9.846e-04  9.845e-04  1.477e-03  1.970e-03
```