

Scheduling

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February 22, 2006



When does the scheduler run?

- Process exits run state



When does the scheduler run?

- Process exits run state
 - Terminates

When does the scheduler run?

- Process exits run state
 - Terminates
 - Moves to wait state



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 - Moves to wait state
 - Moves to ready state
- Process enters ready state
 - Moves from wait state
 - Created

Evaluating scheduling algorithms

- *CPU Utilization*: keeping CPU busy

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- *Throughput*: finishing many jobs



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Evaluating scheduling algorithms

- *CPU Utilization*: keeping CPU busy
- *Throughput*: finishing many jobs
- *Turnaround*: pleasing the users
- *Waiting*: minimizing ready queue
- *Response*: let the user start working

- Convoy effect

Issues to think about

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- To preempt or not to preempt . . .

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- Convoy effect
- To preempt or not to preempt . . .
- Starvation

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 - Load balancing

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 - Processor affinity

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 - SMT vs. SMP