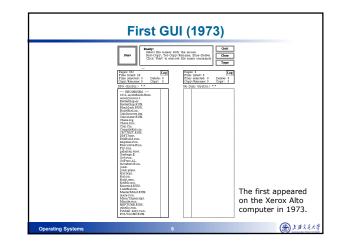
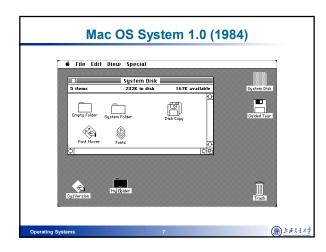
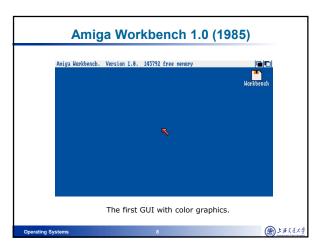
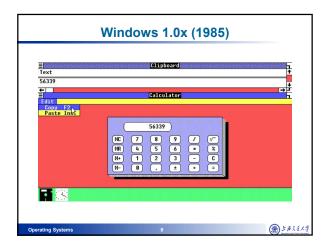


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fd0		0.0			0.0	0.0	0.0	0.0			
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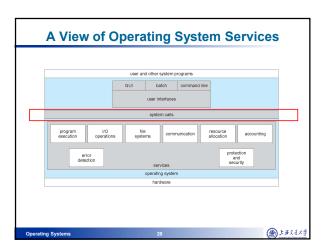


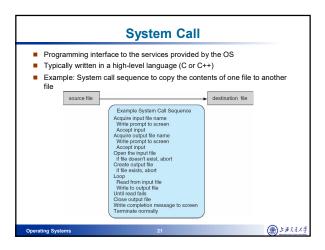


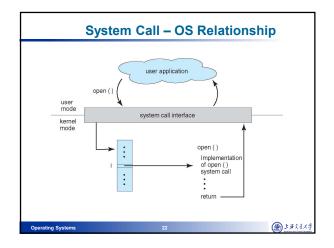


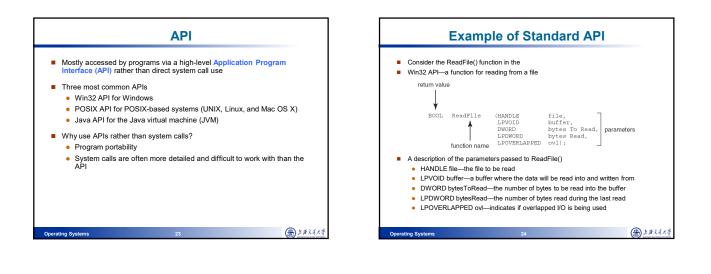


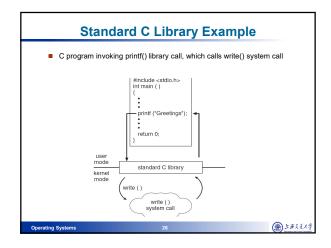


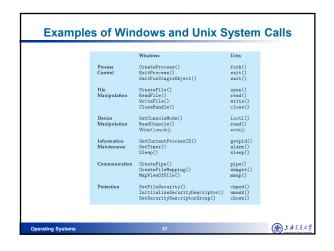


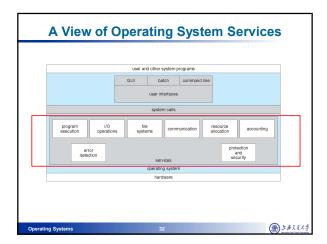


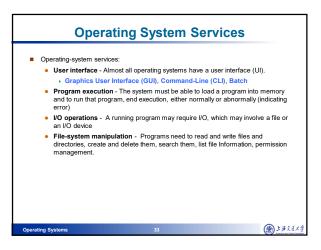












Operating System Services (Cont.)

- Communications Processes may exchange information, on the same computer or between computers over a network
 - Communications may be via shared memory or through message passing (packets moved by the OS)
- Error detection OS needs to be constantly aware of possible errors
 May occur in the CPU and memory hardware, in I/O devices, in user program
 - For each type of error, OS should take the appropriate action to ensure correct and consistent computing

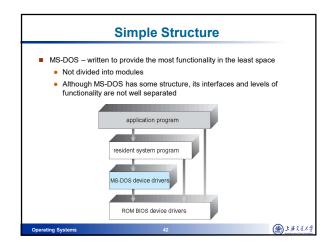
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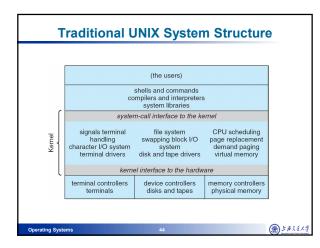
 Debugging facilities can greatly enhance the user's and programmer's abilities to efficiently use the system

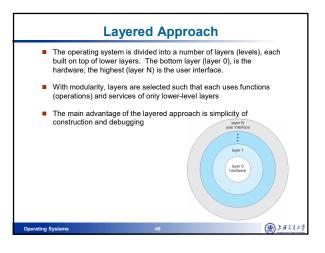
Operating System Services (Cont.) Sesource allocation - When multiple users or multiple jobs running concurrently, resources must be allocated to each of them. Accounting - To keep track of which users use how much and multiuser of computer resources. Protection and security - The owners of information stored in a multiuser or networked computer system may want to control use of that information, concurrent processes should not interfere with each other. Protection involves ensuring that all access to system resources is controlled. Security of the system from outsiders requires user authentication, extends to defending external I/O devices from invalid access attempts.

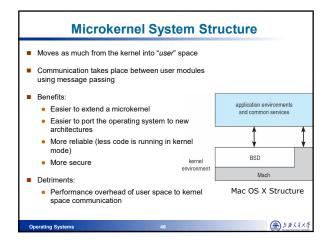
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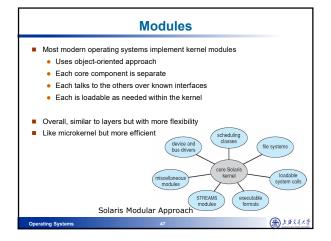


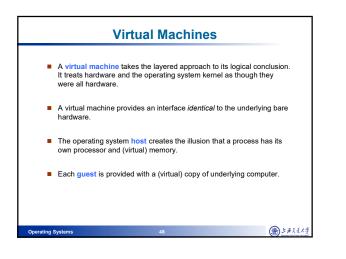


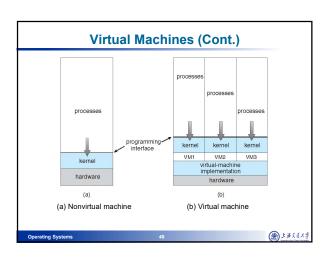












application	application	application	application
	guest operating	guest operating	guest operating
	system (free BSD)	system (Windows NT)	system (Windows XP)
	virtual CPU	virtual CPU	virtual CPU
	virtual memory	virtual CPO virtual memory	virtual CPO
	virtual devices	virtual devices	virtual devices
		virtualization layer	
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