

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
 - $M/M/\infty$ (Poisson model)
 - M/M/n/n (Erlang model)
 - M/M/k/k (Binomial model)
 - M/M/n/n/k (Engset model, n < k)

IID = independently and identically distributed Notation for Queueing Models (Kendall)



