

five_mobile Turtlebot 2 Report

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This is a summary of the data from the five_mobile experiment, Turtlebot #2.

The runtime of this experiment was 1 hours, 59 minutes, and 3656.8 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.
## -0.004713  0.107900  0.116200  0.111700  0.124500  0.132700
```

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

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max.
## -0.009629  0.040750  0.052670  0.051520  0.064710  0.076800
```

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

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max.
## 2.700e-07 1.150e-01 1.274e-01 1.234e-01 1.402e-01 1.533e-01
```

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

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max.
## -0.01063  0.31470  0.32300  0.31350  0.33130  0.33940
```

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

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max.
## -0.072610 -0.034240 -0.022010 -0.010030 -0.009697  0.214300
```

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

```
##      Min.   1st Qu.   Median     Mean   3rd Qu.     Max.
## 0.0000003 0.3170000 0.3240000 0.3189000 0.3315000 0.3394000
```