

Process	Activity
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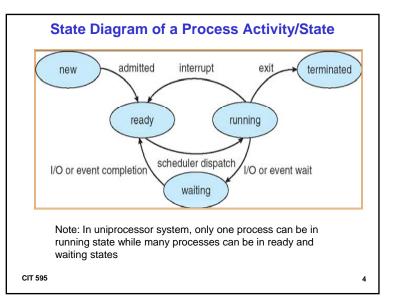
As process executes over time it can be doing either of the activities or is in following states :

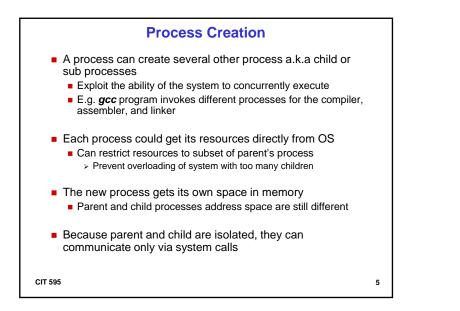
State/Activity	Description
new	Process is being created
running	Instructions are being executed on the processor
waiting/blocked	Process is waiting for some event to occur
ready	Process is waiting to use the processor
terminated	Process has finished execution

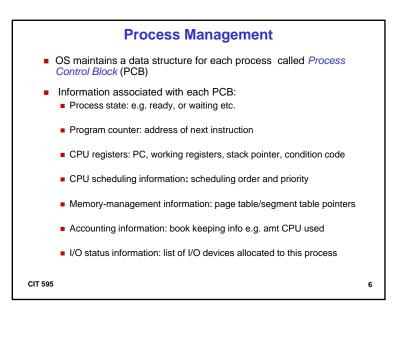
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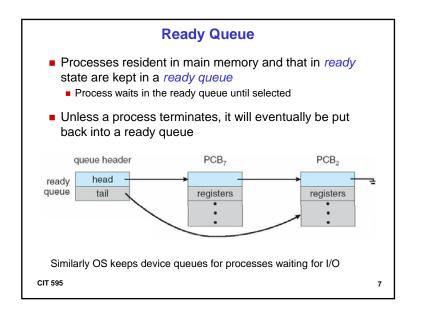
Note: state names vary across different OS

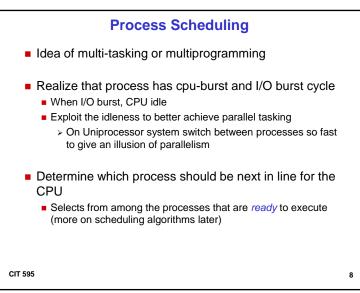
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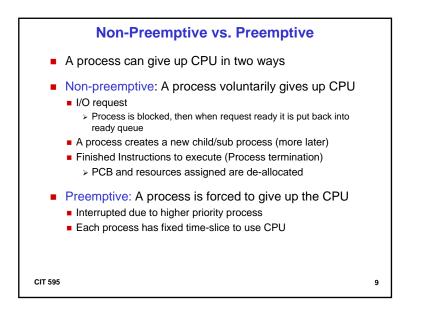


