Find space in memory

Create a process (system call)

Copy executable code

Set up stack & heap

Create a Pcb

Put Pcb in scheduler
Cooperating processes →

- inter process communication
  - message passing
  - remote proc calls (RPC)
  - method invocation (RMI)


1. Information Short
2. Comprehension Short
3. Medically
4. Convenience

Buy new product 2x
Assume 1 processor

CPU scheduling basics

How to pick

Ready

Pools

Running

2
Diagram of computer architecture, showing CPU, I/O, and memory components.
\[
\begin{align*}
6 & \quad 3 \\
\text{Tr} & = \frac{1}{3} \\
\text{th} & = \frac{1}{4} \\
\text{Nh} & = \frac{1}{6} = 66.6\% \\
\text{P} & = 2 \quad 3 \\
\text{Send} & = \text{Subtracting}
\end{align*}
\]
2. Forms of scheduling

1. Non-preemptive

2. Preemptive

Can restart if not burst

Check burst

Can stop

Preemptible

Preemptible

Preemptible

Preemptible

Preemptible

Preemptible

Preemptible

Preemptible

Preemptible

Preemptible

Preemptible

Preemptible
\[ \frac{1}{4} \cdot \frac{2}{3} = \frac{1}{2} \]

Turn \( \frac{2}{3} \) to \( \frac{2}{5} \) until \( \frac{1}{2} \) meets \( \frac{1}{4} \) to the end.

Read: P

P: 1 2 3 4

Q: 1 2 3 4

O: P, P

Non preemptive scheduling
Pick the shortest one with burst. Then pick one from the pool of processes.
If $x$ can approximate any symmetric $p_i$
In essence:

1. CPU burst times are not known

2. STF leads to starvation

Step 1: Optimize on transaction time

Step 2: Use useful/informative...
Priority scheduling may stage many processes.

The priority scheduling algorithm involves dynamic scheduling with priorities.

Dynamic scheduling has priorities.

Processes with highest priority are run first.

FIFO (First In First Out) is a scheduling algorithm.

Shortest Job First (SJF) is another scheduling algorithm.

Processes with short lengths of CPU time are run first.

Processes with dynamic scheduling may stage many processes.

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