



## Special Features of OS

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- multi-tasking
- multi-programming
- parallel processing



# Multi-tasking

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- To handle 2 or more programs at the same time from a single user 's perception—CPU can only perform one task at a time, however, it runs so fast that 2 or more jobs seem to execute at the same time



# Multiprogramming

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- Multiprogramming is a technique to execute number of programs simultaneously by a single processor.
- In Multiprogramming, number of processes reside in main memory at a time.
- The OS picks and begins to executes one of the jobs in the main memory.
- If any I/O wait happened in a process, then CPU switches from that job to another job.
- Hence CPU in not idle at any time.



# Parallel Processing

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- use 2 or more CPUs to handle jobs
- computer networking



# Basic introduction to DOS, UNIX/LINUX OS, Windows XP

UNIX	DOS	MAC OS	MS Windows	LINUX	Palm OS/Pocket PC
Multiuser, Multi-tasking	Single-user, Single-tasking	Single-user, Multitasking	Single-user, Multitasking	Multiuser, Multitasking	Single-user, Multitasking
Command line user interface (CUI)	Command line user interface (CUI)	Graphic user interface (GUI)	Graphic user interface (GUI)	Command line user interface (CUI) , GUI	Graphic user interface (GUI)



# Basic introduction to DOS, UNIX/LINUX OS, Windows XP

UNIX	DOS	MAC OS	MS Windows	LINUX	Palm OS/Pocket PC
UNIX has several versions but they lack interoperability	DOS has been replaced by MS windows OS	MAC OS has easy-to-use GUI	First MS OS is MS Windows 95	LINUX is an open source software	They are specifically designed for PDA
Network OS	Desktop OS	Desktop OS	Desktop OS	Network OS	Mobile OS



# Assignment 8

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Write a short note on Windows NT.