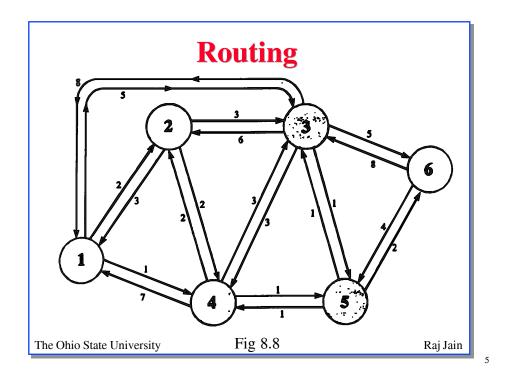
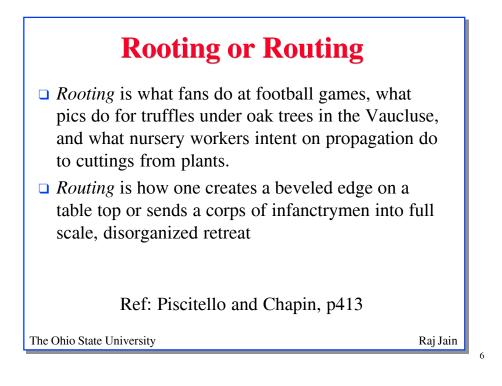


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Transport vs Network Layer								
		Network						
Transport		Datagram	VC					
	Connectionless	UDP over	UDP over					
		IP	IP+ATM					
	Connection-	TCP over	AAL over ATM					
	oriented	IP						
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Routeing or Routing

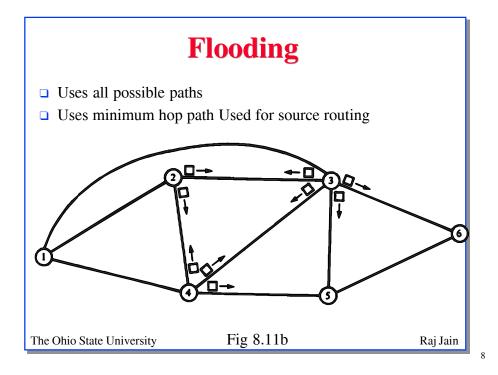
- **Routeing:** British
- □ Routing: American
- Since Oxford English Dictionary is much heavier than any other dictionary of American English, British English generally prevalis in the documents produced by ISO and CCITT; wherefore, most of the international standards for routing standards use the routeing spelling.

Ref: Piscitello and Chapin, p413

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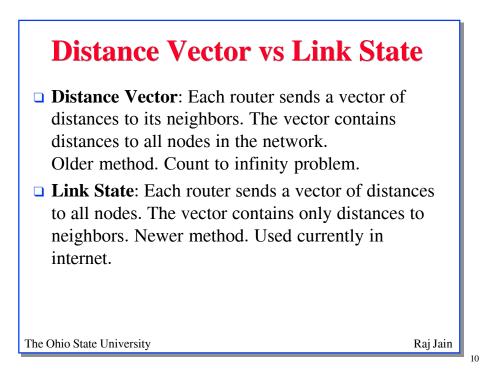


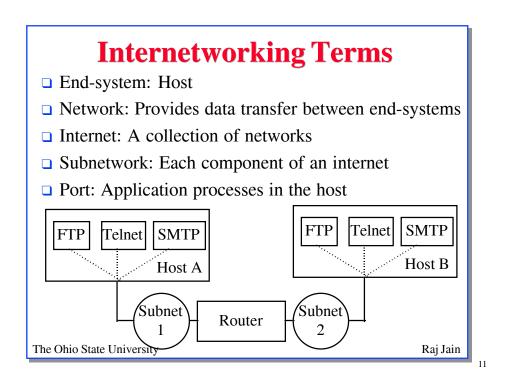


- Performance criterion: *Hops*, Distance, *Speed*, Delay, Cost
- **Decision time**: *Packet*, session
- **Decision place**: *Distributed*, centralized, Source
- Network information source: None, local, adjacent nodes, nodes along route, all nodes
- Routing strategy: Fixed, *adaptive*, random, flooding
- Adaptive routing update time: Continuous, periodic, topology change, major load change The Ohio State University

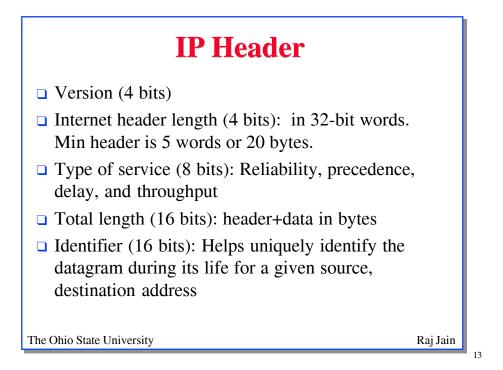
Raj Jain

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IP H	eader	1		2				3	
173	4 5 6 7	89012345	678	901	23	45	<u>678</u>	90	1
etsign	IHL	Type of service	Total length						
ldentifier		Flags		Ftagr	nezi	offset			
Time to live Protocal			Header checksum						
		Source a	dd ress						
		De slimation	address						
		Options +	Padding			3	•		
		Dat							



IP Header				
Flags (3 bits):	More flag - used for fragmentation No-fragmentation Reserved			
□ Fragment offse	t (13 bits): In units of 8 bytes			
□ Time to live (8	bits): Specified in router hops			
Protocol (8 bits data): Next level protocol to receive the			
Header checksu all 16-bit word	um (16 bits): 1's complement sum of s in the header			
□ Source Address	s (32 bits)			
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