## CS 4/54201 Computer

**Communication** Network

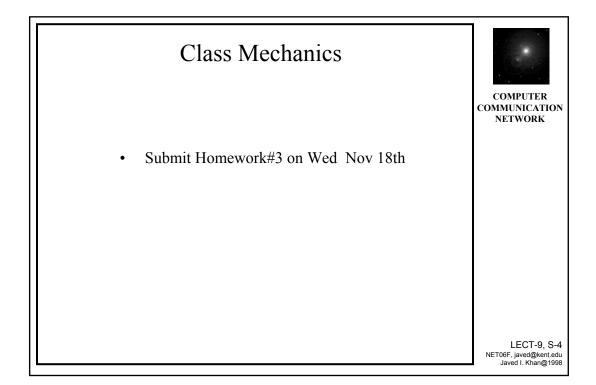
## Kent State University

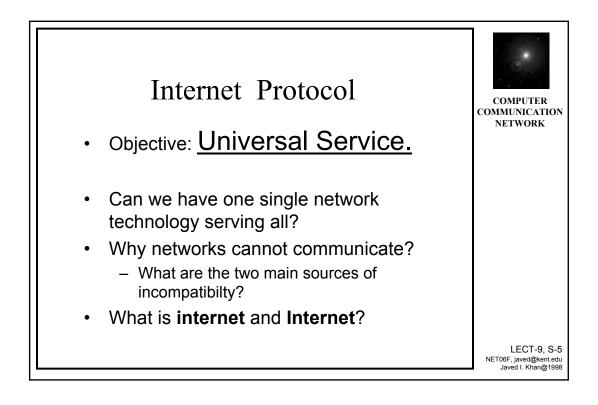
Dept. of Computer Science

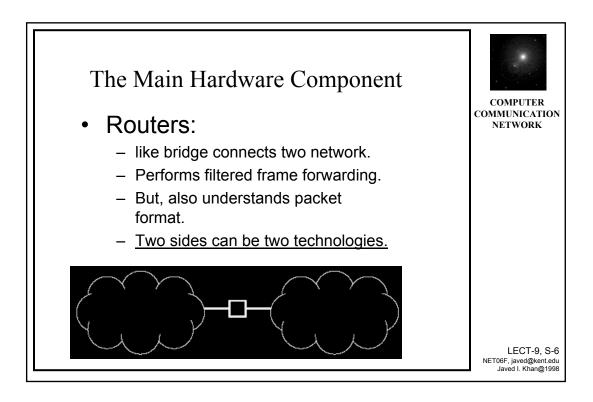
www.mcs.kent.edu/~javed/class-NET06F/

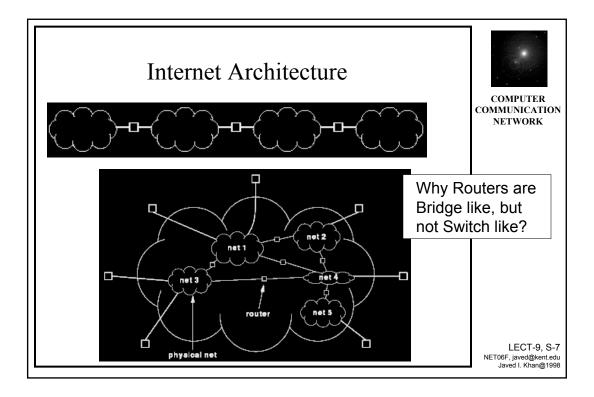
A Course on Networking and Computer Communication

