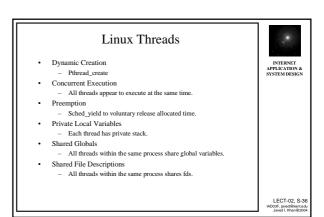
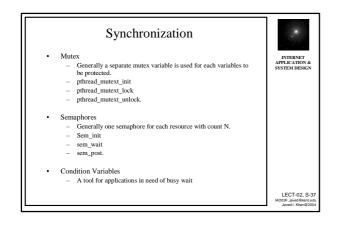
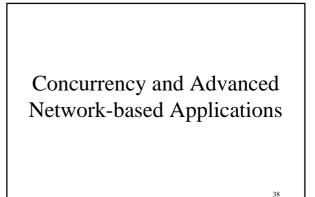
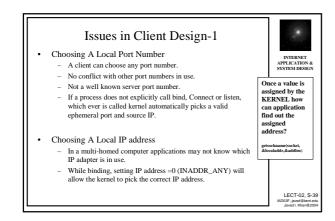
OS Mechanisms Posix 1003.1c

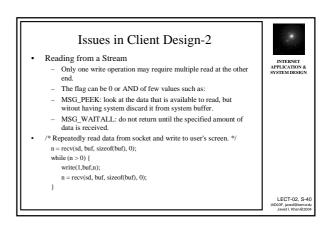
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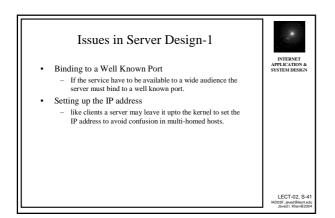


