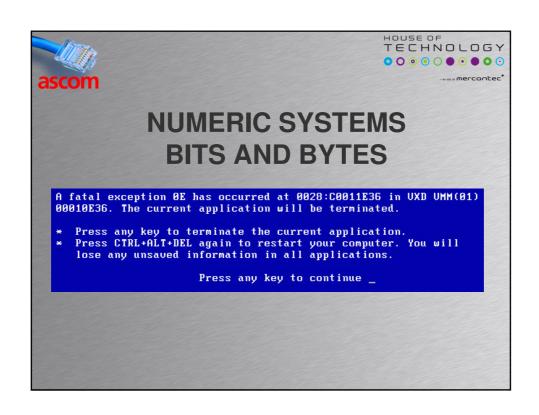


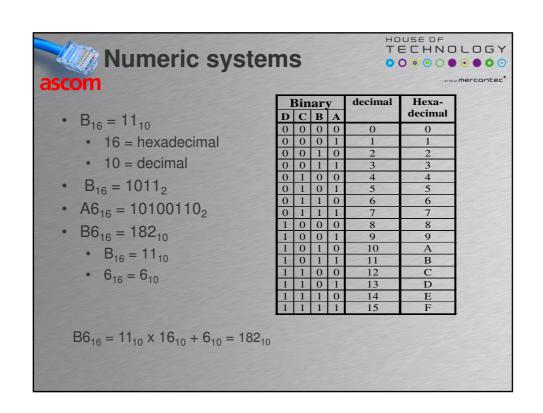


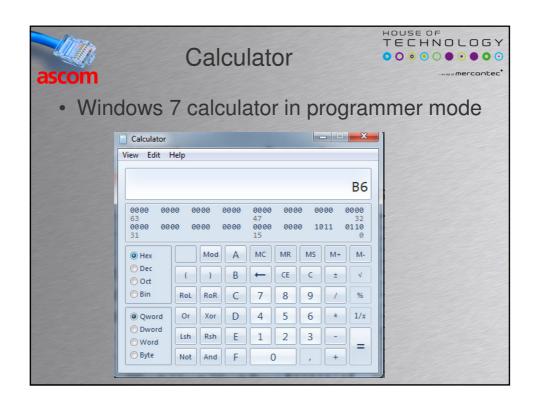
Basic Networking

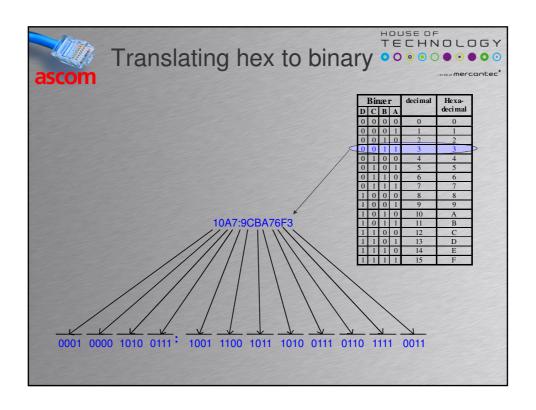


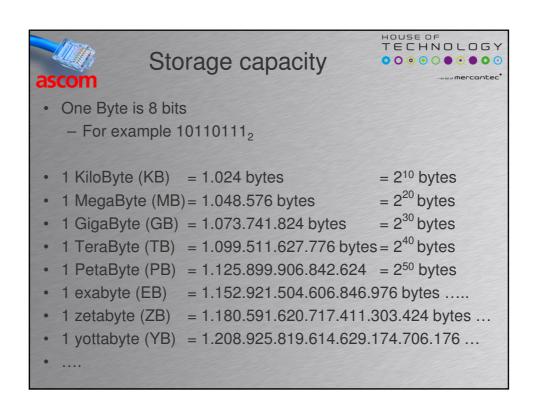
- · Numeric systems and bits and Bytes.
- Ethernet (MAC Address etc.).
- The IP Address/Subnet mask.
- ARP: Binding the MAC and IP address together.
- · Switching.
- · VLAN.
- · Default Gateway and basic Routing.
- · Exercises during session:
 - Find your own MAC and IP address.
 - Commands: ipconfig, ping and traceroute.
- Virtual Learning Environment task:
 - Configuring static IP addresses, subnet masks and default gateways.

