

A decorative graphic consisting of a thin gold circle on the left side. A thick, light olive-green horizontal bar spans across the middle of the slide. On the left side of this bar, there is a large black left square bracket. On the right side, there is a large gold right square bracket. The text 'Concurrency, Processes, and System calls' is centered within the green bar.

Concurrency, Processes, and System calls

- Benefits and issues of concurrency
- The basic concept of process
- System calls

[*Concurrency*]

- Allows multiple applications to run at the same time
 - Analogy: juggling

[Benefits of Concurrency]

- What are the limitations without concurrency?
 - Long response time
 - Resources under utilized
- Better resource utilization
 - Resources unused by one application can be used by the others
- Better average response time
 - No need to wait for other applications to complete