

Func 1 exact Time = 13 ms $P = 50 \text{ m/s}$

Func 2 — — = 13.2 ms $P = 50 \text{ m/s}$

Func 3 " " = 18.8 ms $P = 20 \text{ m/s}$

Func 4 " " = 17.8 ms $P = 20 \text{ m/s}$

Func 5 " " = 5.15 ms $P = 10 \text{ m/s}$

Func 6 " " = 28.49 ms $P = 100 \text{ m/s}$

$$U = \sum_{i=1}^n \frac{c_i}{P_i} \leq n(2^{\frac{1}{n}} - 1)$$

$$0.8 \leq 0.73$$

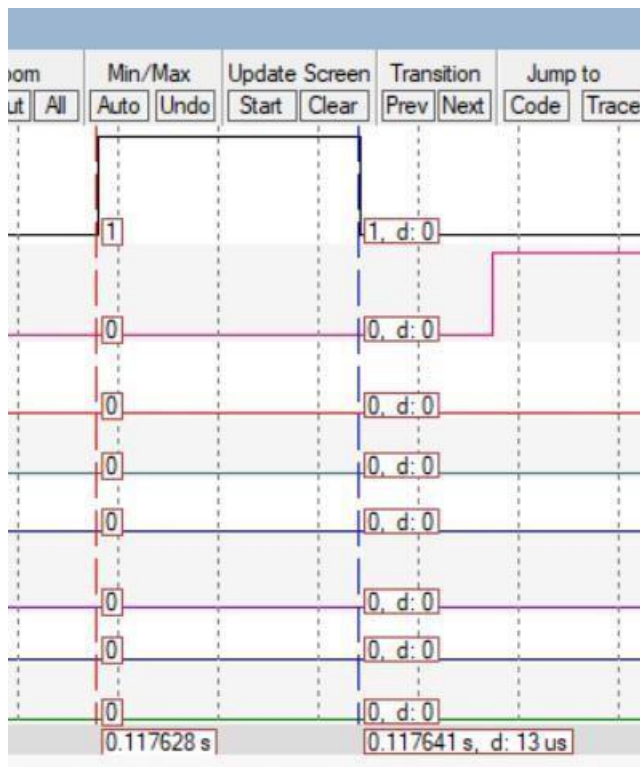
need another Test

hyper period = 100 ms

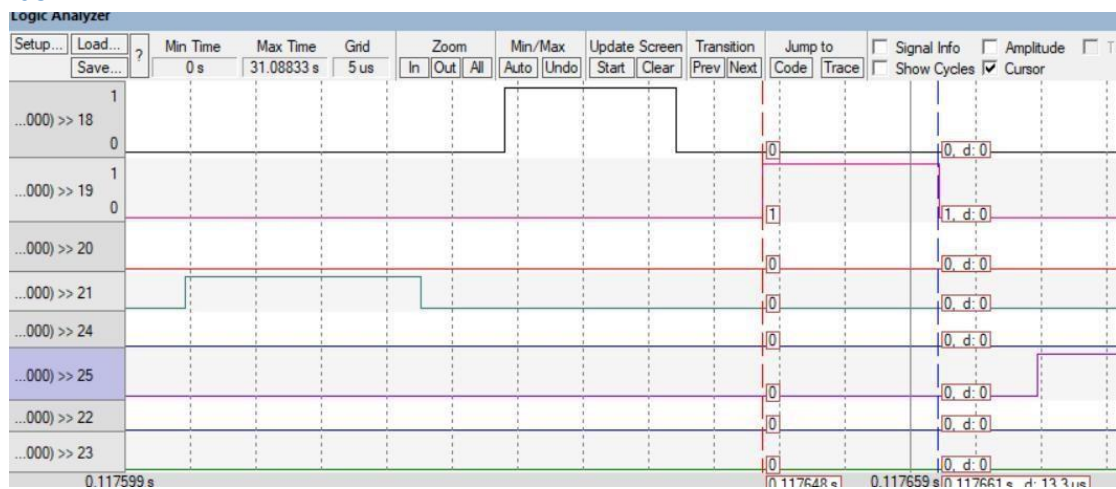
$$\text{CPU Load} = \frac{\text{Total Time}}{\text{sys. Time}}$$

