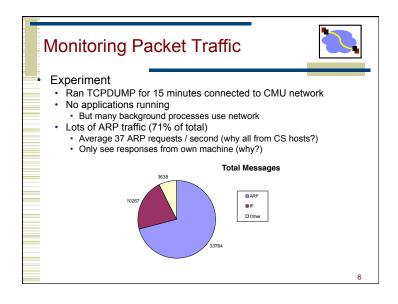
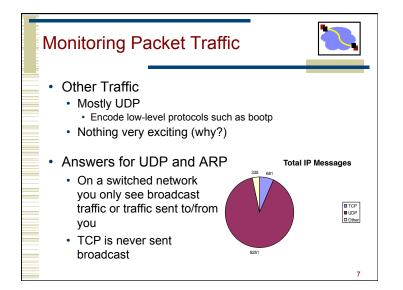


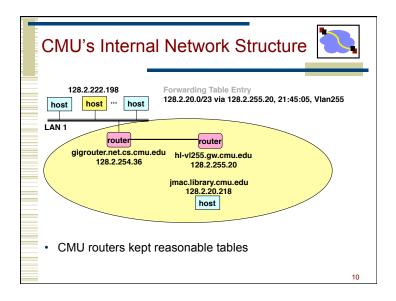
ARP Cache Ex	ample	
	ommand "arp -a"	0003
Internet Address	Physical Address	Type
128.2.20.218	00-b0-8e-83-df-50	dynamic
128.2.102.129	00-b0-8e-83-df-50	dynamic
128.2.194.66	00-02-b3-8a-35-bf	dynamic
128.2.198.34	00-06-5b-f3-5f-42	dynamic
128.2.203.3	00-90-27-3c-41-11	dynamic
128.2.203.61	08-00-20-a6-ba-2b	dynamic
128.2.205.192	00-60-08-1e-9b-fd	dynamic
128.2.206.125	00-d0-b7-c5-b3-f3	dynamic
128.2.206.139	00-a0-c9-98-2c-46	dynamic
128.2.222.180	08-00-20-a6-ba-c3	dynamic
128.2.242.182	08-00-20-a7-19-73	dynamic
128.2.254.36	00-b0-8e-83-df-50	dynamic
		-
		-
		5

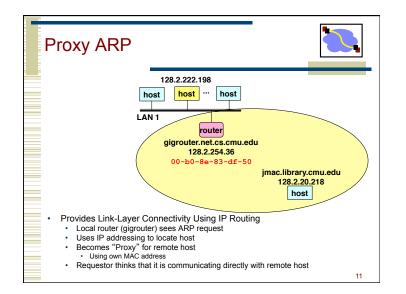


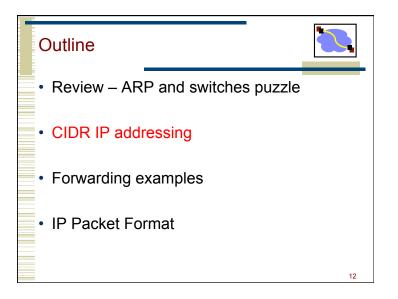


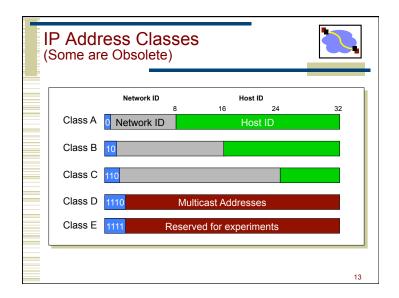
ARP Cache E	xample	
	Command "arp -a" 2.198 on Interface 0x100 Physical Address 00-b0-8e-83-df-50 00-b0-8e-83-df-50 00-02-b3-8a-35-bf 00-06-5b-f3-5f-42 00-90-27-3c-41-11 08-00-20-a6-ba-2b 00-60-08-1e-9b-fd 00-a0-b7-c5-b3-f3 00-a0-99-8c-2c-46 08-00-20-a6-ba-c3 08-00-20-a7-19-73 00-b0-8e-83-df-50	0003 Type dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic
		8

