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- 1. Concurrency: Support more than one task making process

  Parallelism: Imply a system cun perform more than one task simultaneously.
  - 2. 1) Identifying task @ Balance 3 Data splitting 4 Data dependency 1 Testing & Debugging
- - S: partion of the application that must be performed serially on a system.
  - N: processing code.
  - 4. O Asychronous threading
    - a. Parent resumes its execution after generating child thread.
    - b. Run parent and child concurrently and independently.
    - c. Little data sharing
    - @ Sychronous threading
      - a. Parent waits for all of its children threads to terminate.
      - b. Children threads run concurrently
      - ci Significant data sharing
  - 51 Multilevel queue scheduling
    - -> Ready gnene is sperated into two parts foreground and background.
    - 7 Each quene has its own scheduling algorithm.
      - a. Foreground RR
      - b. Background FCFS

## 5. Difference

- a. In MLFQ, process can move between the various queues, and MLQ can't do. that
- b. In MLFQ, the queues are classified as higher priority queue and lower queue, and this can avoid starvation. In MLQ, the priority can't change, so may cause starvation
- 6. Convoy effect short process behind long process
- 7. O Knowing the length of the next CPV request
  - @ Estimate the length should be similar to the previous one
- 8. O Problem = Starvation (indefinite blocking) Low priority processes may never execute.
  - @ solution = Aging as time progressess increase the priority of the process.