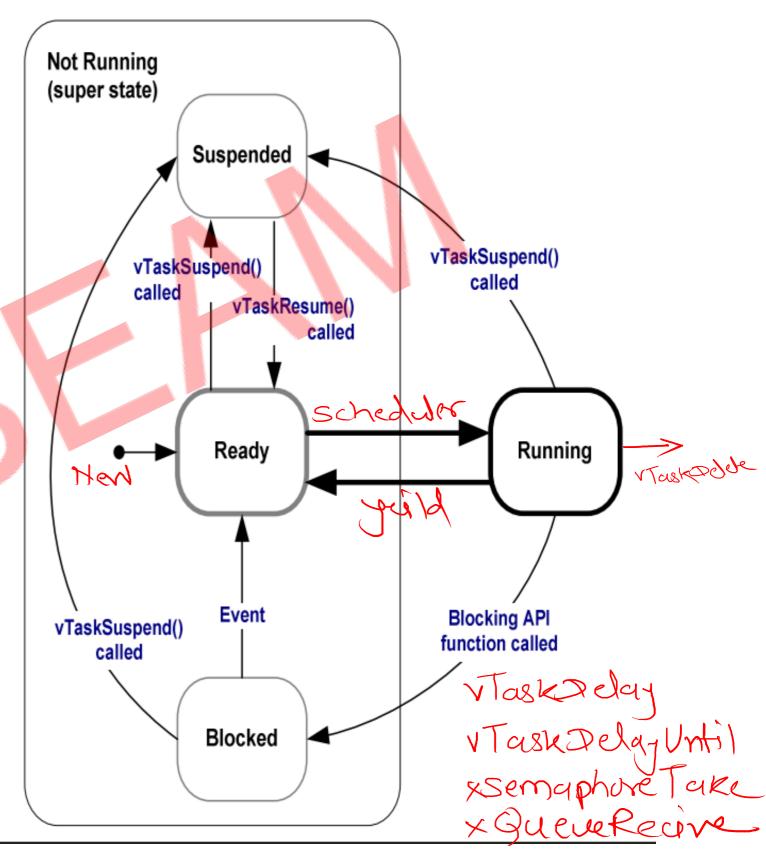


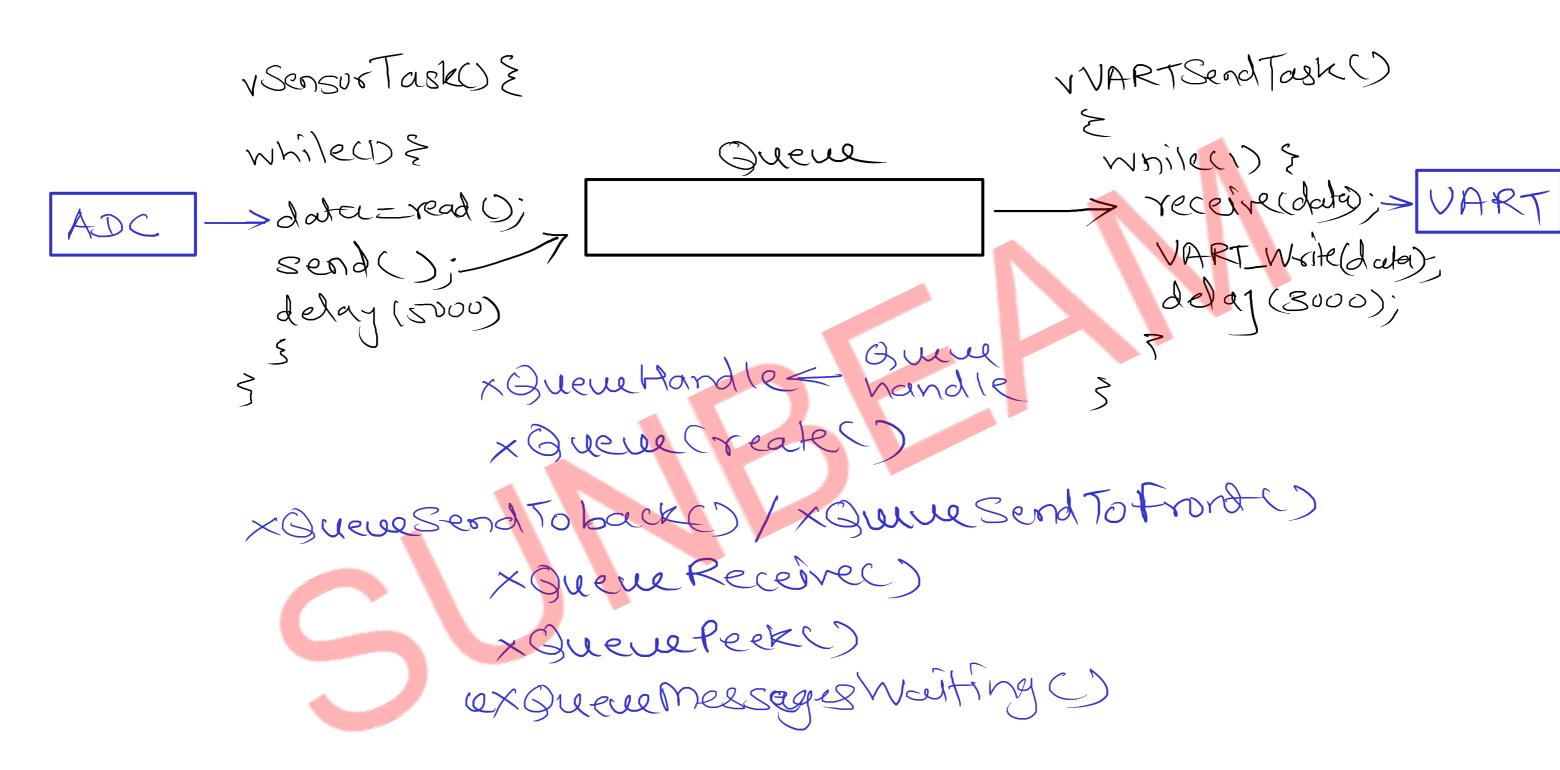
#### **Task States**

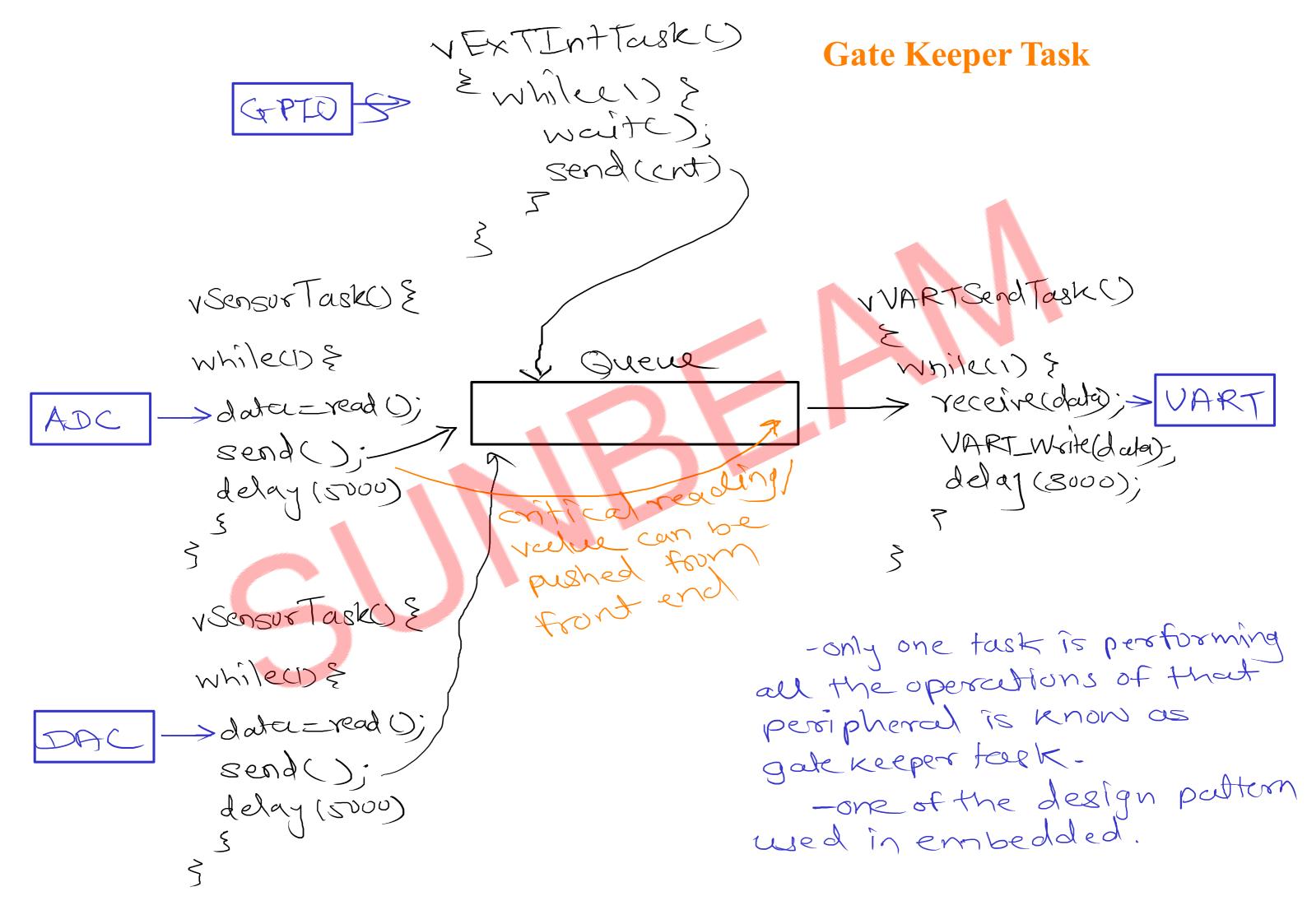
Snapped in/ switched in Mot Running Running switched out 1) Suspended -infinite block - task will be suspeded only when v Tasksuspend is celled - task will resume when vTaskResume will be called