$$= 64\%$$

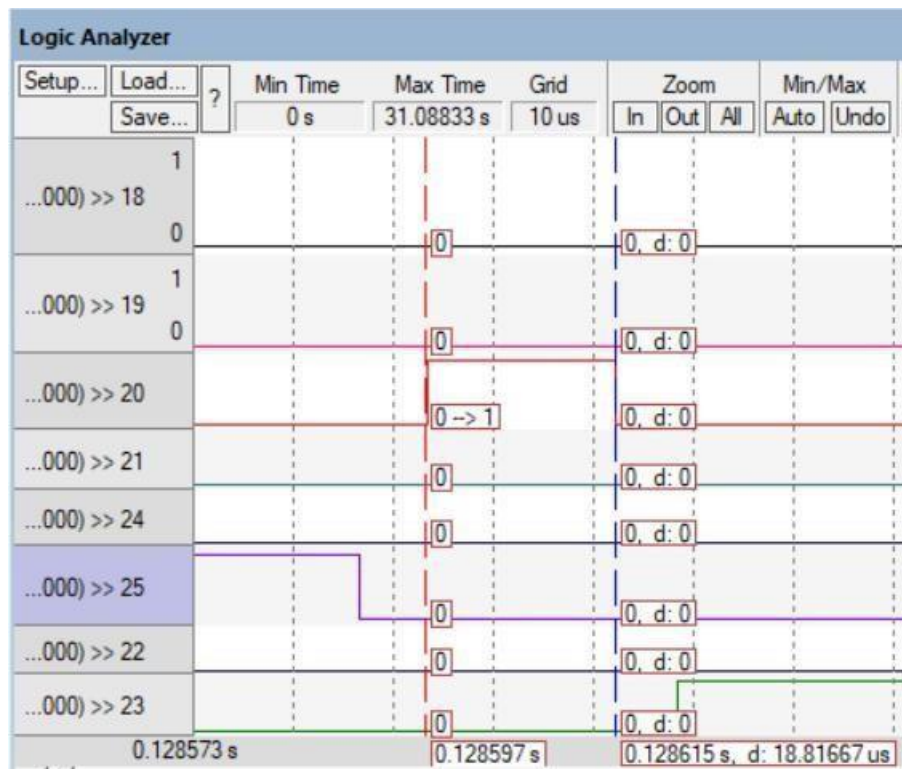
Task 1:



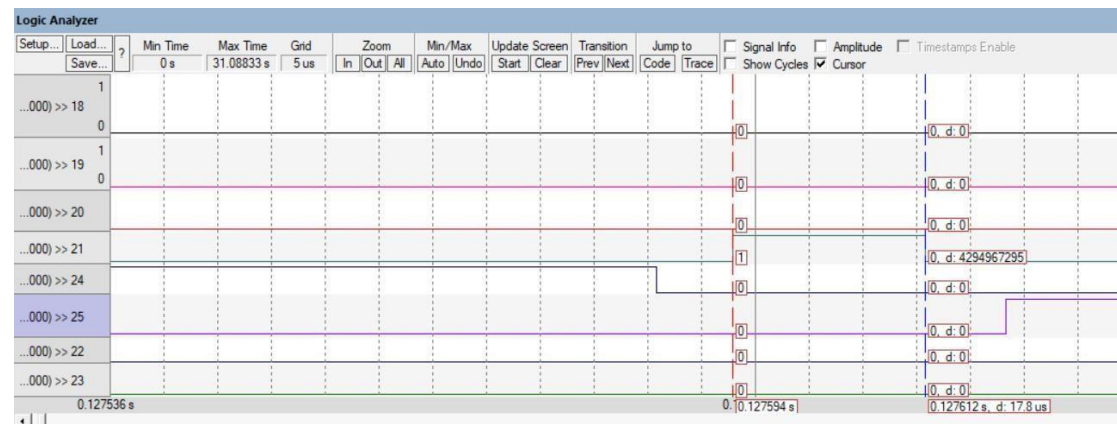
Task 2:



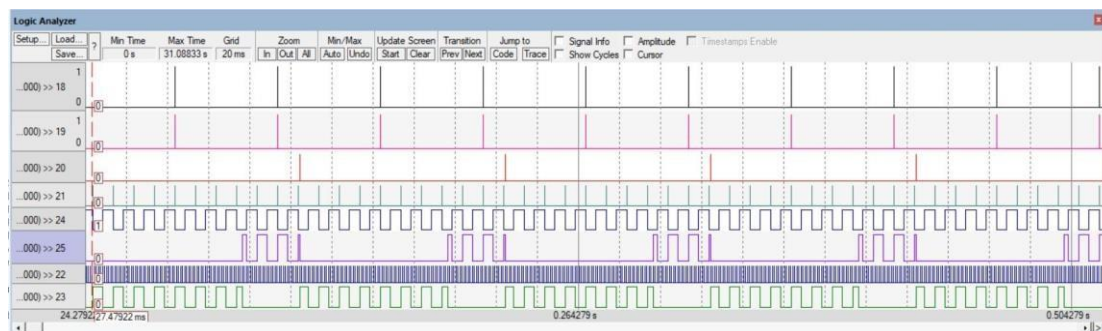
Task 3:

