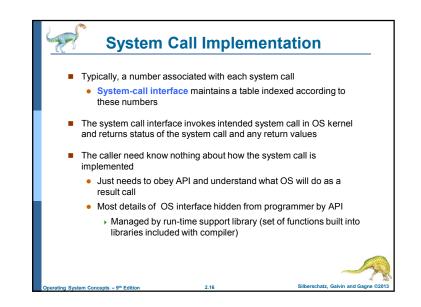
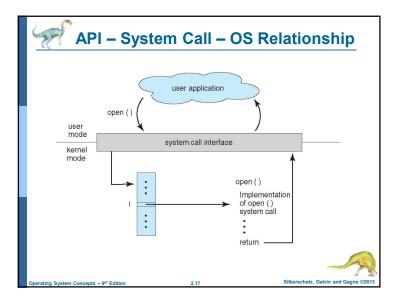
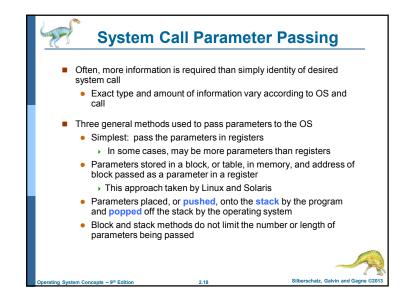
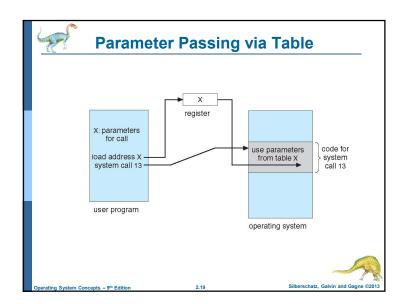


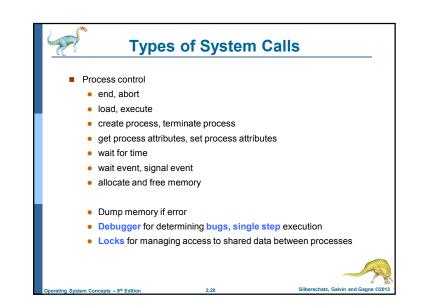
Ser .	Example of Standard AP	2
	EXAMPLE OF STANDARD API	
	As an example of a standard API, consider the read() function tha available in UNIX and Linux systems. The API for this function is obtain from the man page by invoking the command	
	man read	
	on the command line. A description of this API appears below:	
	<pre>#include <unistd.h></unistd.h></pre>	
	ssize_t read(int fd, void *buf, size_t count	
	return function parameters value name	
	A program that uses the read() function must include the unistd.h hea file, as this file defines the ssize.t and size.t data types (among ot things). The parameters passed to read() are as follows:	
	 int fd—the file descriptor to be read 	
	 void *buf —a buffer where the data will be read into 	
	 size_t count—the maximum number of bytes to be read into buffer 	the
	On a successful read, the number of bytes read is returned. A return value 0 indicates end of file. If an error occurs, read() returns -1.	e of
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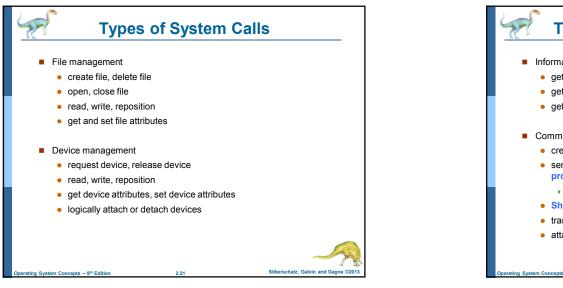


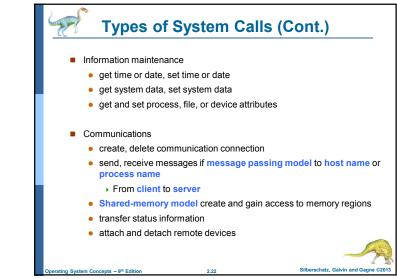


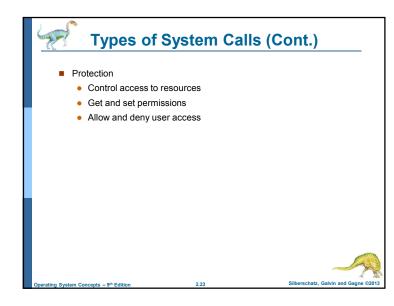


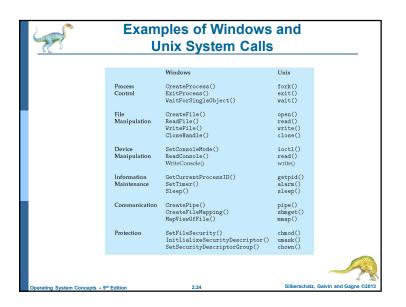


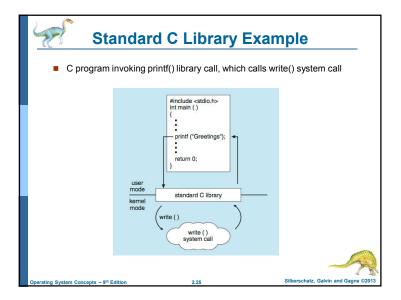


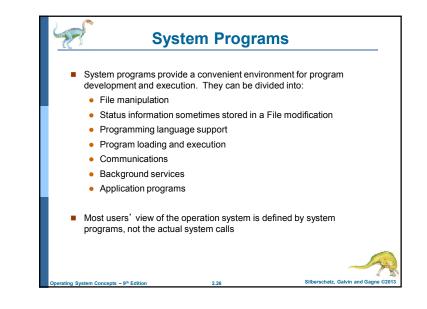












System Programs

- Provide a convenient environment for program development and execution
 - Some of them are simply user interfaces to system calls; others are considerably more complex
- File management Create, delete, copy, rename, print, dump, list, and generally manipulate files and directories

Status information

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- Some ask the system for info date, time, amount of available memory, disk space, number of users
- Others provide detailed performance, logging, and debugging information
- Typically, these programs format and print the output to the terminal or other output devices
- Some systems implement a registry used to store and retrieve configuration information

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