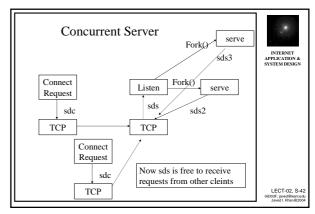




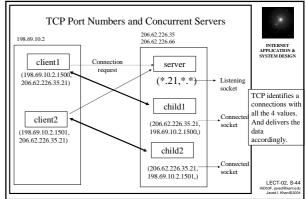


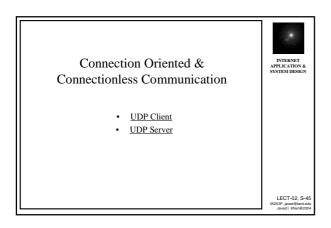


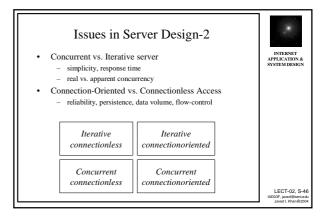


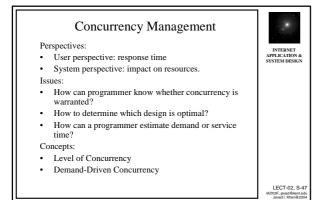


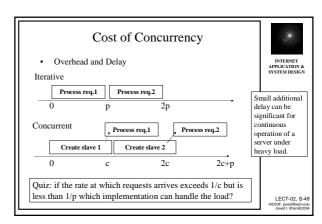


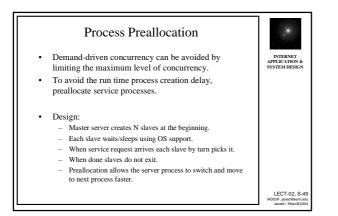


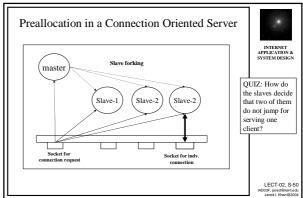


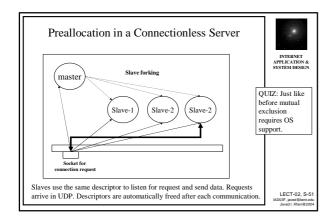


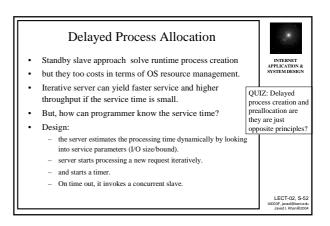


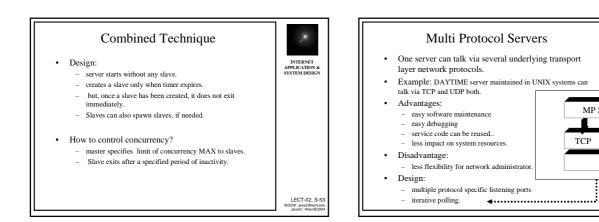


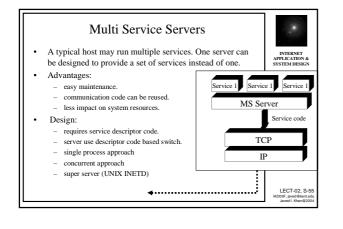


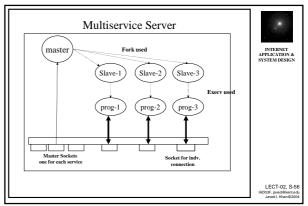












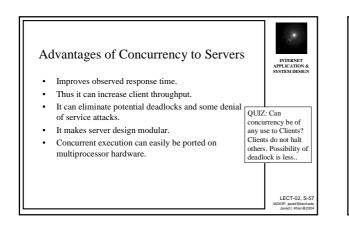
MP Server

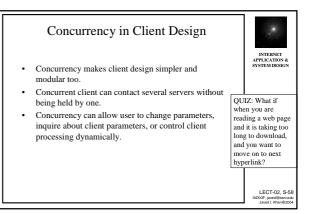
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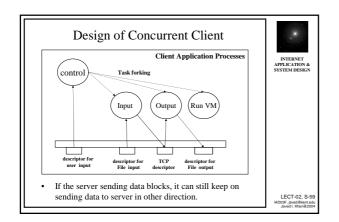
UDP

LECT-02, S-003F, javed@kent.i Javed I. Khan@21

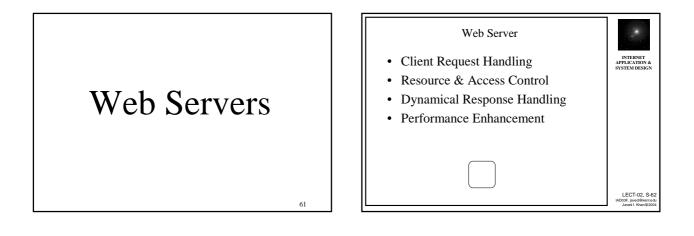
TCP

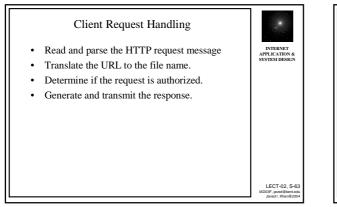


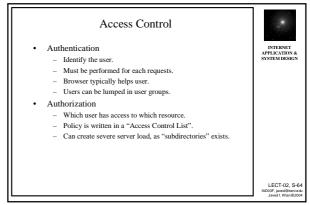


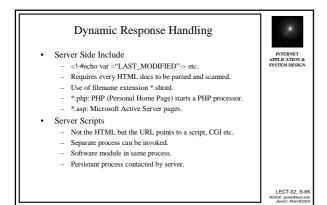


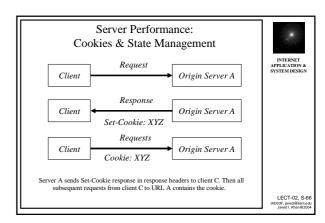
Cuse Stud	y: Concurrency in Apache	INTERNET APPLICATION 8
Directive	Definition (default)	SYSTEM DESIG?
StartServers	Initial number of child processes (5)	
MaxClients	Maximum number of child processes (256)	
MinSpareServers	Target Minimum number of idle children (5)	
MaxSpareServers	Target maximum number of idle children (10)	
MaxRequestsPerChild	Maximum number of requests per child (30)	
ListenBacklog	Maximum number of pending connections (511)	
SendBufferSize	Size of the TCP sendbuffer (OS default)	
maxKeepAliverequests	Maximum number of requests per connection (10)	
KeepAliveTimeout	Maximum idle time for connection (15 sec)	

