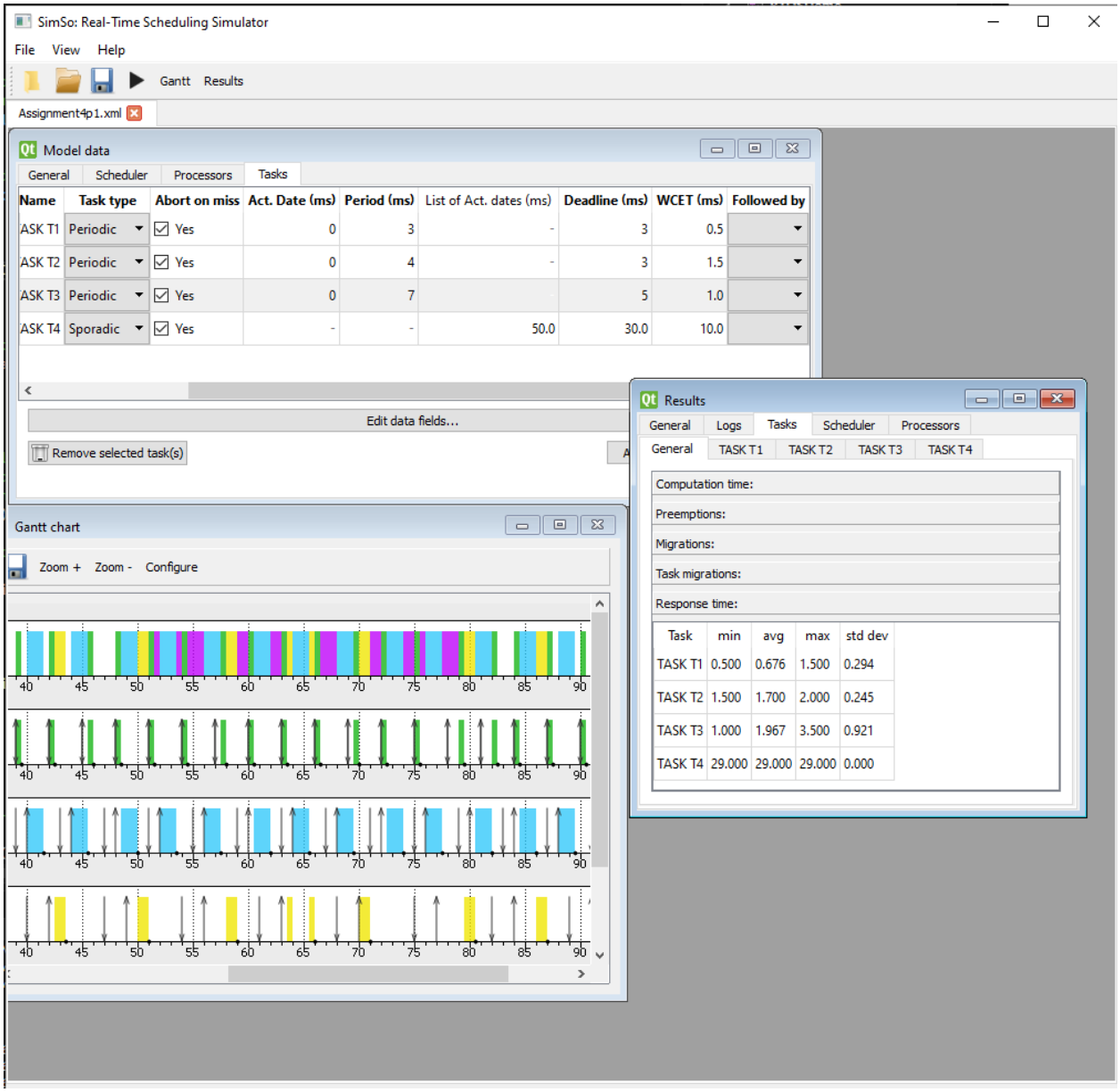
