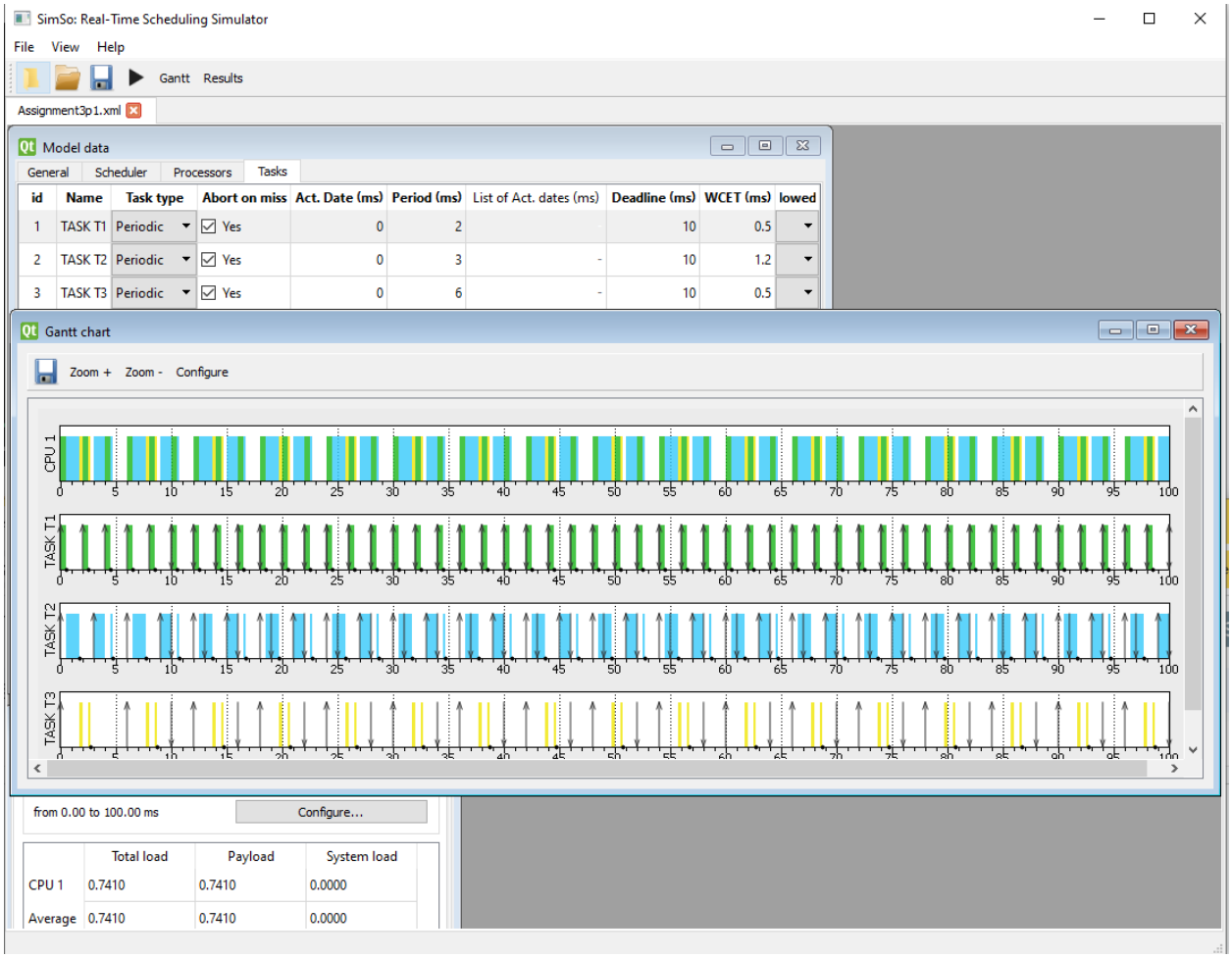
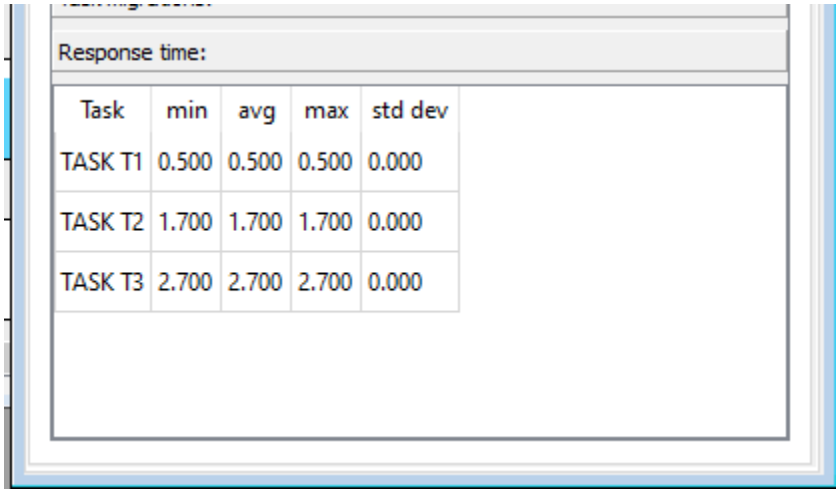
1. T1(2, 0.5), T2(3, 1.2), T3(6, 0.5)

