### Cheatography

#### Operating Systems Cheat Sheet by goodphone via cheatography.com/19528/cs/2564/

Roles of an OS		
Applicati on software	Programs that help us solve real- world problems	
Systems software	Programs that manage a computer system and interact with hardware	
Operatin g system	System software that manages computer resources and provides an interface for system interaction	

Interactio



The operating system in its relative position among computer system elements.

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#### By goodphone

cheatography.com/goodphone/

#### Memory, Process, and CPU Managemen

Multipro grammi ng	The technique of keeping multiple programs in main memory at the same time, competing for the CPU
Memory manage ment	The act of keeping track of how and where programs are loaded in main memory
Process	The dynamic representation of a program during execution
Process manage ment	The act of keeping track of information for active processes
CPU scheduli ng	The act of determining which process in memory is given access to the CPU so that it may execute
Timesha ring	A system in which CPU time is shared among multiple interactive users at the same time
Virtual machine	The illusion created by a timesharing system that each user has a dedicated machine

## Memory, Process, and CPU Management (cont)

Mainfra	A large, multi-user computer often
me	associated with early timesharing systems
	•
Dumb	A monitor and keyboard that allow
terminal	the user to access the mainframe
	computer in early timesharing
	systems

#### Memory Managemen

Logical address	A reference to a stored Logical address value relative to the program making the reference
Physical address	An actual address in the main memory device
Address binding	The mapping from a logical address to a physical address

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