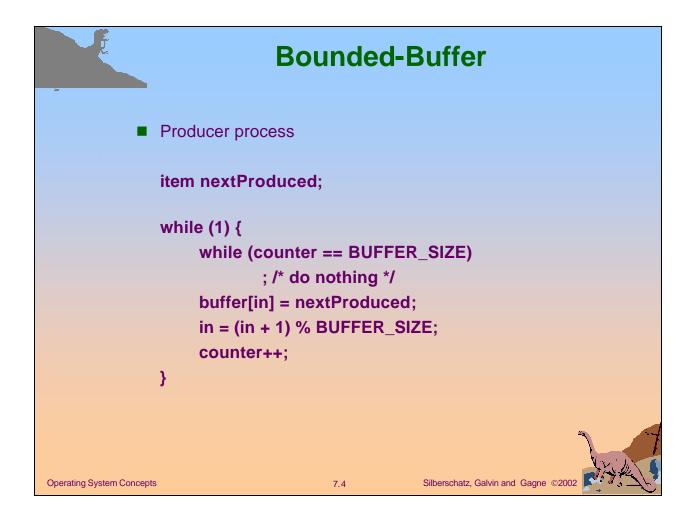
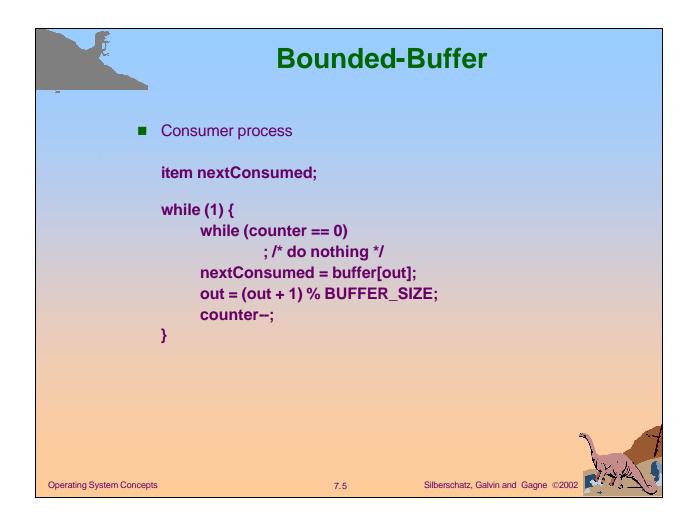
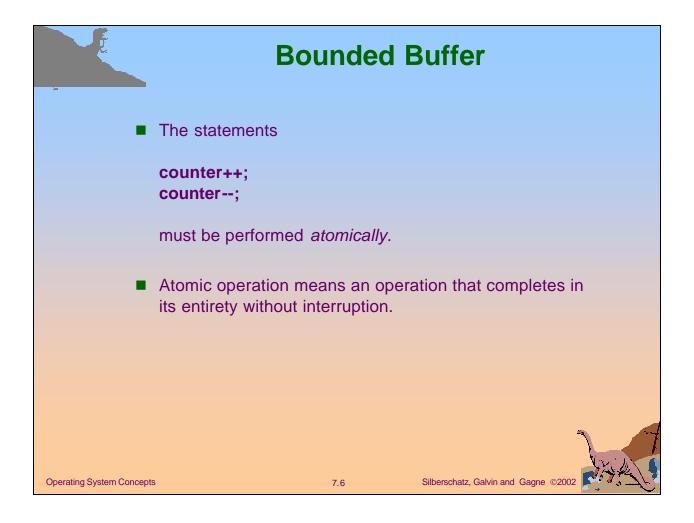
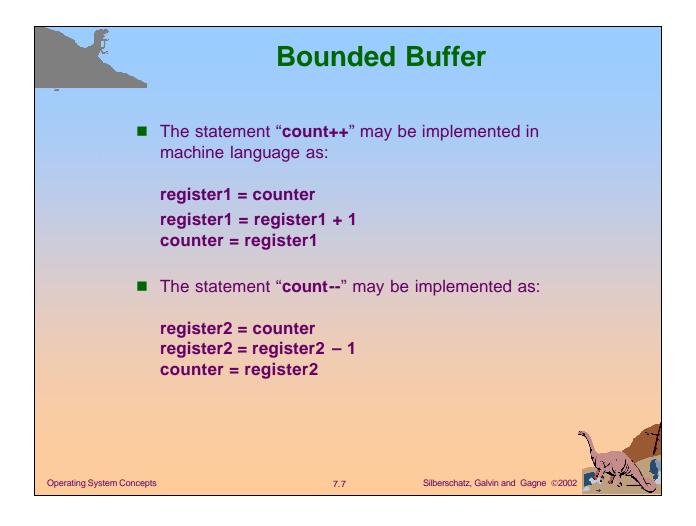