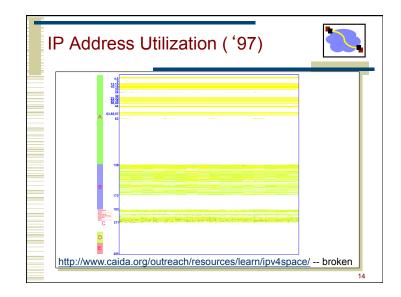
ARP Cache Su	ırprise	
How come 3 n address?	nachines have the	e same MAC
Interface: 128.2.222. Internet Address 128.2.02.18 128.2.102.129 128.2.194.66 128.2.198.34 128.2.203.61 128.2.205.192 128.2.205.192 128.2.206.125 128.2.222.180 128.2.222.180 128.2.224.36	198 on Interface 0x100 Physical Address 00-b0-8e-83-df-50 00-b0-8e-83-df-50 00-02-b3-8a-35-bf 00-06-5b-f3-5f-42 00-90-27-3c-41-11 08-00-20-a6-ba-2b 00-60-08-1e-9b-fd 00-d0-b7-c5-b3-f3 00-a0-c9-98-2c-46 08-00-20-a6-ba-c3 08-00-20-a7-19-73 00-b0-8e-83-df-50	0003 Type dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic dynamic
		9

