HW5: Performance analysis I

Consider the process in figure 4.46.



(a) Determine the following performance indicators:

• Occupation rate (utilization) for each resource,

• Average WIP (work in progress),

• Average flow time (throughput time), and

• Average waiting time for each task.

Task 2 is a check task. The management thinks about a selective execution

of this task where only 25% of the cases are checked. The average

service time of this new task is 6 minutes.

(b) Determine the performance indicators again:

• Occupation rate (utilization) for each resource,

• Average WIP (work in progress),

• Average flow time (throughput time), and

• Average waiting time for each task.