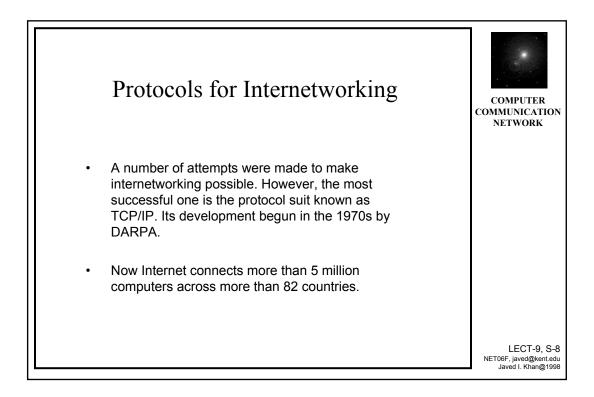


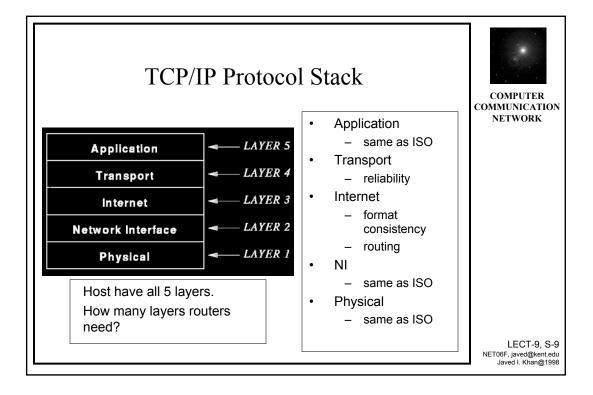


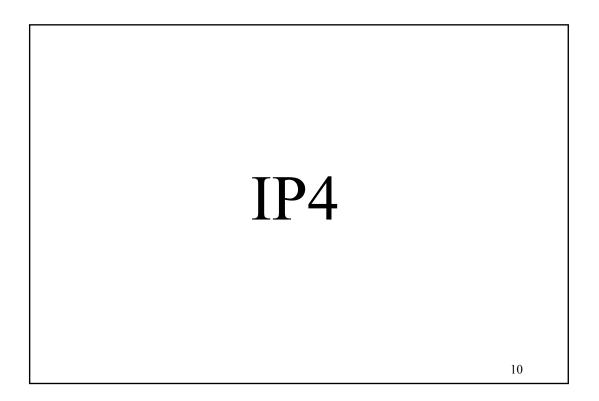


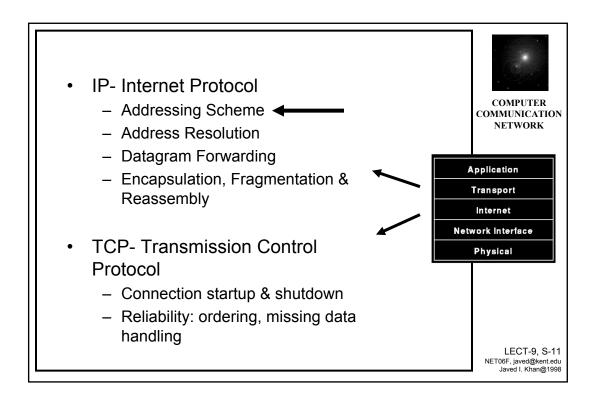


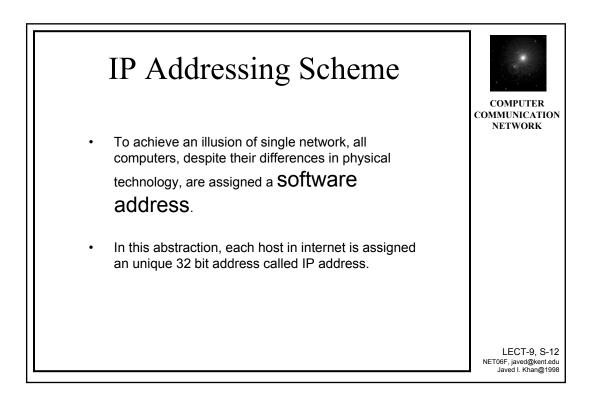












IP Addressing Format	COMPUTER COMMUNICATION NETWORK	
IP address = Network number + host number	If n bits are for network than how many networks can be there? How many hosts can be in those networks?	
Network number Host number		
32 bits	LECT-9, S-13 NET06F, javed@kent.edu Javed I. Khan@1998	

	IP Addressing Classes	COMPUTER
•	IP divides the addresses into 5 classes to accommodate networks of varying sizes.	COMMUNICATION NETWORK
bits	01234 8 16 24 31	
Class A	0 prefix suffix	
Class B	1 0 prefix suffix	
Class C	1 1 0 prefix suffix	
Class D	1 1 1 0 multicast address	
Class E	1 1 1 1 reserved for future use	
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Dotted Decima	COMPUTER COMMUNICATION NETWORK	
32-bit Binary Number	Equivalent Dotted Decimal	
10000001 00110100 00000110 00000000	129.52.6.0	
11000000 00000101 00110000 00000011	192.5.48.3	
00001010 00000010 00000000 00100101	10.2.0.37	
10000000 00001010 00000010 00000011	128.10.2.3	
10000000 10000000 11111111 00000000	128.128.255.0	
ClassRange ofA0 throughB128 throughC192 throughD224 throughE240 through	ugh 127 ugh 191 ugh 223 ugh 239	LECT-9, S-15 NET06F, javed@kent.edu Javed I. Khan@1998