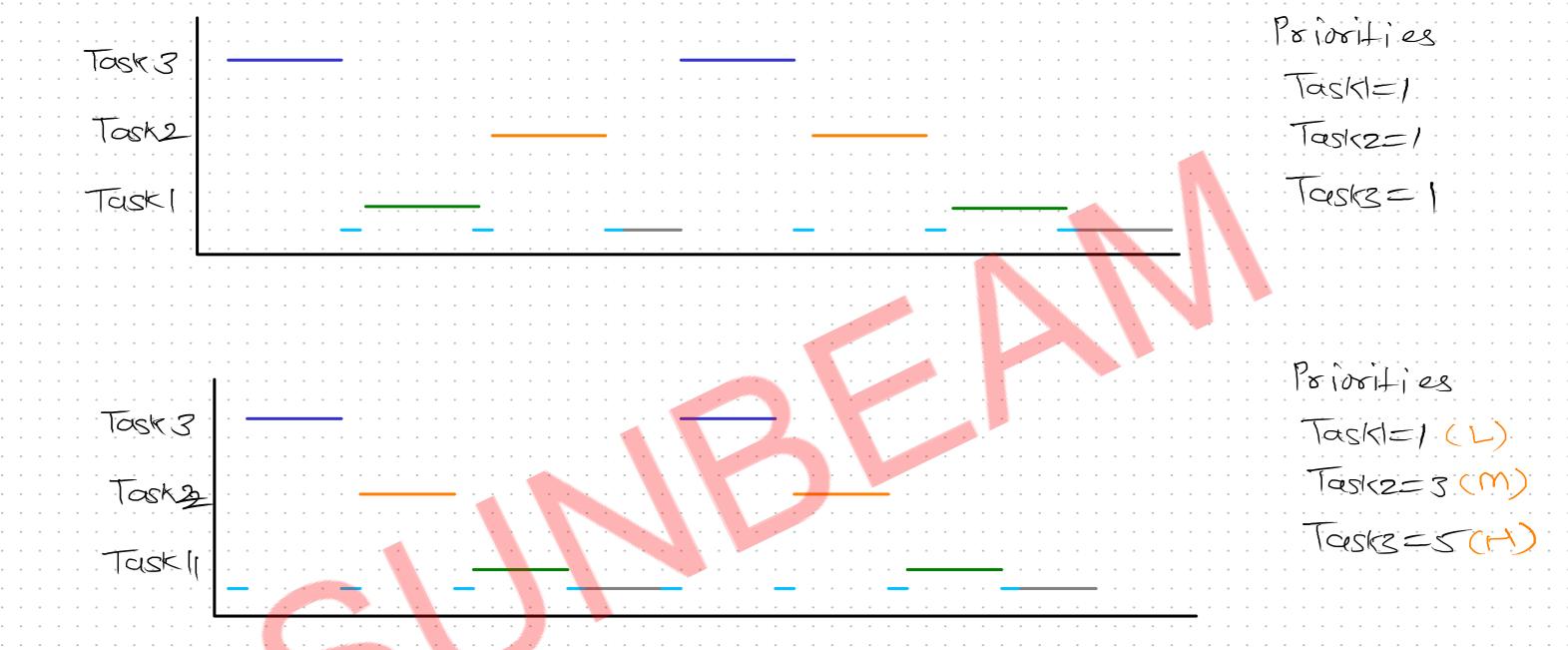


2> Ready - if fask is waiting to get CPV time (slice) 3) Blocked - Task will be blucked due to any one of the reason below - Idevent request - synchronisation \_ ITC-queul \_ blocking call (delag)