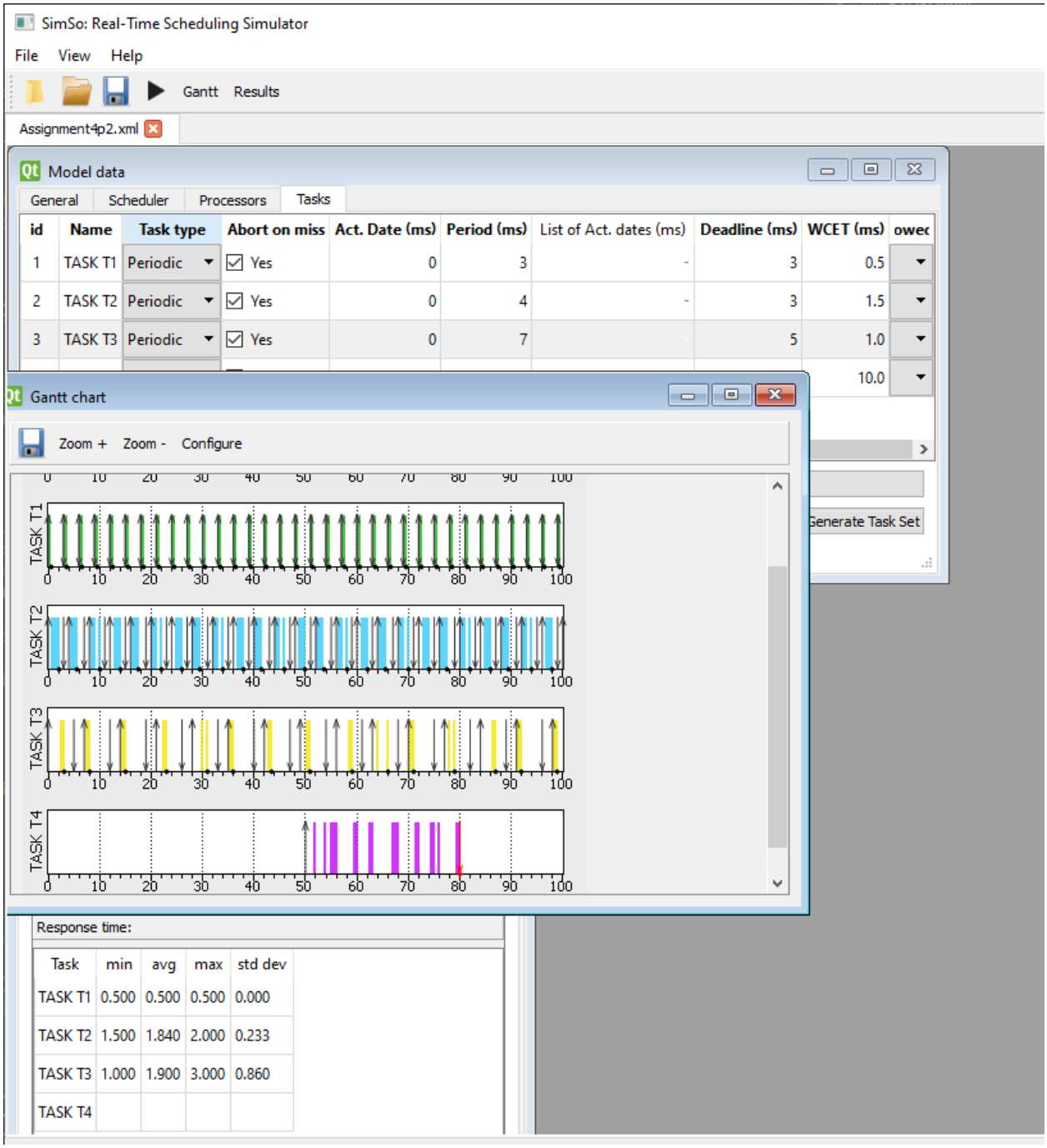
Simulation Assignment
EDF



