

two_mobile_restricted Turtlebot 1 Report

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June 24, 2016

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

The runtime of this experiment was 1 hours, 59 minutes, and 3658.7 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.
## -0.001963  0.012160  0.017090  0.016920  0.021910  0.026630
```

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

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max.
## -0.003293  0.012140  0.026110  0.026200  0.040120  0.054170
```

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

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max.
## 5.220e-06 1.719e-02 3.121e-02 3.167e-02 4.571e-02 6.036e-02
```

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

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max.
## -0.02305  0.01535  0.02025  0.02000  0.02504  0.02975
```

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

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max.
## -0.01440  0.01001  0.02373  0.02386  0.03764  0.05169
```

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

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max.
## 5.220e-06 1.843e-02 3.110e-02 3.217e-02 4.520e-02 5.964e-02
```