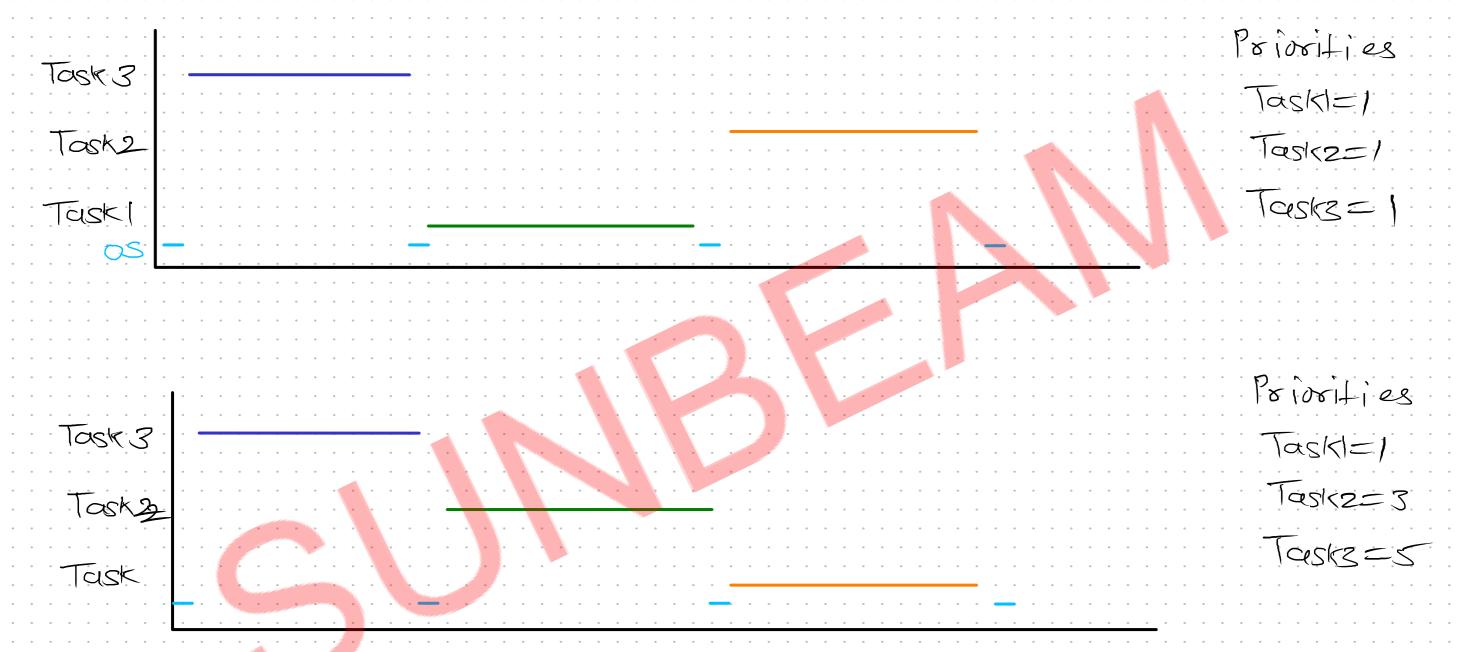
### Queue



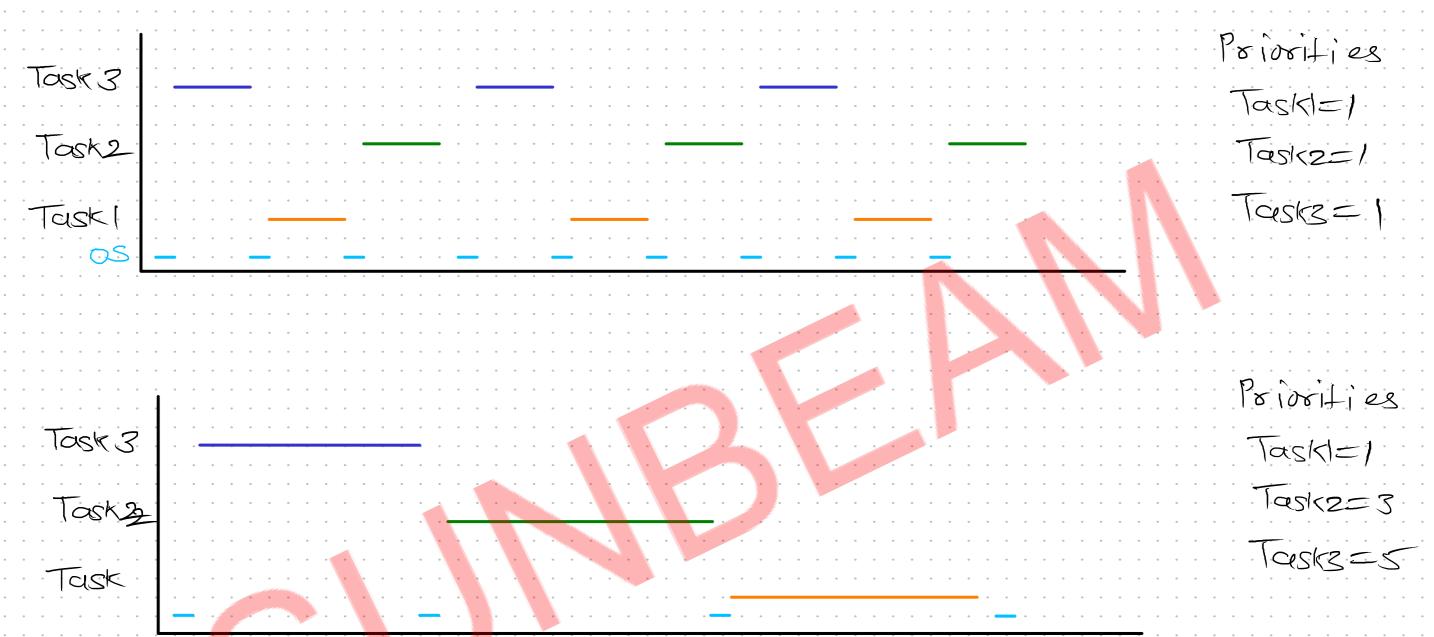




# Co operative Scheduling



## **Co operative Scheduling**



## **Co operative Scheduling**



## **Preemptive Scheduling**



#### **RMA**

T1 T2	CPU Burst 20 35	Deadline 50 100	Period 50 100	Hyper persod = LCM (P1, P2) = LCM (50, 100) = 100
1	R	clase poir phase	M/=0	personity person TI > T2 - Fixed static
0 10	20 30 ho	50 (0 10		110 120 130 140 150 160 170 180 150 200
		PU Utili	zationz	- <del>75</del> - 0.75 = 75%

CPV VHIlization = 
$$\frac{T1}{P1} + \frac{T2}{P2} = \frac{20}{50} + \frac{35}{100}$$

$$= \frac{40+35}{100} = 0.75 = 75\%.$$

#### **RMA**

CPU	Burst	Deadline	Period
<b>P1</b>	20	100	100
<b>P2</b>	30	150	<b>150</b>
<b>P3</b>	90	200	200

$$\frac{CPV}{VHilizalian} = \frac{20}{100} + \frac{30}{150} + \frac{90}{200}$$

$$=\frac{120+120+210}{600}$$

$$=\frac{510}{600}=0.85$$

max CPV = 
$$3*(2^{13}-1)$$
 wtilization =  $0.78$ 

Above task are not schedulable According to this test

max CPV = 
$$n^{2}(2^{n})$$
  
utilization

where  $n - no. DF + ast$ 

then task are not schedul-