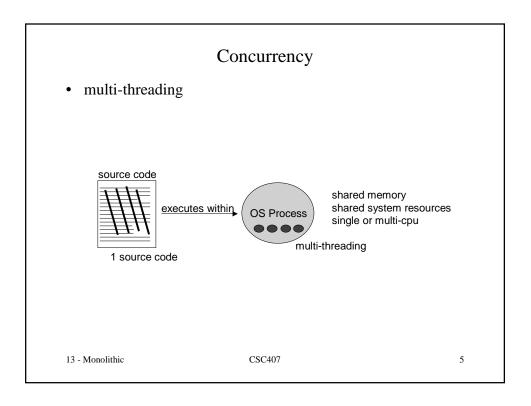
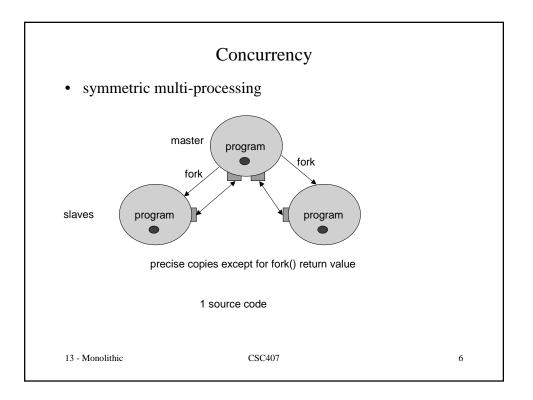
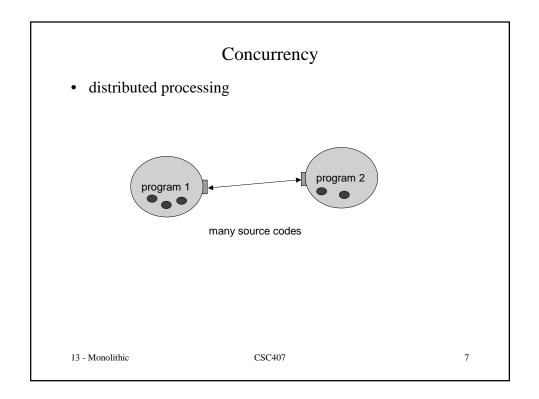
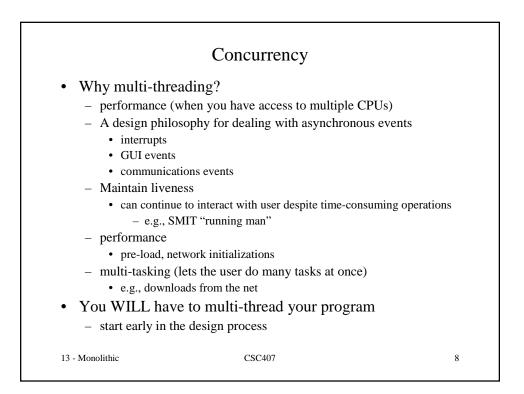


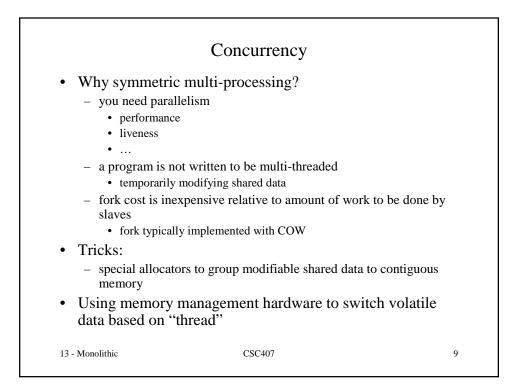
Characteristics	
 Usually written in a single programming language. Everything compiled and linked into a single (monolithic) application as large as 1 MLOC C++ as large as 100M loaded executable as large as 2G virtual memory May operate in both batch mode GUI mode Data load into memory write <i>all</i> back on explicit save No simultaneous data sharing May have concurrency multi-threading multi-processing (but only one executable) 	
13 - Monolithic CSC407 4	

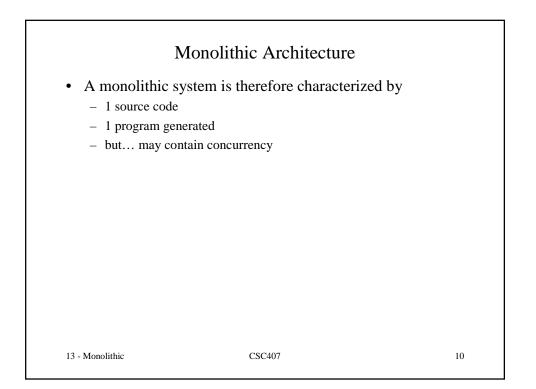


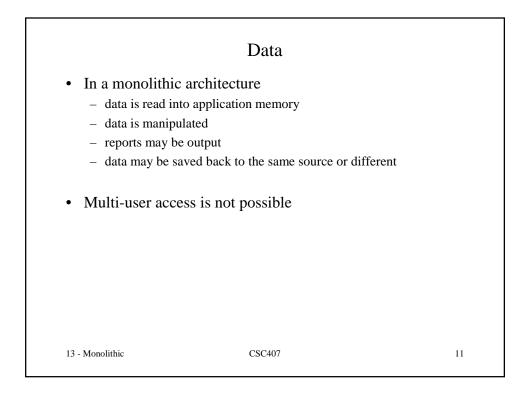


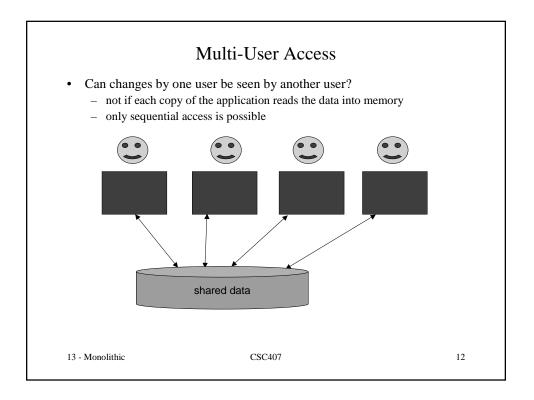


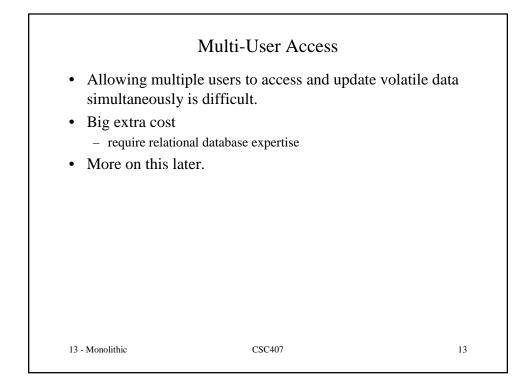












Advantages		
performance		
 accessing all dat 	a	
• disk is disk!		
• either		
 read dat 	a more directly from the disk via file system	
» hig	ghly optimized	
» ca	ching and pre-fetching built-in	
	a less directly from the disk via layers of intervening sof DBMS, OODBMS, distributed data server).	itware
 modifying data 		
 in-memory is 	massively quicker	
 caching is not 	an option for shared data systems	
 delays v 	while committing changes to a record	
 No IPC overhead 	d	
simplicity		
 less code to write 	e	
 fewer issues to d 	leal with	
 locking trans 	actions, integrity, performance, geographic distribution	