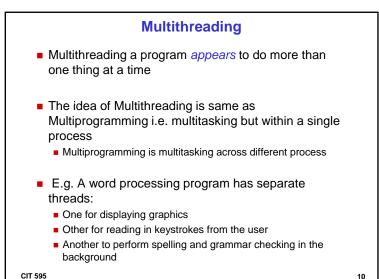


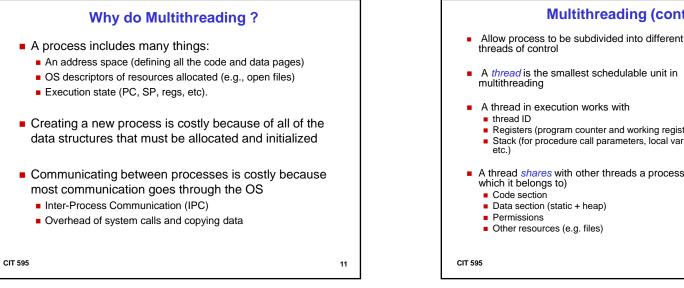


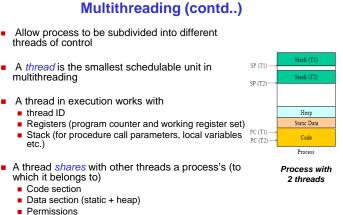


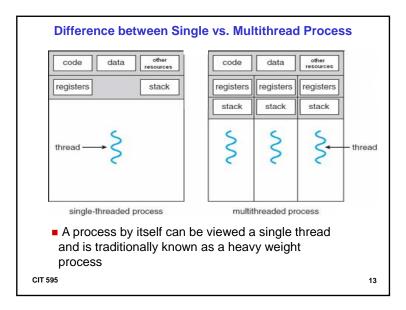


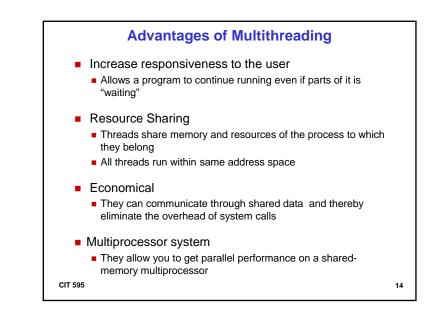


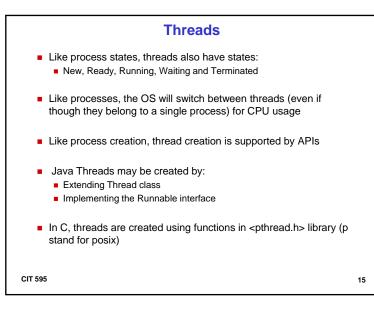


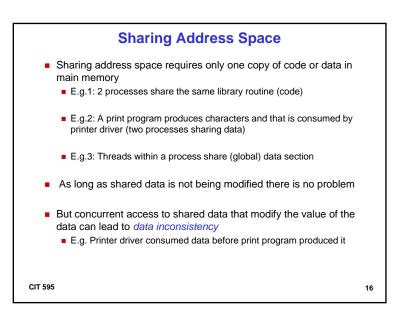


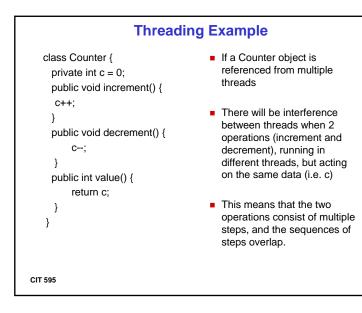


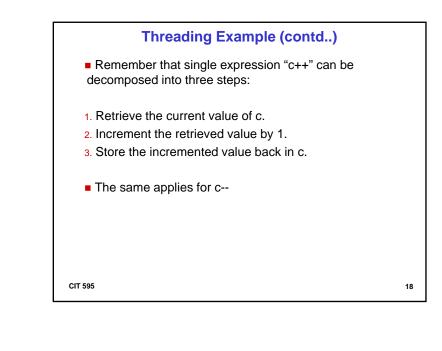


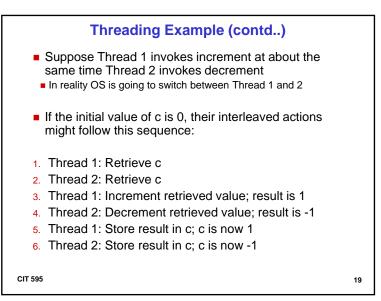












Race Condition

- In previous example, Thread 1's result is lost, overwritten by Thread 2
 - Many different interleaving can result in different value of "c"
- Race Condition
 - Several process/threads access and manipulate the same data concurrently and the outcome of the execution depends on the particular order in which the access takes place

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