Dataset Time Sequence Check

1. Introduction

The path of the data set to be tested is /home/li/project/MyRepository/CarlaSimulatorTest/noetic_ws/src/Architecture2/scripts/data/2024.07.15 15h29m36s.

Info:

description: the computer load of the 3 stabel tasks have been updated.

map name: Town04

cloud: 46

rain: 86

wind: 9

fog: 48

source location: [-510.619140625, 159.84310913085938, 0.2819424271583557]

destination location: [86.73367309570312, 13.435014724731445, 11.192305564880371]

number of surrounding vehicles: 48

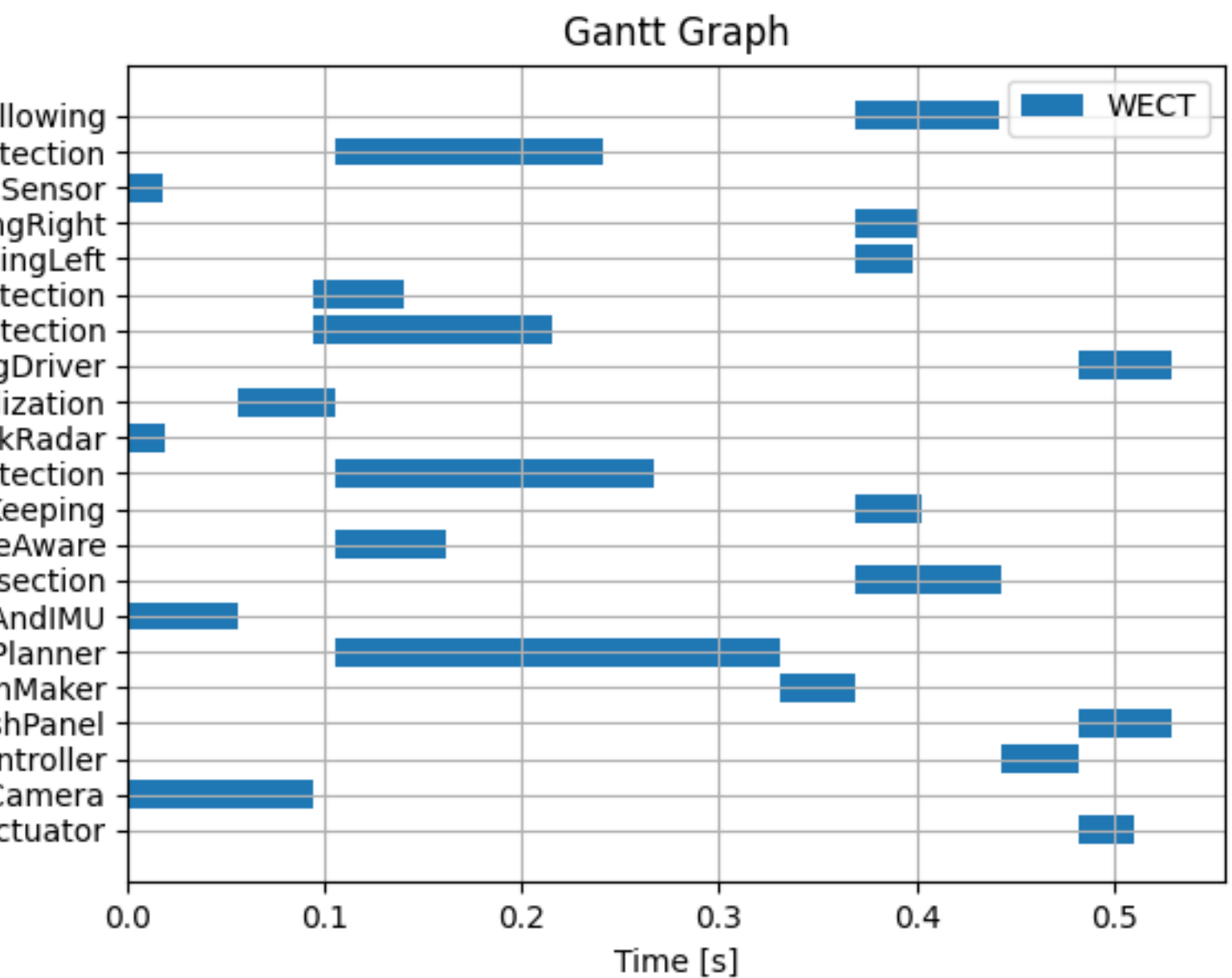number of surrounding walkers: 25

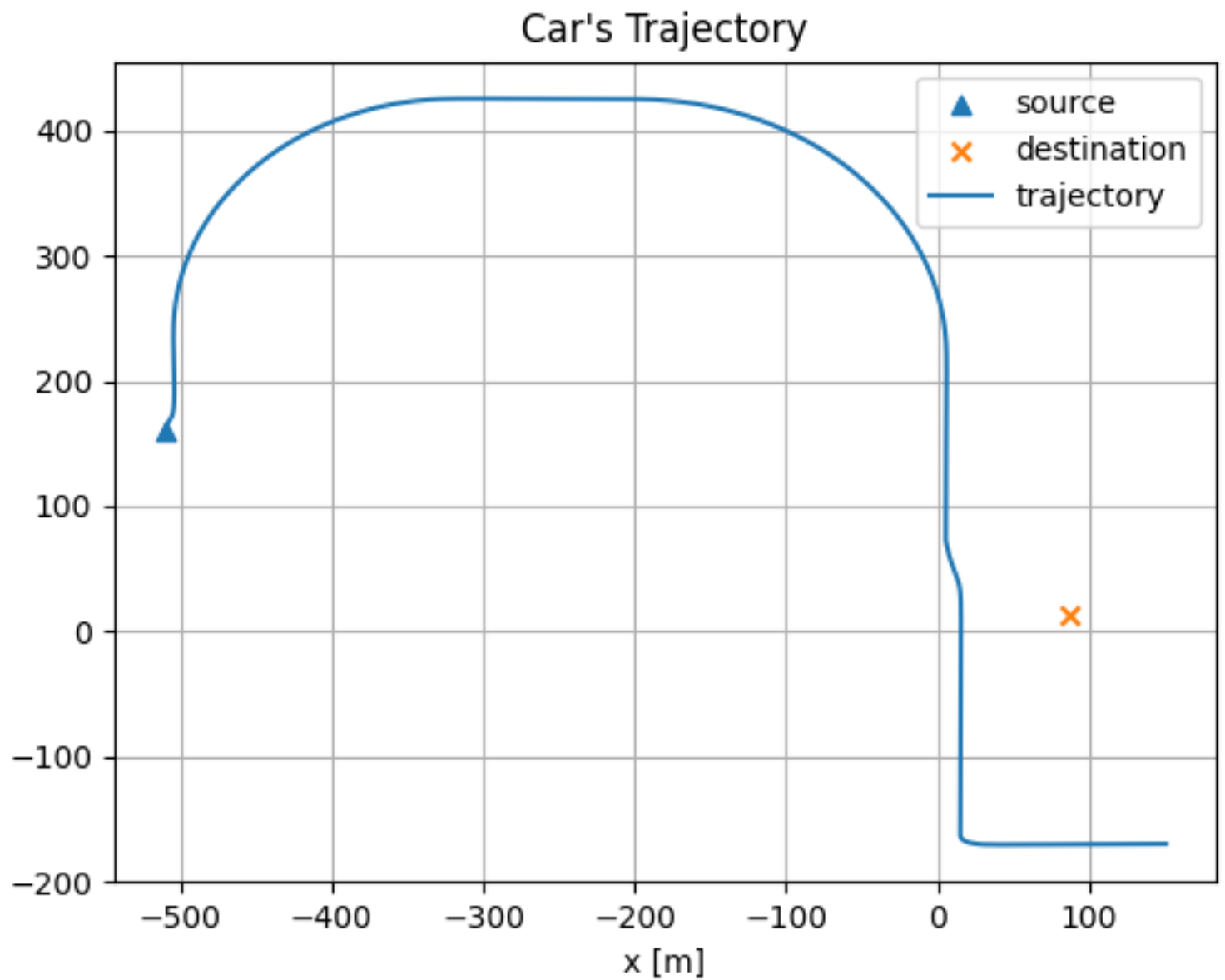Figure 1.1: Predetermined Schedule

Figure 1.2: Car's Trajectory

