CPU Load For ECU1:

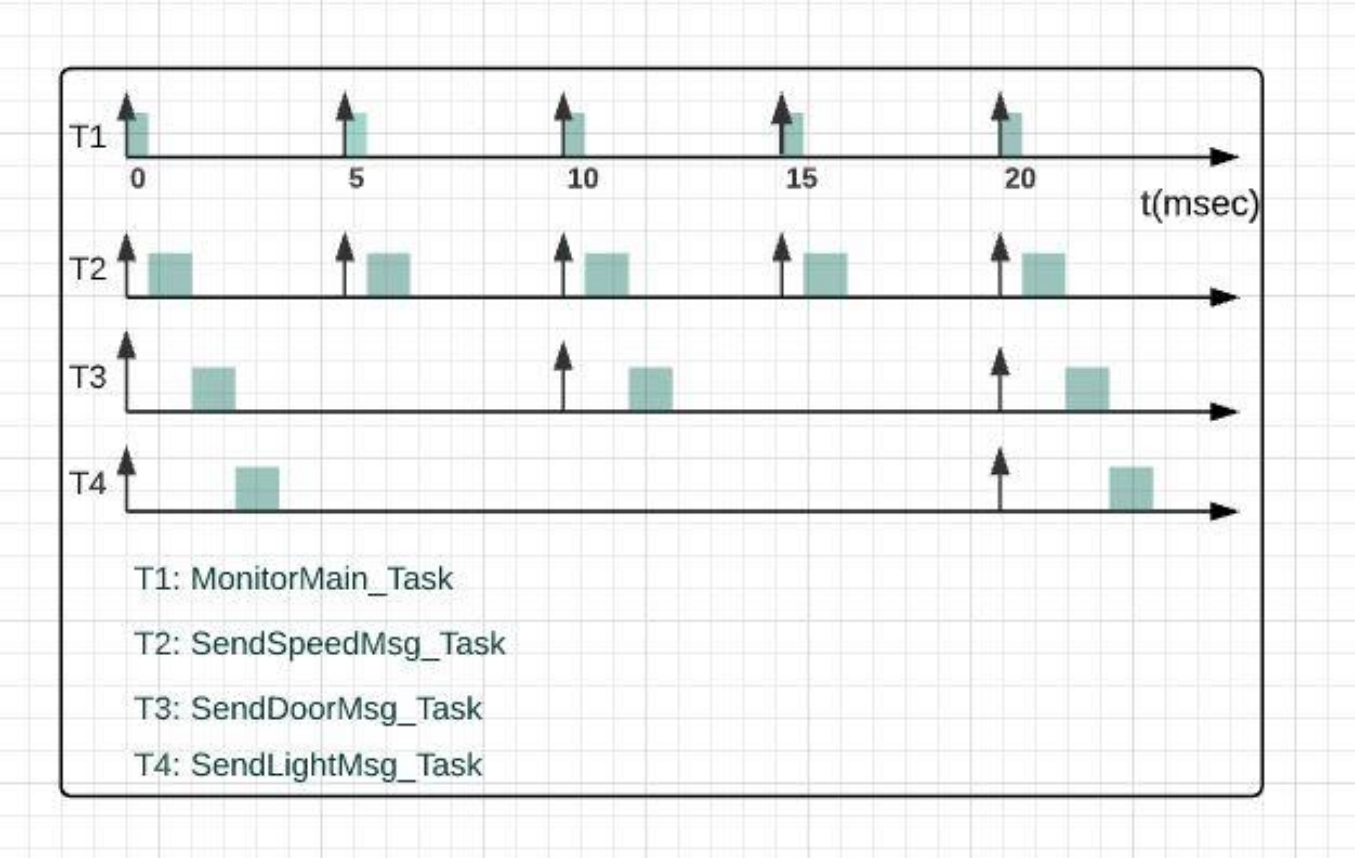
Ti(Pi , Ci) P: Periodicity C: Capacity(Execution Time)

- T1(5 , 0.5) Highest Priority
- T2(5 , 1)
- T3(10 , 1)
- T4(20 , 1) Lowest Priority