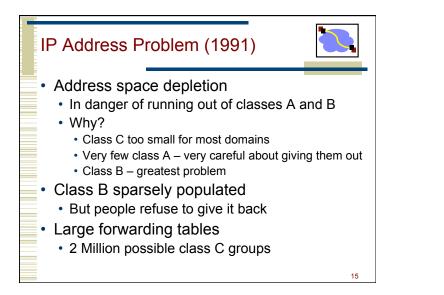


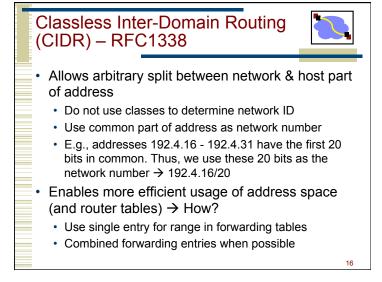


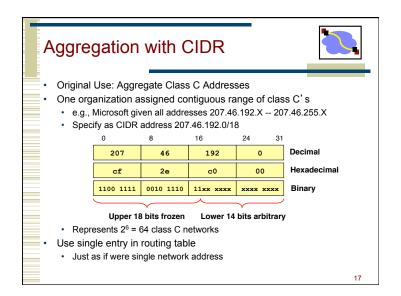


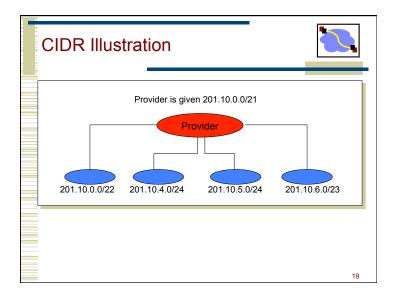


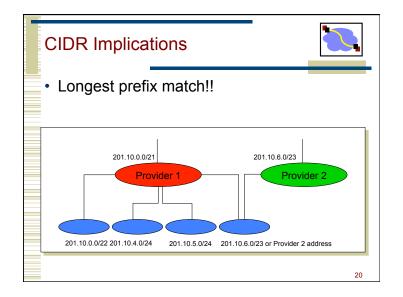




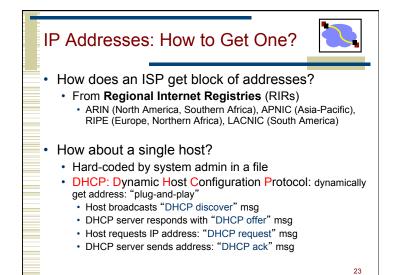


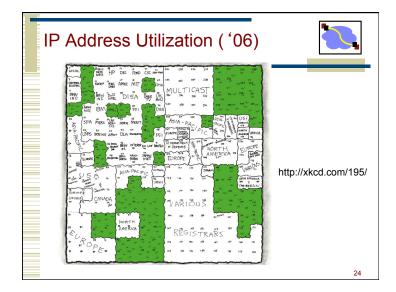


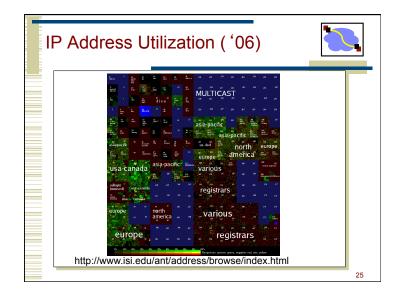




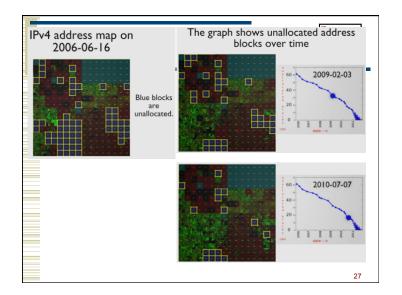
IP Addresses: How to Get One?				
	network portion):			
Get allo	cated portion of ISP's address space:			
ISP's block	<u>11001000 00010111 0001</u> 0000 00000000 200.23.16.0/20			
Organization 0	<u>11001000 00010111 0001000</u> 00000000 200.23.16.0/23			
Organization 1	<u>11001000 00010111 0001001</u> 0 00000000 200.23.18.0/23			
Organization 2	<u>11001000 00010111 0001010</u> 0 00000000 200.23.20.0/23			
Organization 7	<u>11001000 00010111 0001111</u> 0 00000000 200.23.30.0/23			
	22			

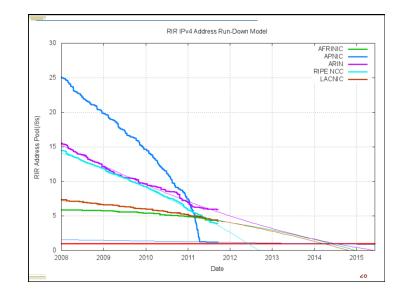




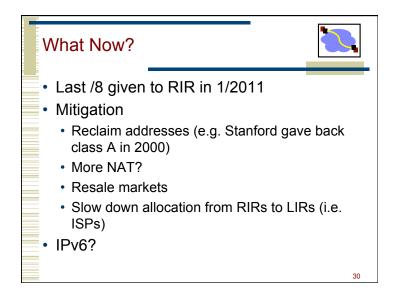


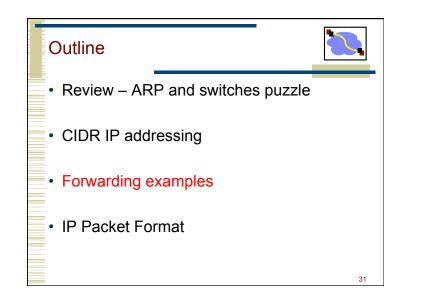












Η	lost Routinę	g Table Ex	ample		
	Destination	Gateway	Genmask	Iface	
	128.2.209.100	0.0.0.0	255.255.255.255	eth0	
	128.2.0.0	0.0.0.0	255.255.0.0	eth0	
	127.0.0.0	0.0.0.0	255.0.0.0	10	
_	0.0.0.0	128.2.254.36	0.0.0.0	eth0	
	 From "netstat -rn" Host 128.2.209.100 when plugged into CS ethernet Dest 128.2.209.100 → routing to same machine Dest 128.2.0.0 → other hosts on same ethernet Dest 127.0.0.0 → special loopback address Dest 0.0.0.0 → default route to rest of Internet Main CS router: gigrouter.net.cs.cmu.edu (128.2.254.36) 				
				32	

