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)
  - $M/M/n/k$ (Engset model, $n < k$)

IID = independently and identically distributed