0		
8	1100	
*		CSC 139 Chap1
8		OS can be viewed as a resource allocator or control program controls ito devices
*		Kernel - the as running all the time on a computer
*	100	middleware - softwee Francisco that provide additional services burdled in with Os
	X	OS include the kernel that is always running, middle frameworks & system
*		programs that aid in managing the system while its running.
*	1.2	Computer-System Organization
8		bus provides actors between components & memory
8		Device Controller-responsible for moving date between peripheral devices
8		Device Priver - each device controller has a driver & provide as with a uniform
*		intoface to device
*		memory controller synchronizes access to memory
		interest - done by scroling signal to cou by using system bus, saging that
***		an event need attention
-	4	1. Controller reises on interest by sending a signal on request intempt request line
19	0	2. Cpu catches interest 3 dispatches it to interest handler
1		3- Hadler clears the interret by serviceing device
1		interest chaining - each element in interest vector point to list of interest
1		haders that can service reques
1		bootstrap program - first program to run on computer power on, which Locals Os
9		metworking uses bits, Storage we bytes
_	2-1-2-1-4	Secondary Storage - Non violatile, such as HDDs
-		Primary Storage-rom, cache, registers
0		DMA - direct memory Access - device controller sends one big chunk of data using
1	101	directly to main momony with bothering Coo
-	1.3	core-executer instructions & registers for storing dute locally
-	15.	multiprocessor. 2 or more processors with a single cone
-		multicore systems - multiple cores on a single chip, less power, faster communication
**		Processor- Chip that contains one or more cous
•	L	Cpu- executes instructions
	0	cure - besic computation unit of cpu
-		muticare - many core on cpu
o de		

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	CSC 139 Chep 1 Continued	
	Non Uniform memory Access (Numa) - provide group of cous	
	local memory, fastor to access Local mem	188
	blile servers - multiple processor boards, ilo boards, Networking boards	100
and the state of the	placed in some chassis	
	Clusterd System- gether mutigle cous together, composed of	
	multiple Nodes. A Nide is a multicure system. Share storage	
1 11	3 connected by LAN	-
1.4		-
	trap- or exception software generated interupt	_
	process- Program in execution	
	Multiprogramming-run more than I program at a time	1
1	Multitisking - cpu executes multiple process by switching among then	_
	mode bit - kunr (0) (uso)	-
يو الأن	system call - for a user program to ask the operating system	
	to do tesk that a user program couldn't do	
1,5	Os process management - creates & deletes user & system process,	
3.	Schedules process & threeds on coo, suspending & resuming process,	
	providing mechanism for process signe, mechanisms for process	
Lis da la	communications	
	Os memory management-keep track of memory & what process are	
V	Using menory, Allocating & deallocating menory space, making	
	process & deta in and out of memory	
.1 .	OS File management - creating & Seleting Files, & directories to	
	organize Files, Supporting primetives for file and directory manipulation,	
	mapping files onto mass storage, buxing up files on Nunvolotile media	
	Os Mess Sturege management - Mounting & unmanting, Free space management,	
1.6	Storage allocation, disk scheduling, Partitioning, protection	
	Os System Magazent - menurs management comparent that includes	
	buffering, eaching & spooling, device driver interface Drivers for	
	spectic hadrage devices	-
		-

