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

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