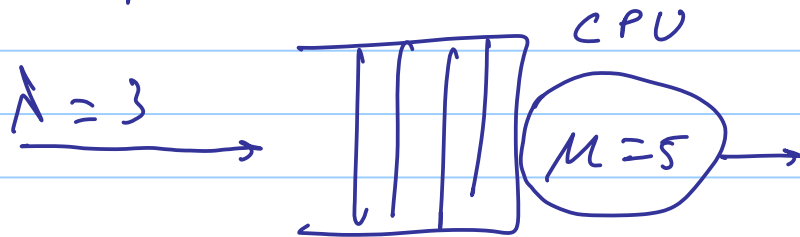


317. 150113

Note Title

2015-01-13

Example 1 ch. 1 [H]



Let $E[T]$ be the mean response time^(MRT) of the queueing system above.

Suppose that λ will double tomorrow. You are asked to buy a faster CPU to keep the MRT the same.

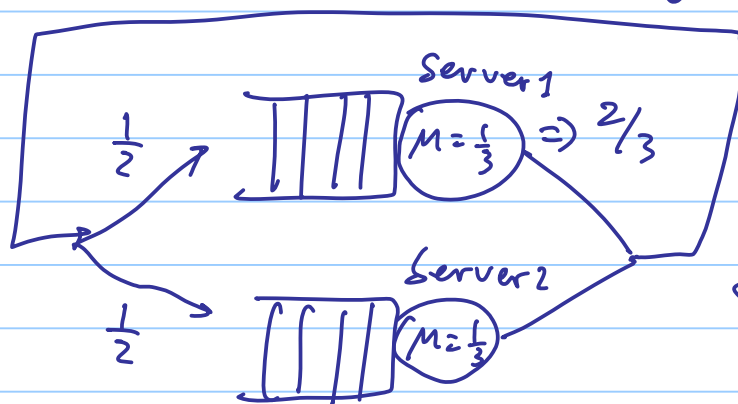
- Should you (a) double the CPU speed?
 (b) More than double the CPU speed?, or
 (c) Less than double the CPU speed?

Design

Example 2 ch. 1 [H]

$N=6$ jobs

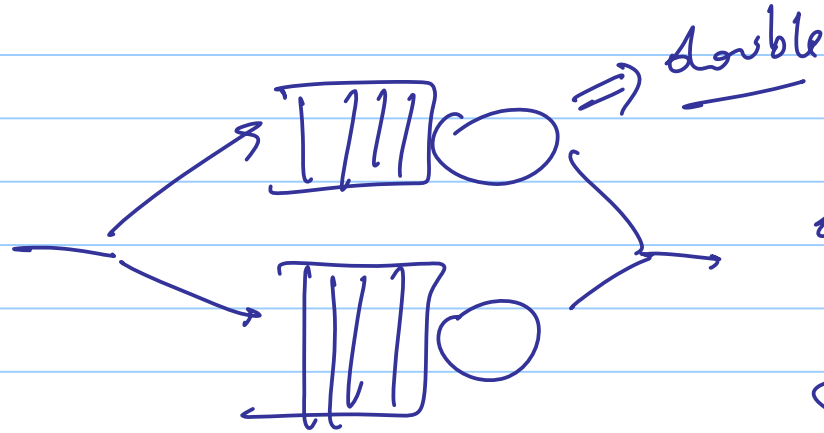
(closed system)



Faster server increases neither MRT or throughput appreciably

VS

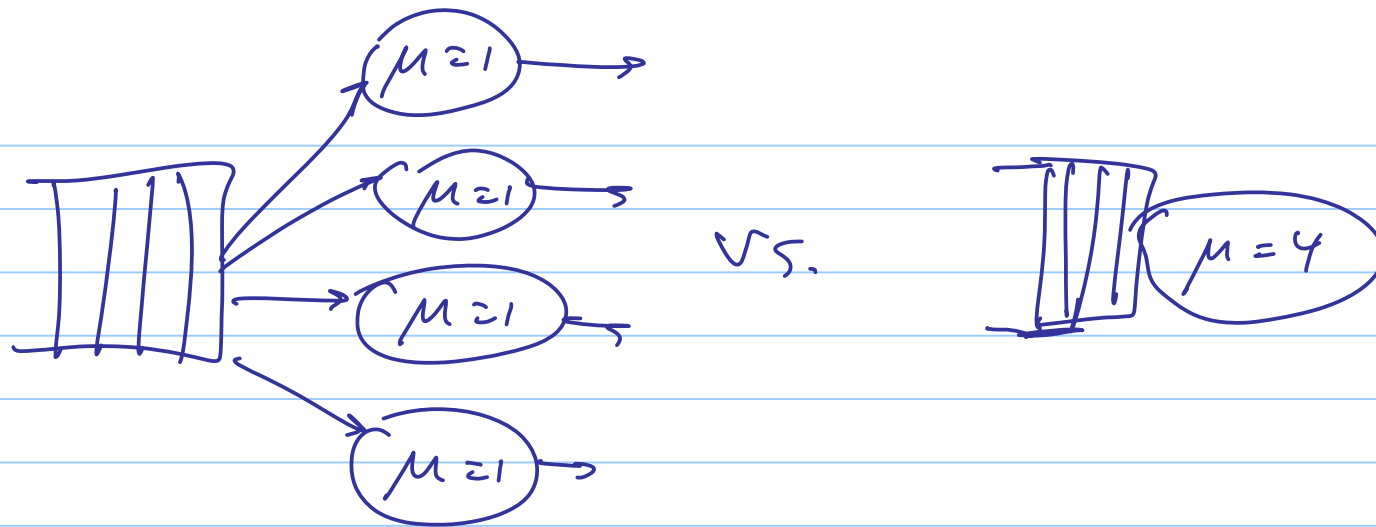
Open
system



Faster server
Does increase
MRT &
Throughput

Design Example 3 [H]

(One machine or many?)



Design Example 4 (Ch. 1 [H])

(Task assignment in a server farm)
(Task assignment policies)