There are 6905 cycles from 0 to 6904. The total period is 0.9298836540222165 including the local and global context calculation an transmission. The global start time base is 1721050183.2506218.
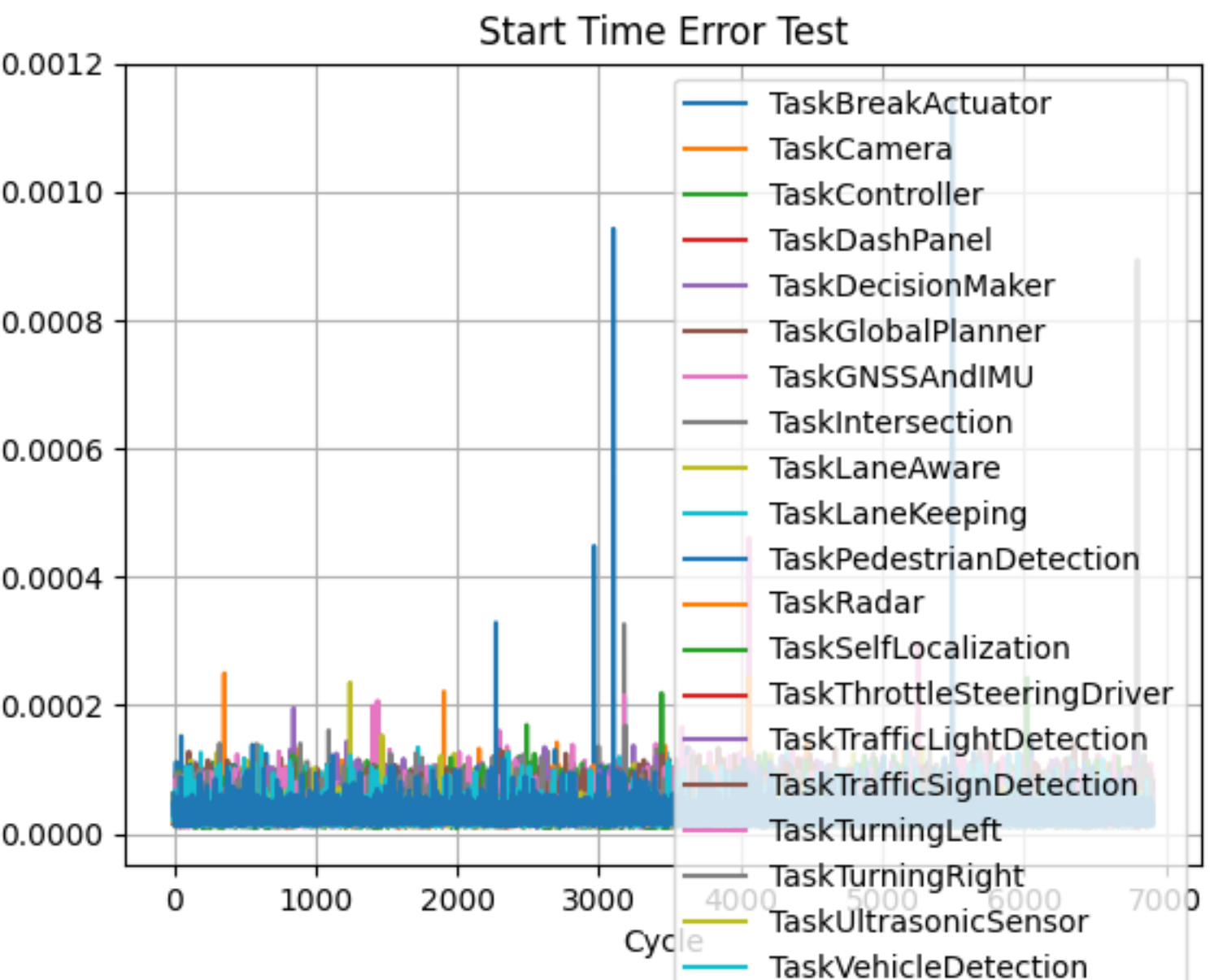
2. Check Timing
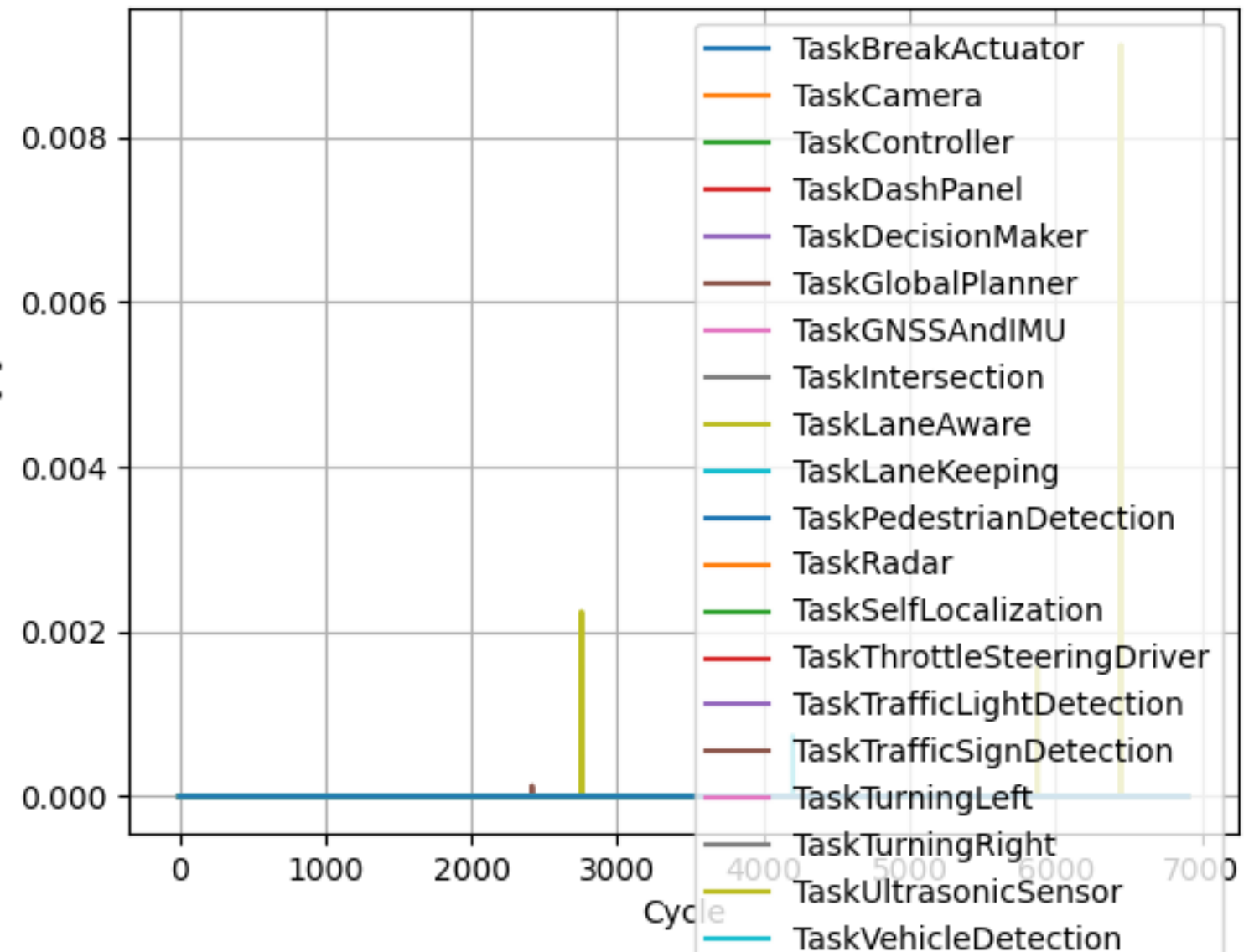
Figure 2.1: Start Time Error Test

End Time Error Test

Figure 2.2: End Time Error Test

Task	Reason	Cycle	Remark
TaskTrafficSignDetection	Exceed WCET	2416	0.00012969970703125
TaskLaneAware	Exceed WCET	2754	0.002244710922241211
TaskLaneKeeping	Exceed WCET	4201	0.0007357597351074219
TaskLaneAware	Exceed WCET	5874	0.0015647411346435547
TaskLaneAware	Exceed WCET	6446	0.009120464324951172

Table 2.1: Error Messages