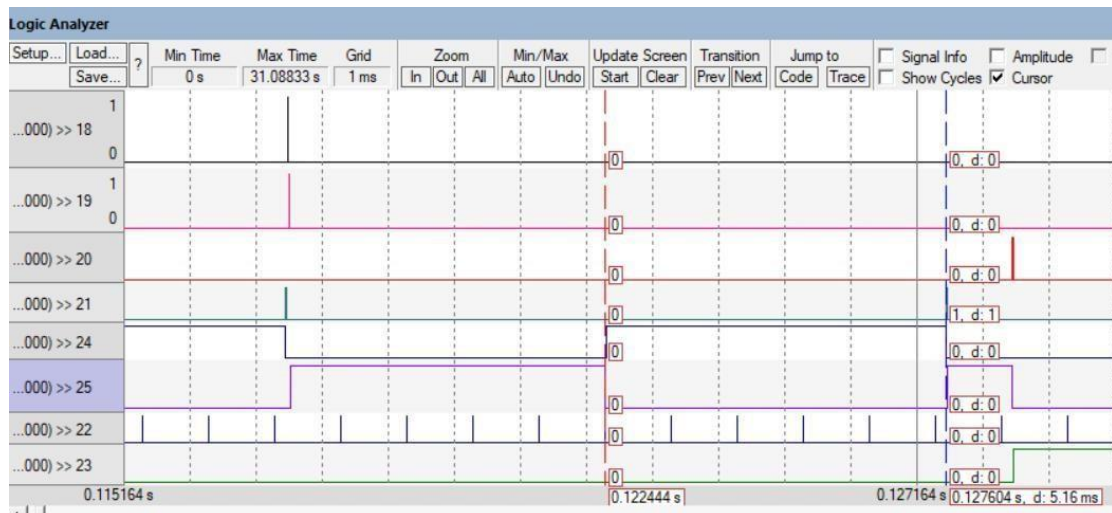


Task4:



Task5:





Data in logic analyzer :

Comments :

As analytical methods don't work on edf the results are not the same thus need for different

analytical methods [Cpu load](#) :

flag1	0x00000001	int
flag2	0x00000001	int
flag3	<cannot evaluate>	uchar
flag4	<cannot evaluate>	uchar
flag5	<cannot evaluate>	uchar
flag6	<cannot evaluate>	uchar
cpu_load	64	int
<Enter expression>		

Qt
Model data

General
Scheduler
Processors
Tasks

Scheduler
simso.schedulers.RM_mono

Scheduler Path
Open

Overhead schedule (cycles)
0

Overhead on activate (cycles)
0

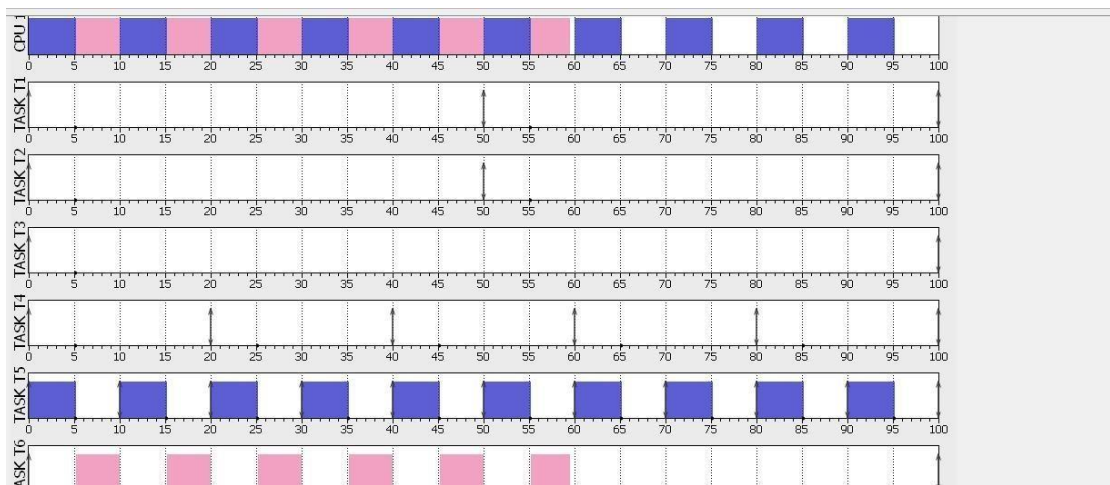
Overhead on terminate (cycles)
0

Edit extra fields...

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 type="checkbox"/> No	0.0	50.0	-	50.0	0.0013	▼ 1	1
2	TASK T2	Periodic	<input type="checkbox"/> No	0.0	50.0	-	50.0	0.0013	▼ 1	1
3	TASK T3	Periodic	<input type="checkbox"/> No	0.0	100.0	-	100.0	0.0018	▼ 1	1
4	TASK T4	Periodic	<input type="checkbox"/> No	0.0	20.0	-	20.0	0.0017	▼ 1	1
5	TASK T5	Periodic	<input type="checkbox"/> No	0.0	10.0	-	10.0	5.15	▼ 1	1
6	TASK T6	Periodic	<input type="checkbox"/> No	0.0	100.0	-	100.0	28.49	▼ 1	1

Edit data fields...

Remove selected task(s) Add task Generate Task Set



Results			
General			
Observation Window:			
from 0.00 to 100.00 ms		Configure...	
	Total load	Payload	System load
CPU 1	0.8001	0.8001	0.0000
Average	0.8001	0.8001	0.0000

Excepted for different scheduler to have different load