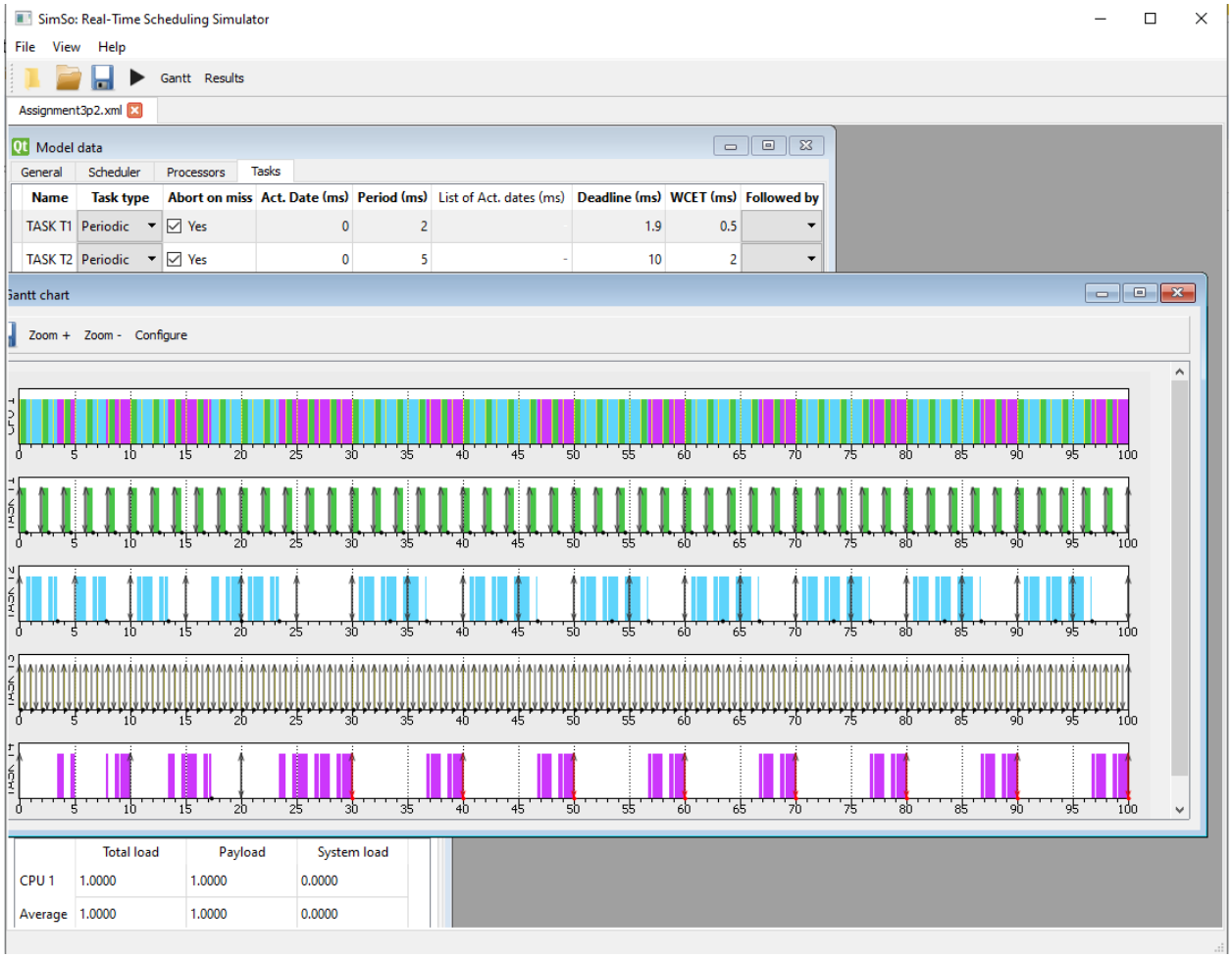


- $\frac{0.5}{2} + \frac{1.2}{3} + \frac{0.5}{6} = 0.73333333 \quad URM(3) = 3(2^{\frac{1}{3}} - 1) = 0.79 \quad U \leq URM$ feasible
- Here are the min/max/avg respons times for the tasks



- None of the tasks missed a deadline.
- It is definitely possible that there can be another scheduler but more tests need to be done. In this specific scenario, U is less than or equal to the Urm and is less that 1 which guarantees feasibility.

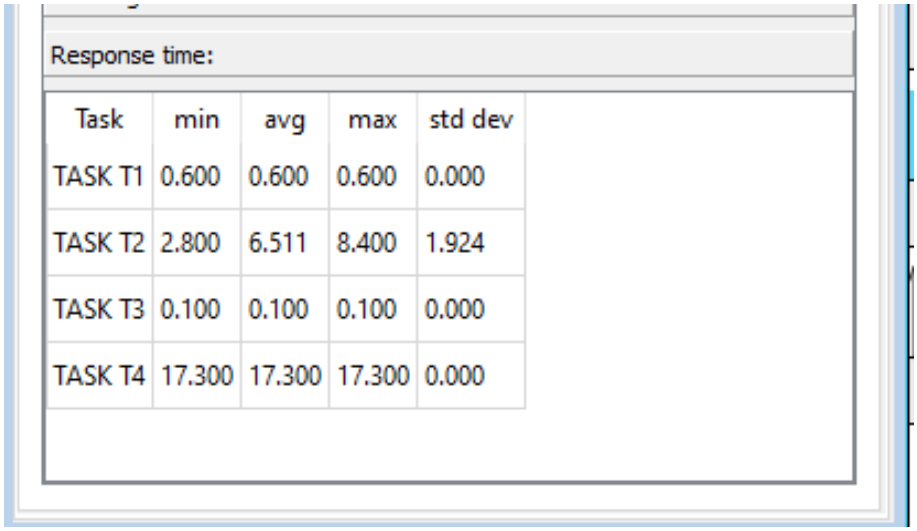
2. T1(2, 0.5, 1.9) T2(5,2) T3(1, 0.1, 0.5) T4(10, 5, 20)



- $U = \frac{0.5}{2} + \frac{2}{5} + \frac{0.1}{1} + \frac{5}{10} = 1.25 \quad URM(4) = 4(2^{\frac{1}{4}} - 1) = 0.75682846$

Not feasible

- Here are the min/max/avg response times



Response time:

Task	min	avg	max	std dev
TASK T1	0.600	0.600	0.600	0.000
TASK T2	2.800	6.511	8.400	1.924
TASK T3	0.100	0.100	0.100	0.000
TASK T4	17.300	17.300	17.300	0.000

- Only Task 4 is missing its deadlines. They are missed at the deadlines 30ms all the way to 100 ms.
- There are no other schedulers that will work with this particular task set because the utilization time exceeds 1, therefore making this system not feasible.