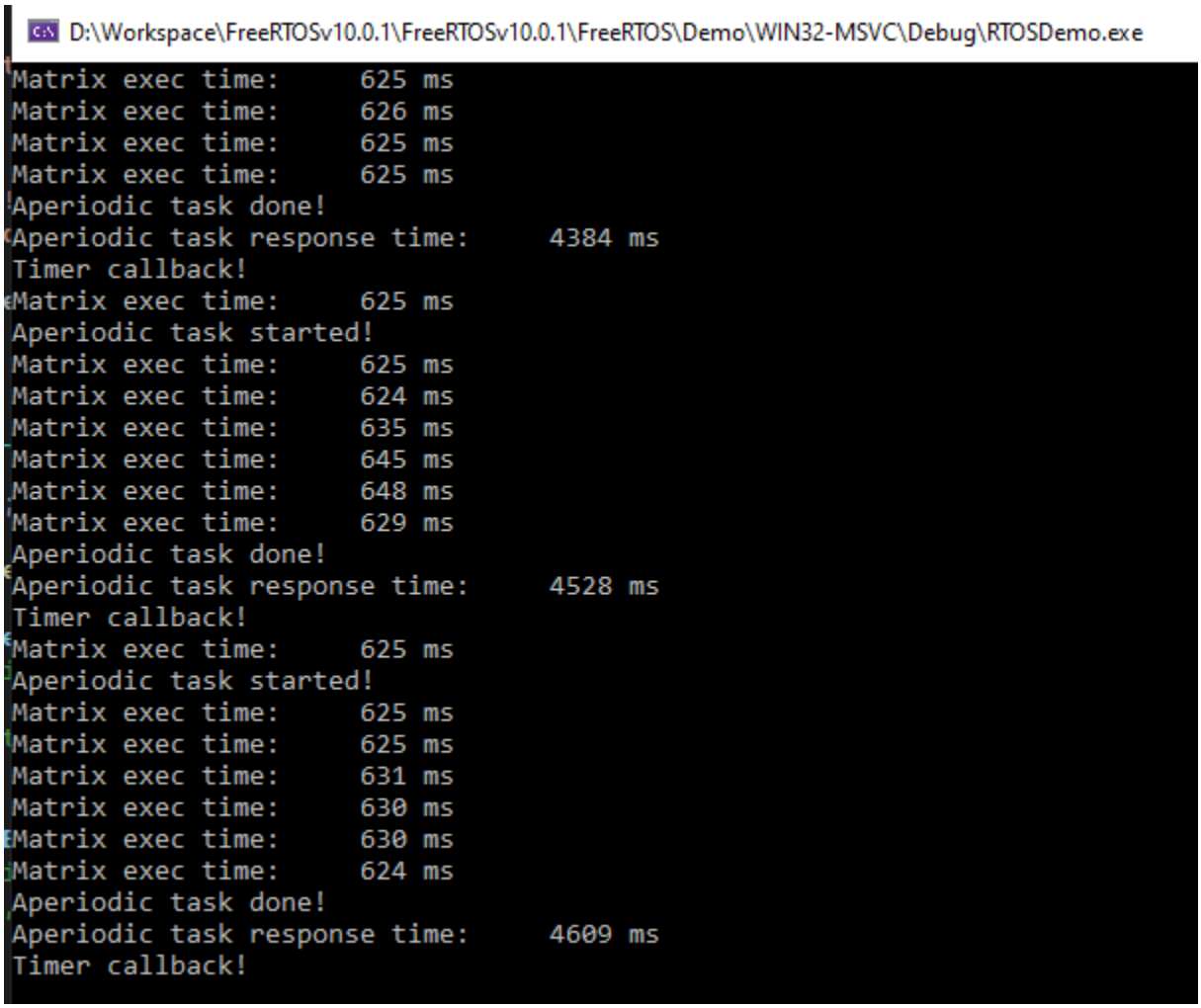
- Response Times are listed in the screenshot.
- None of the tasks missed their deadlines.
- The sporadic job meets its deadline as well with a response time of 29 seconds.

