

Kendall's notation (1)

- $A/B/C/D$
 - A : Arrival Processes

Symbol	Name	Description
M	Markovian	Poisson process (or random) arrival process.
M^X	batch Markov	Poisson process with a random variable X for the number of arrivals at one time.
MAP	Markovian arrival process	Generalisation of the Poisson process.
$BMAP$	Batch Markovian arrival process	Generalisation of the MAP with multiple arrivals
$MMPP$	Markov modulated poisson process	Poisson process where arrivals are in "clusters".
D	Degenerate distribution	A deterministic or fixed inter-arrival time.
E_k	Erlang distribution	An Erlang distribution with k as the shape parameter.
G	General distribution	Although G usually refers to independent arrivals, some authors prefer to use $G $ to be explicit.
PH	Phase-type distribution	Some of the above distributions are special cases of the phase-type, often used in place of a general distribution.

Kendall's notation (2)

- $A/B/C/D$
 - B : Service time distribution

Symbol	Name	Description
M	Markovian	Exponential service time.
D	Degenerate distribution	A deterministic or fixed service time.
E_k	Erlang distribution	An Erlang distribution with k as the shape parameter.
G	General distribution	Although G usually refers to independent service time, some authors prefer to use $G $ to be explicit.
PH	Phase-type distribution	Some of the above distributions are special cases of the phase-type, often used in place of a general distribution.

- C : Number of machine
- D : Number in system

Kendall's notation (3)

- Using Erlang distribution
 - E_2

M/M/3

- Transition diagram

- P_n

In 17 Machines case

- Transition diagram

- P_n

M/M/1/7

- Transition diagram

- P_n

M/M/3/7

- Transition diagram

- P_n

In non-identical machines

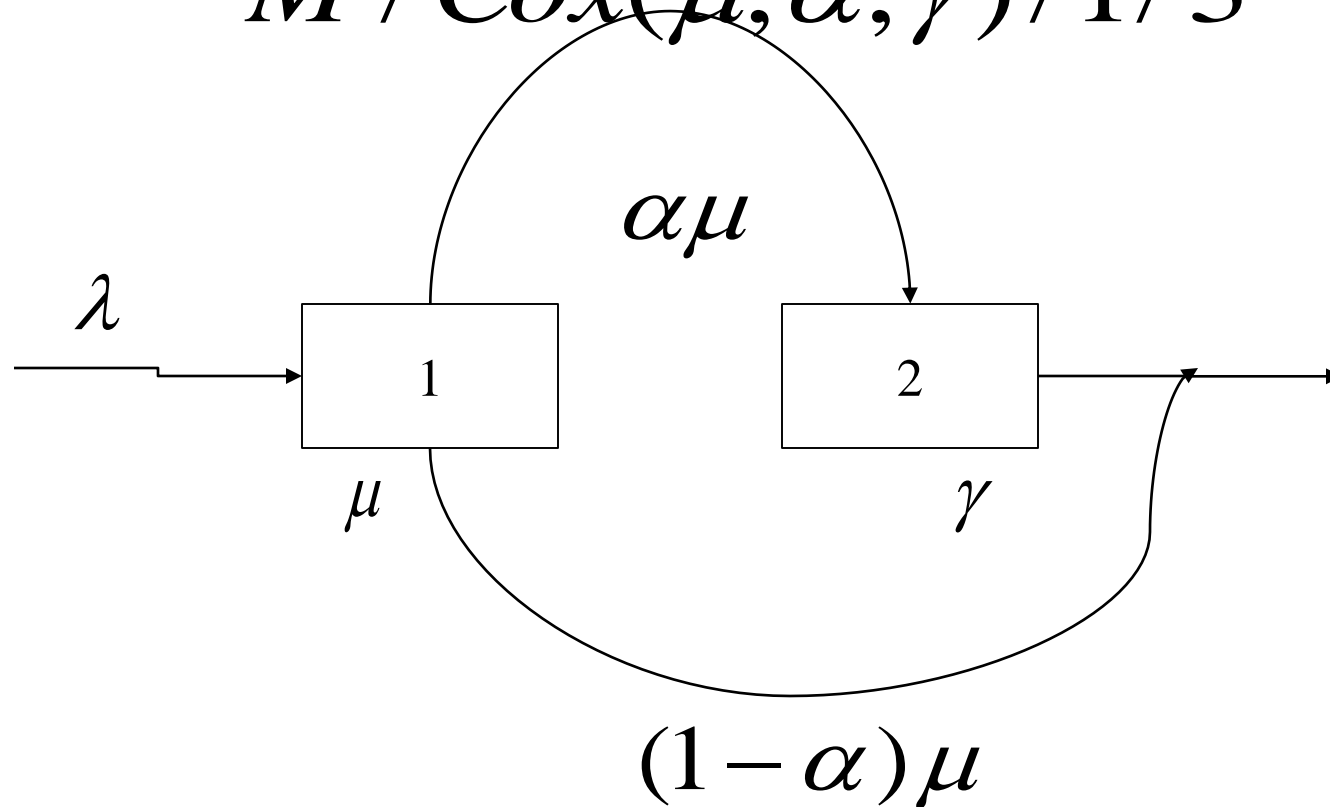
- Fast server (μ), slow server (δ)

In break-down case

- Rate
 - Arrival rate : λ
 - Service rate : μ
 - Rate of break down : γ
 - Time to repair : υ

Coxian case (1)

- Case of $M / Cox(\mu, \alpha, \gamma) / 1/3$



Coxian case (2)

- Transition diagram

Coxian case (3)

- Case of
 - $\lambda = 4$
 - $\mu = 6$
 - $\alpha = 0.1$
 - $\gamma = 5$

Coxian case (4)

- P_n

Coxian case (5)

- WIP

- Cycle Time