Design Report

Tasks Needed

There will be 5 Task

Lcd Task.
Blood Pressure Sensor.
Heartbeat Detector.
Temperature Sensor.
Alert Siren.
P: 200, Pr: 2, E: 2, D: 200}
Pr: 3, E: 3, D: 25}
P: 100, Pr: 4, E: 1.5, D: 100}
Pr: 10, Pr: 1, E: 2.5, D: 10}
Pr: 10, Pr: 5, E: 1, D: 10}

• Where

P: Periodicity Pr: Priority

E: Execution Time

D: Deadline

- Tick Time = 10ms
- System Hyperperiod = 200ms
- CPU Load = ((2*1) + (3*8) + (1.5*2) + (2.5*20) + (1*20)) / 200 = 0.495 (49.5%) System Load is acceptable and additional feature can be added
- System is Schedulable

Simso Simulation