RM

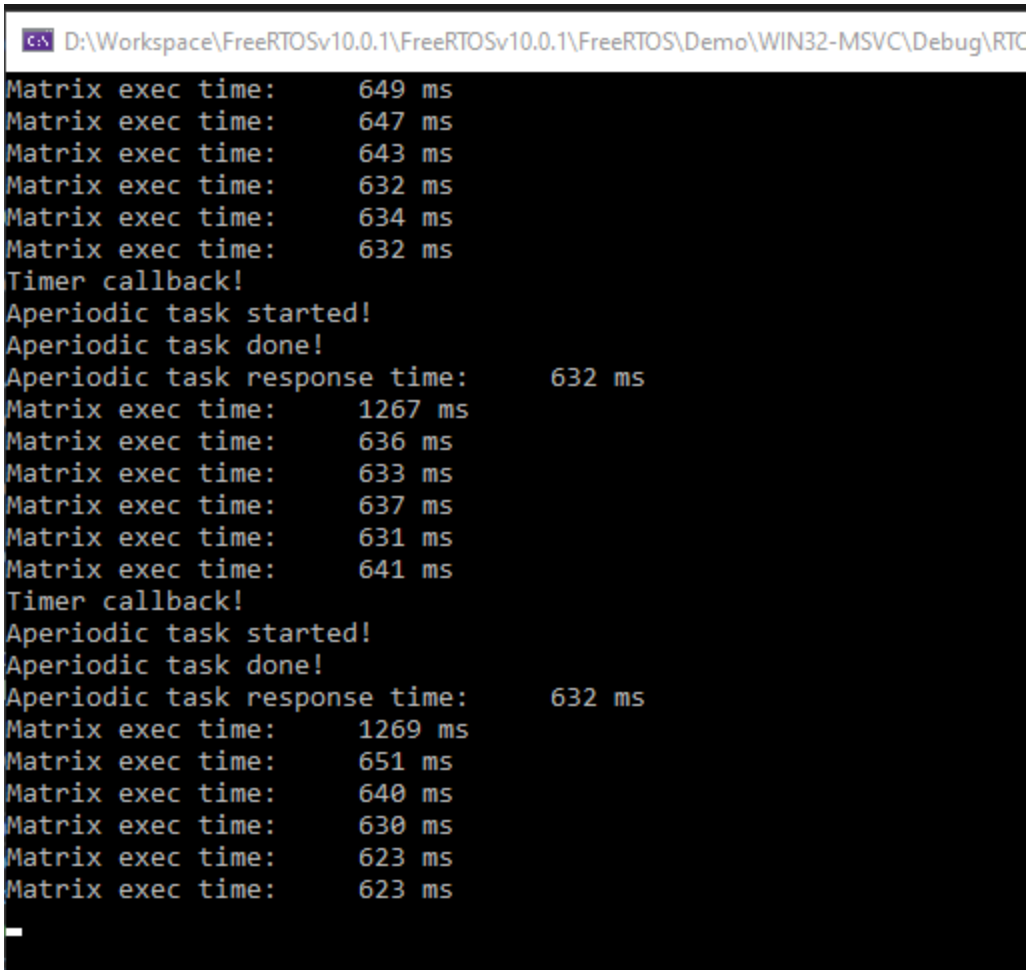


- Response Times are listed in the screenshot
- Task 4 misses its deadline however all the other tasks succeed.
- The sporadic job does not meet its deadline
- The response time for the sporadic job is the full 30 ms because it does not meet the deadline.
- EDF works best because all tasks are able to execute, including the sporadic job.

Coding Assignment

- 

- The system is able to handle all aperiod tasks at first. As the callbackfunction creates a new task every 5 seconds, in my case it does not execute as soon as the 5 seconds are up. The task is created and before it finishes the matrix function executes a number of times before the aperiodic task is done due to the higher priority. Therefore my response time for the aperiodic task keeps increasing.
- To make sure the aperiodic task runs, I would need to increase its priority. In doing so, the aperiodic function will execute as soon as the call back function is called.
- The response time of the aperiodic task ranges upwards of 4384 upon running the task with a priority of 2. With a priority of 4, its response time can be 632 ms



This is with a priority of 4 for the aperiodic task.