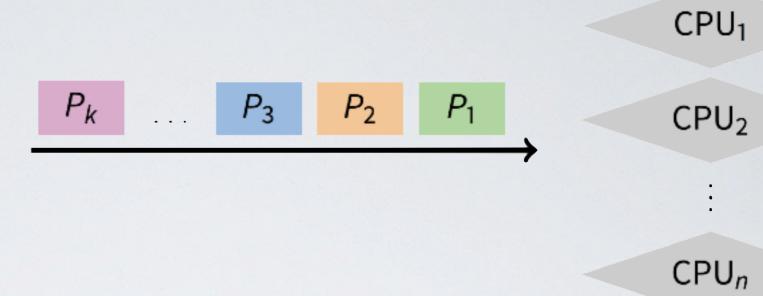
## The scheduling problem



- n threads ready to run
- k≥ I CPUs
- → Scheduling Policy which jobs should we assign to which CPU(s)? and for how long?

## Non Goals: Starvation

**Starvation** is when a thread is prevented from making progress because some other thread has the resource it requires (could be CPU or a lock)

- → Starvation is usually a side effect of the scheduling algorithm
  - e.g a high priority thread always prevents a low priority thread from running
- → Starvation can be a side effect of synchronization (forthcoming lecture)
  - · e.g constant supply of readers always blocks out writers