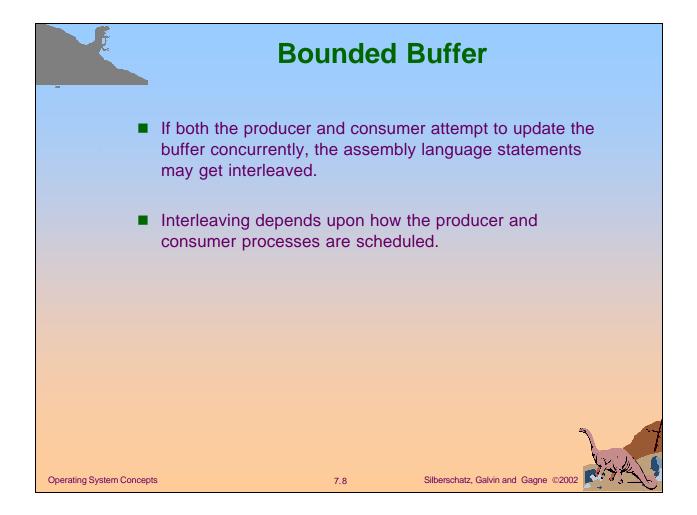
	Bounded-I	Buffer
■ Share	ed data	
	<pre>#define BUFFER_S typedef struct { } item; item buffer[BUFFEF int in = 0; int out = 0; int counter = 0;</pre>	
Operating System Concepts	7.3	Silberschatz, Galvin and Gagne ©2002

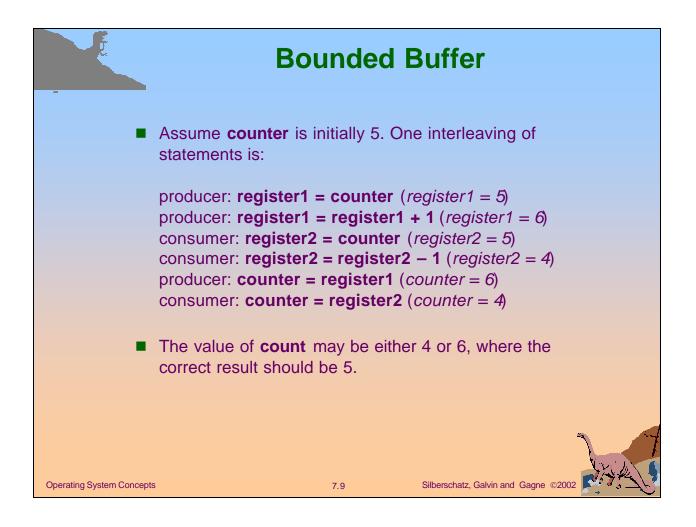


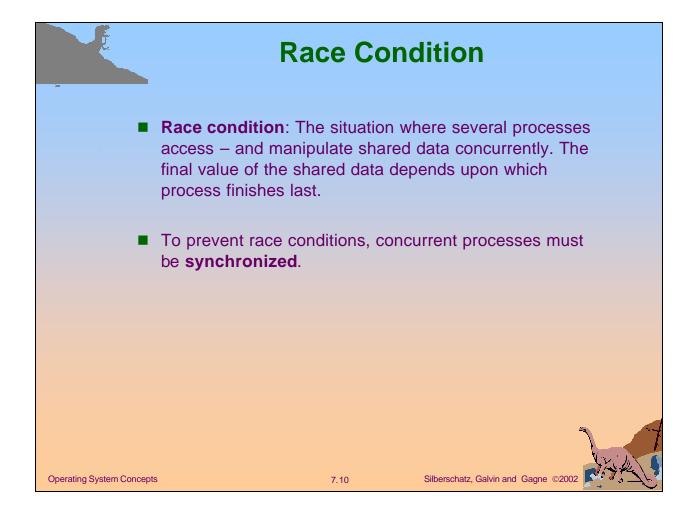


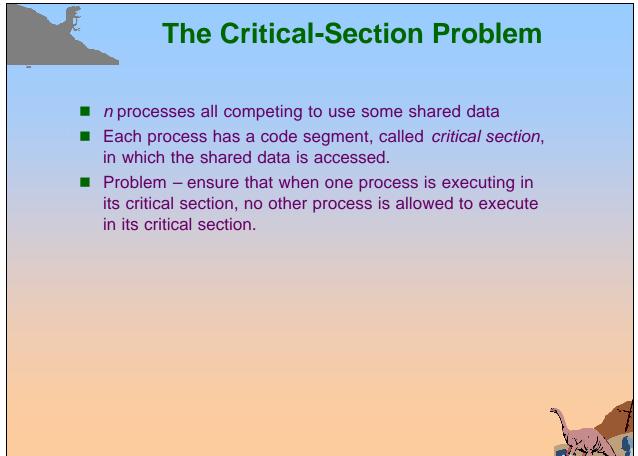












Operating System Concepts

7.11

Silberschatz, Galvin and Gagne ©2002

S	olution to Critical-Section Problem		
	Mutual Exclusion . If process P_i is executing in its critical section, then no other processes can be executing in their critical sections.		
	Progress . If no process is executing in its critical section and there exist some processes that wish to enter their critical section, then the selection of the processes that will enter the critical section next cannot be postponed indefinitely.		
	Bounded Waiting . A bound must exist on the number of times that other processes are allowed to enter their critical sections after a process has made a request to enter its critical section and before that request is granted.		
	 Assume that each process executes at a nonzero speed No assumption concerning relative speed of the <i>n</i> processes. 		
Operating System Concepts	7.12 Silberschatz, Galvin and Gagne ©2002		

