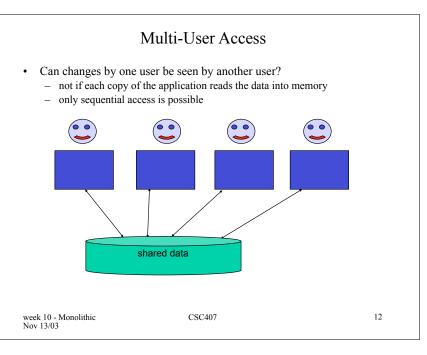


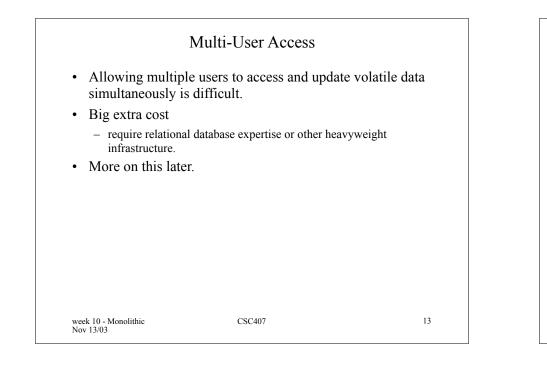


- In a monolithic architecture
 - data is read into application memory
 - data is manipulated
 - reports may be output
 - data may be saved back to the same source or different
- Multi-user access is not possible



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Disadvantages of monolithic systems

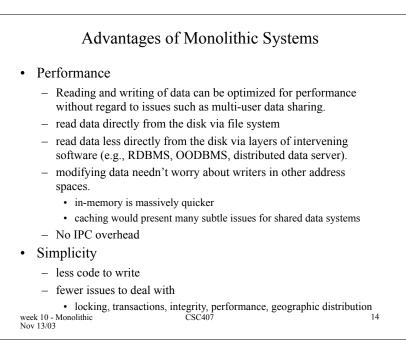
- Lack of support for shared access
 - forces one-at-a-time access
 - mitigate:
 - allowing datasets that merge multiple files
 - hybrid approaches
 - complex monolithic analysis software
 - simple data client/server update software
- Quantity of data
 - when quantity of data is too large to load into memory

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- too much time to load
- too much virtual memory used
- Depending on which is possible
 - sequential access (lock db or shadow db)
 - selective access

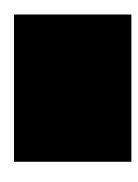
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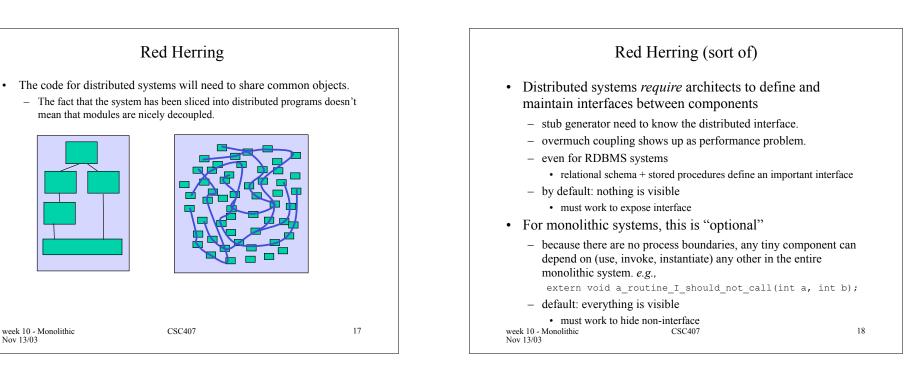


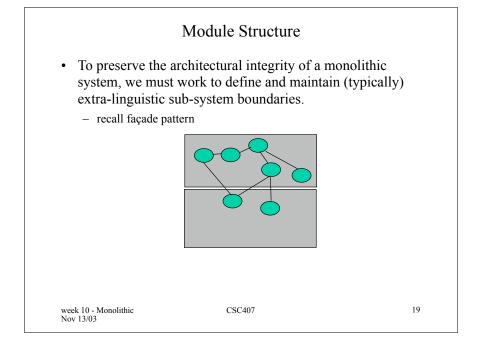
Red Herring

- Monolithic systems are "less modular"??
- monolithic exterior obscures potential modularity of isolated layers or other software structure.



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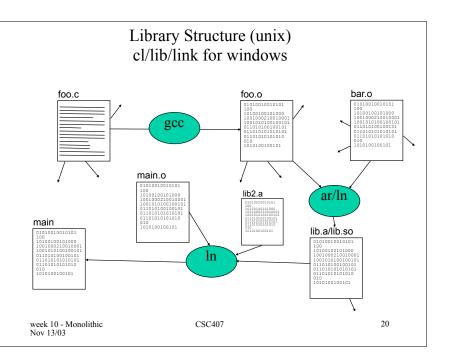
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Red Herring

mean that modules are nicely decoupled.

week 10 - Monolithic

Nov 13/03



Decide		
 how many librarie 	es to have	
 their names 		
 which subsystems 	go into which libraries	
 wise to align lib 	prary structure with a subsystem or layer	
 not necessary to 	o do so	
	libs organized by alphabetic split of obje	cts.
 rationale 		
• Why?		
 reduce compilation 	n dependencies	
	g a bunch of .c's and .h's and others can l	keep using the library
	nge any.h's exported beyond the library	
*	onfiguration management system	
- often mos	•	
	(libraries often pre-linked)	
 Shipping libraries 		
 Common librar Hopefully libraries are reus 	y supports many apps sable	
moperany noranes are rea		