

IOT Analytics HW 1

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Interarrival time of RT = 10 , Interarrival time of nonRT = 5

Service time of RT = 2 , Service time of nonRT = 4

Assuming if departure of message from server and arrival of msg coincide, then departure is processed and then simultaneously the arrival is processed within the same step.

MC	RTCL	nonRTCL	n_{RT}	n_{nonRT}	SCL	s	pre-empt
0	3	5	0	0	4	2	
3	13	5	0	1	5	1	1
5	13	10	0	1	6	2	
6	13	10	0	0	10	2	
10	13	15	0	0	14	2	
13	23	15	0	1	15	1	1
15	23	20	0	1	16	2	
16	23	20	0	0	20	2	
20	23	25	0	0	24	2	
23	33	25	0	1	25	1	1
25	33	30	0	1	26	2	
26	33	30	0	0	30	2	
30	33	35	0	0	34	2	
33	43	35	0	1	35	1	1
35	43	40	0	1	36	2	
36	43	40	0	0	40	2	
40	43	45	0	0	44	2	
43	53	45	0	1	45	1	1

45	53	50	0	1	46	2	
46	53	50	0	0	50	2	
50	53	55	0	0	54	2	

Interarrival time of RT = 5 , Interarrival time of nonRT = 10

Service time of RT = 4 , Service time of nonRT = 2

Assuming if departure of message from server and arrival of msg coincide, then departure is processed and then simultaneously the arrival is processed within the same step.

MC	RTCL	nonRTCL	n_{RT}	n_{nonRT}	SCL	s	pre-empt
0	3	5	0	0	4	2	
3	8	5	0	1	7	1	1
5	8	15	0	2	7	1	1
7	8	15	0	1	8	2	
8	13	15	0	1	12	1	
12	13	15	0	0	14	2	
13	18	15	0	1	17	1	1
15	18	25	0	2	17	1	1
17	18	25	0	1	18	2	
18	23	25	0	1	22	1	
20	23	25	0	1	22	1	