

EKT 424 – Lab Assignment 2a - Static Scheduler with precise timer and linux process.

Due Date: Video Report due 30th Nov 2020 before 11.59pm

Implement the static scheduler given in the table, of the following set of task $T_1 = (4, 1.0)$, $T_2 = (5, 1.8)$, $T_3 = (20, 1.0)$, $T_4 = (20, 2.0)$, (units in seconds) where the hyper period is 20 seconds.

You must use `fork()` and `exec()` family of system call to create your task. You may leave your task to do some dummy calculation as you have done in your lab 1

k	t_k	$T(t_k)$
0	0	T_1
1	1	T_3
2	2	T_2
3	3.8	I
4	4	T_1
5	5	I
6	6	T_4
7	8	T_2
8	9.8	T_1
9	10.8	I
10	12	T_2
11	13.8	T_1
12	14.8	I
13	17	T_1
14	17	I
15	18	T_2
16	19.8	I

Hint:

1. Create a C file to create enough number of process that u need.
2. For each task you will need a separate C file, which executable will be pass through the `exec()` function in the C file mention in hint number 1 above.

Deliverables:

1. **Code and output only with discussion** on how you design your solution. (Written Report)