U= $\sum Ci/Pi$ = ((0.5/5)+(1/5)+(1/10)+(1/20))*100%= 45%

U_{RMS} = (4*($2^{1/4}$ - 1))*100%= 75%

U < U_{RMS}



CPU Load For ECU2:

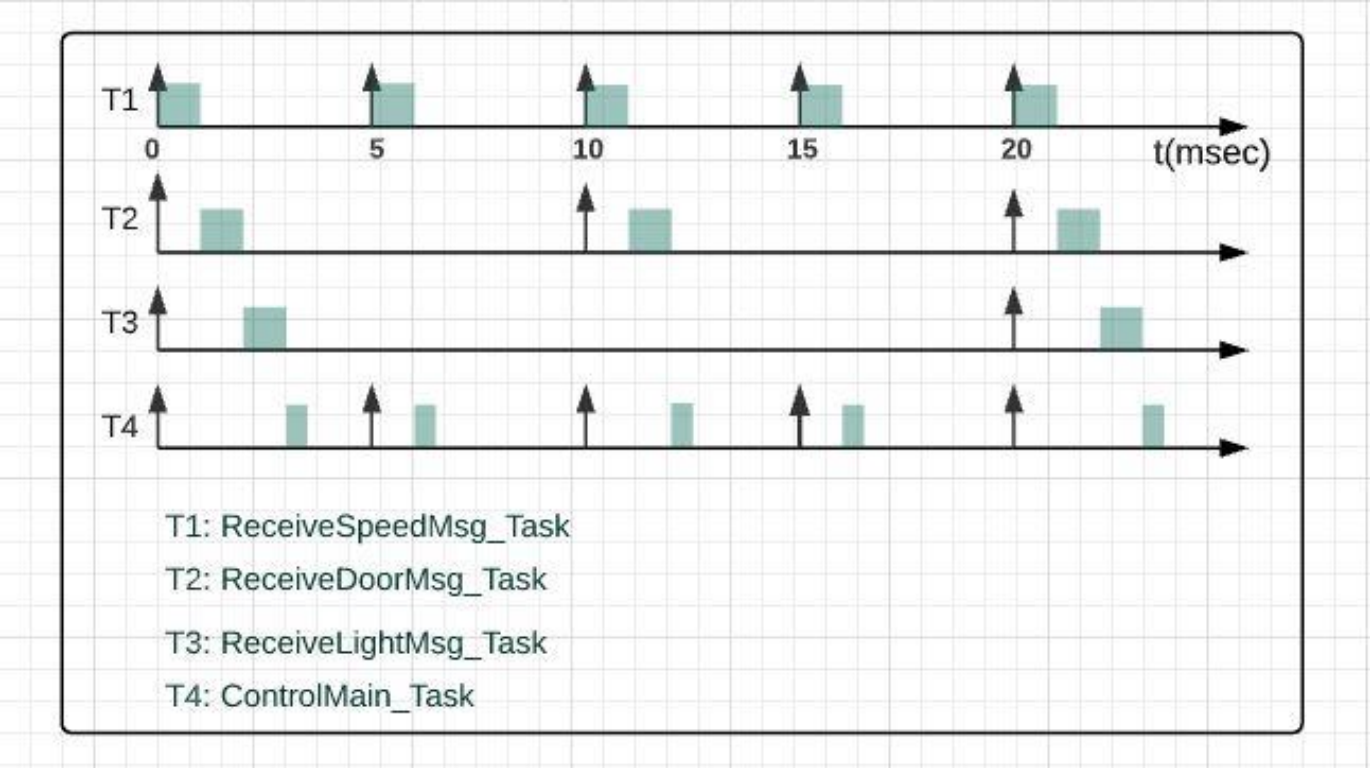
Ti(Pi , Ci) P: Periodicity C: Capacity(Execution Time)

- T1(5 , 1) Highest Priority
- T2(10 , 1)
- T3(20 , 1)
- T4(5 , 0.5) Lowest Priority

U= $\sum Ci/Pi$ = ((1/5)+(1/10)+(1/20)+ (0.5/5))*100%= 45%

U_{RMS} = (4*($2^{1/4}$ - 1))*100%= 75%

U < U_{RMS}



BUS Load:

Bus load will only equal the propagation time of messages (7Msg in 20msec)=
((7* 1msec)/ 20 msec) * 100% = 3.5%