Assignment 5

Part 1. Simulation assignment

Modify the python code in P\_RM.py to use firstfit instead of the current algorithm. Schedule the following task set on three processors using your modified algorithm.

T1(2,1) T2(2.5,0.1) T3(3,1) T4(4,1) T5(4.5,0.1) T6(5,1) T7(6,1) T8(7,1) T9(8,1) T10(8.5,0.1) T11(9,1)

ScheduleA picture containing diagram

Description automatically generated

Chart

Description automatically generated with low confidence

Utilization

Table

Description automatically generated

Python code

Text

Description automatically generated

Code searches for a cpu with available utilization based con the maximum Urm

Part 2. Programming

Create a queue and send the content of (double \*\*)c to the queue in matrixtask with before the vTaskDelay() call (hint: place the c variable in a struct).

-Create a reader task which reads the content of the queue in case there is something in the queue.

-In case the queue has some content it should save the data in a local (double \*\*) variable.

-Print out the content of the (double \*\*)c variable in case the content is updated. The data transferred from c should be a 10x10 matrix with the value 390 in each slot.

Screenshot of execution

