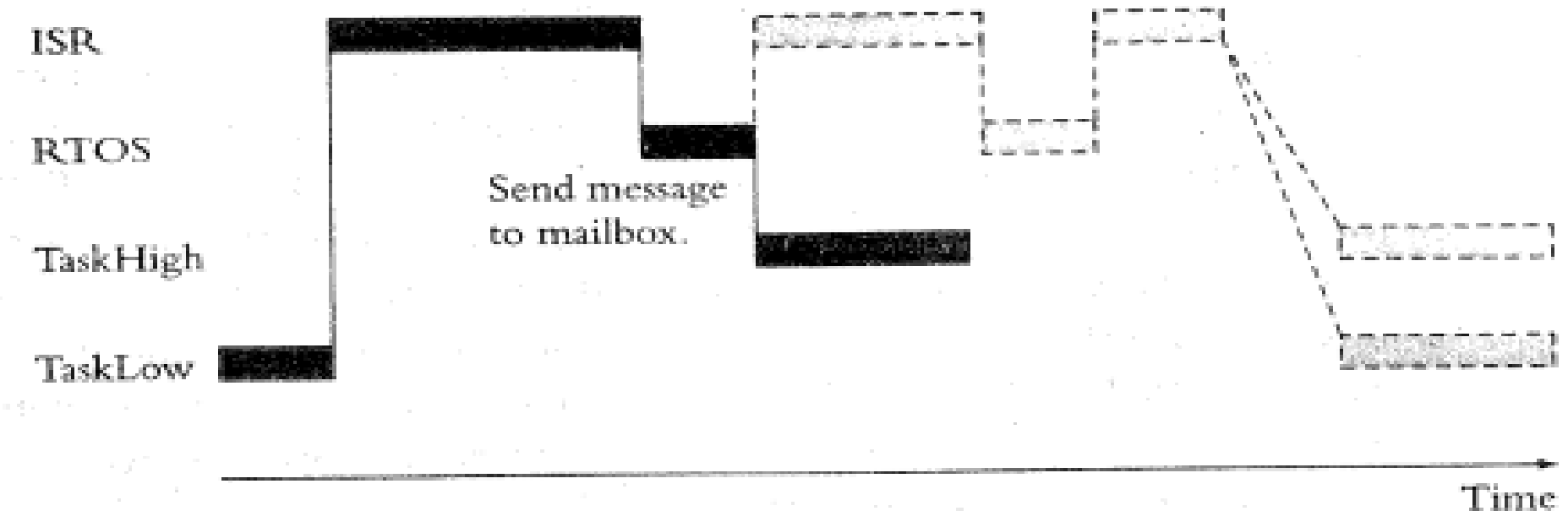# Real Time Operating System IV

Interrupt Processing

Rule 2: An interrupt routine must not call any RTOS function that might cause the RTOS to switch tasks unless the RTOS knows that an interrupt routine, and not a task is executing.
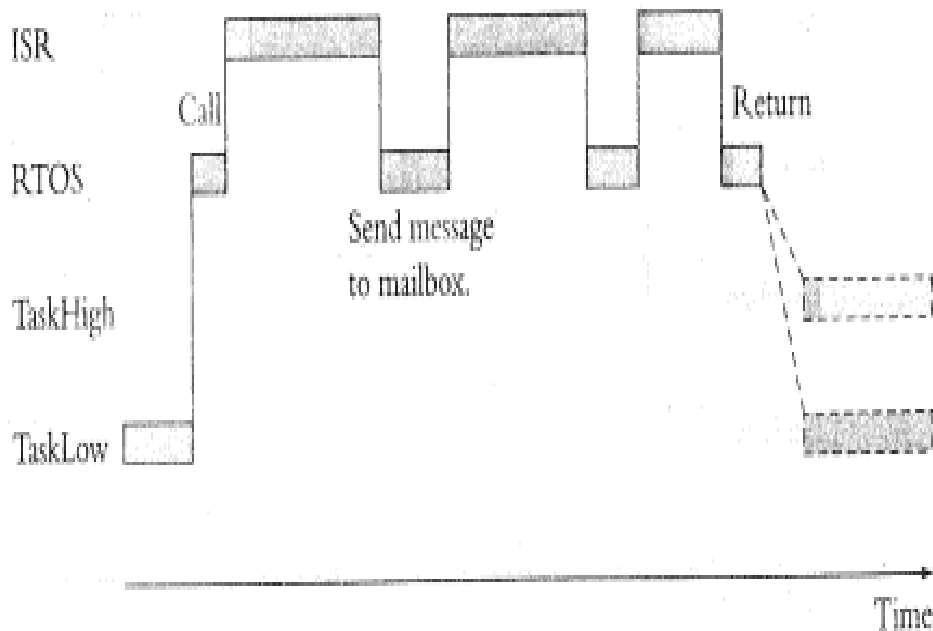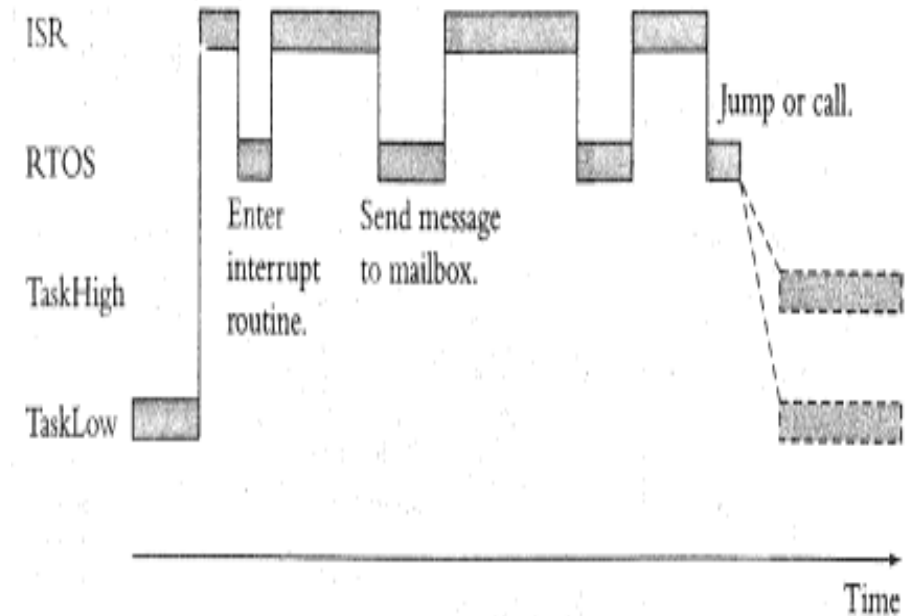
What would really happen:

Interrupt Processing

How Interrupt Routines Do work:

Plan A

Plan B

Interrupt Processing

Plan C:

❖ Separate set of functions especially for Interrupt Routines.

❖ OSISRSemPost is similar to that of OSSemPost except that it always returns to the interrupt routine that calls it, never to some other task.

❖ In this method, the RTOS also has function the interrupt Routine calls when it is over, and that function calls the scheduler.