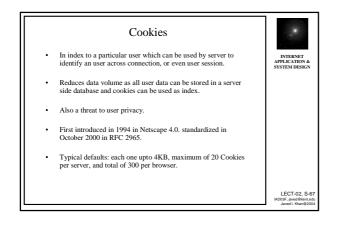


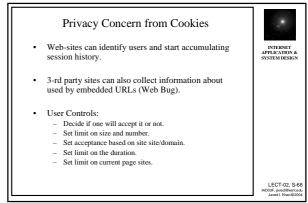


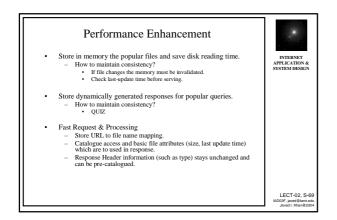


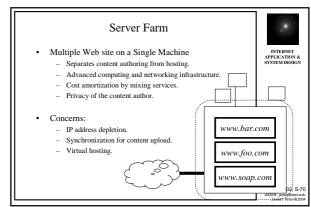


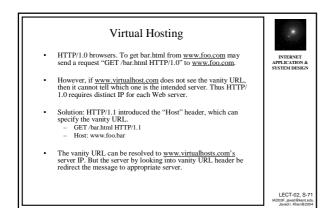


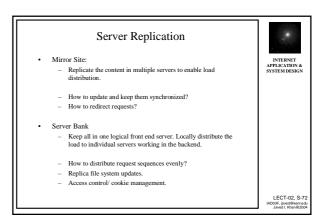


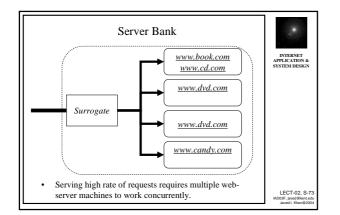


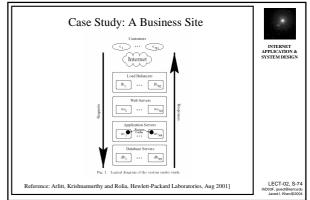


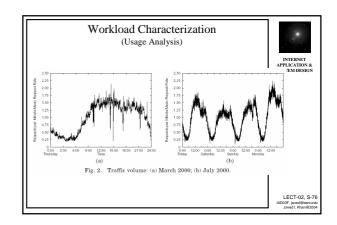












	Workload Characterization (Resource Types)				
	lown of Requests by				
Resource Type	March 2000 (%)	July 2000 (%)			
Dynamic	96.58	95.73			
HTML	2.58	3.67			
Image	0.37	0.16			
Text	0.03	0.01			
Other	0.44	0.43			
Total	100.00	100.00			
In this table, all requests cont are placed in the dynamic cat not web servers. And, of cou	egory. They can only be gen	erated by application servers	3,		
			LECT-02, IAD03F, javed 8kg Javed I. Khan		

		Classes o	of Requests	
Types		Cacheable	Noncacheable	Search
Examples		Product descriptions Photos	Adding items to shopping carts	Search by Keywords
S of	r D?	Static	Dynamic	Dynamic
Perso	nality	No	Yes	Yes
%	March	73.30	15.89	10.81
	July	70.53	17.94	11.94

Classes of Requests (continue)		
Table II. Relative Mean CPU Demand	s for Request Classes	
Request Class Name	Ratio of CPU Demand	
Cacheable (response can be cached)	1 (cache hit)	
Cacheable (response can be cached) Noncacheable (response cannot be cached)	500 (cache miss) 100	
Search	40	
Search	4	

