

Notation for Queueing Models (Kendall)

A/B/n/p/k

- A refers to the **arrival process**.
Assumption: IID interarrival times.
Interarrival time distribution:
 - M = exponential (memoryless)
 - D = deterministic
 - G = general
- B refers to **service times**.
Assumption: IID service times.
Service time distribution:
 - M = exponential (memoryless)
 - D = deterministic
 - G = general
- n = nr of (parallel) servers
- p = nr of system places
= nr of servers + waiting places
- k = size of customer population
- Default values (usually omitted):
 - $p = \infty, k = \infty$
- Examples:
 - M/M/1
 - M/D/1
 - M/G/1
 - G/G/1
 - M/M/ n
 - M/M/ $n/n+m$
 - M/M/ ∞ (Poisson model)
 - M/M/ n/n (Erlang model)
 - M/M/ $k/k/k$ (Binomial model)
 - M/M/ $n/n/k$ (Engset model, $n < k$)

IID = independently
and identically
distributed

THE END