

Assignment 3

① LCD $T_1 [P: 20, E: 2, D: 20]$

② Blood Pressure $T_2 [P: 25, E: 3, D: 25]$

③ Heart Beat $T_3 [P: 100, E: 65, D: 100]$

④ Temp Sensor $T_4 [P: 10, E: 25, D: 10]$

⑤ Alert Siren $T_5 [P: 10, E: 1, D: 10]$

II] Sys tick rate

sys tick \geq total execution

sys tick ≥ 10 ms

12] H_3 Per Period ≥ 10 ms $\Rightarrow 100$ ms

13] CPU load $\geq 58.5\%$

Model data										
General Scheduler Processors Tasks										
id	Name	Task type	Abort on miss	Act. Date (ms)	Period (ms)	List of Act. dates (ms)	Deadline (ms)	WCET (ms)	Followed by	priority
1	TASK T1	Periodic	<input checked="" type="checkbox"/> Yes	0	20.0	-	20.0	2.0	1	1
2	TASK T2	Periodic	<input checked="" type="checkbox"/> Yes	0	25.0	-	25.0	3.0	2	2
3	TASK T3	Periodic	<input checked="" type="checkbox"/> Yes	0	100.0	-	100.0	1.5	3	3
4	TASK T4	Periodic	<input checked="" type="checkbox"/> Yes	0	10	-	10	2.5	4	4
5	TASK T5	Periodic	<input checked="" type="checkbox"/> Yes	0	10	-	10	1.0	5	5

Edit data fields...

Remove selected task(s)

Results

General Logs Tasks Scheduler Processors

Observation Window:

from 0.00 to 100.00 ms

Configure...

	Total load	Payload	System load
CPU 1	0.5850	0.5850	0.0000
Average	0.5850	0.5850	0.0000