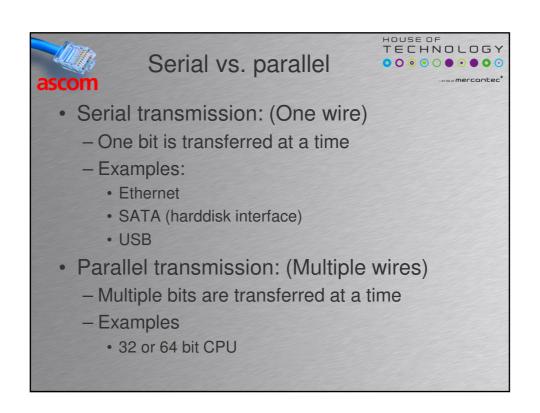


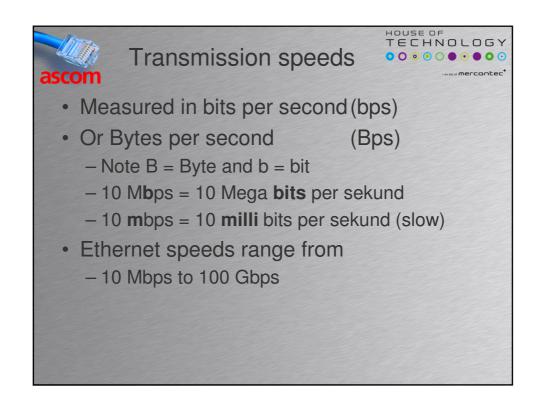






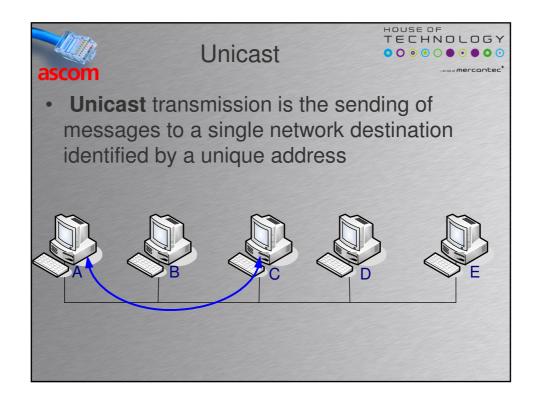


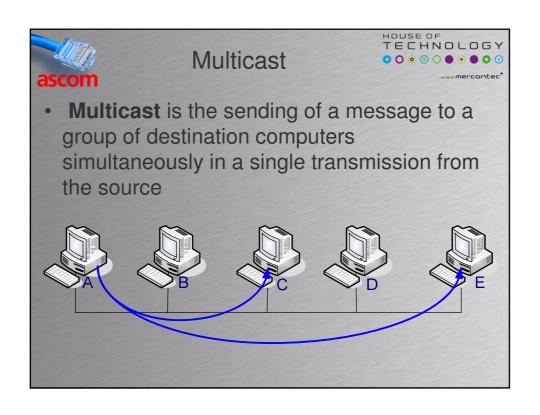


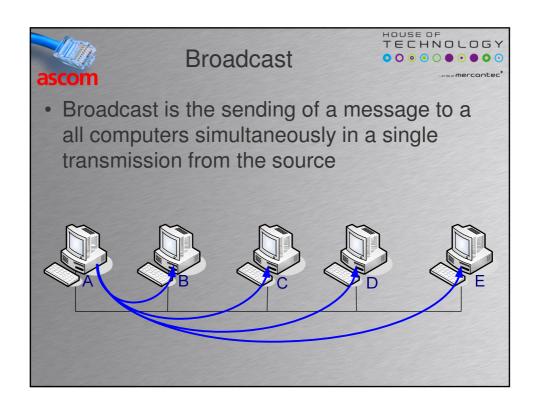


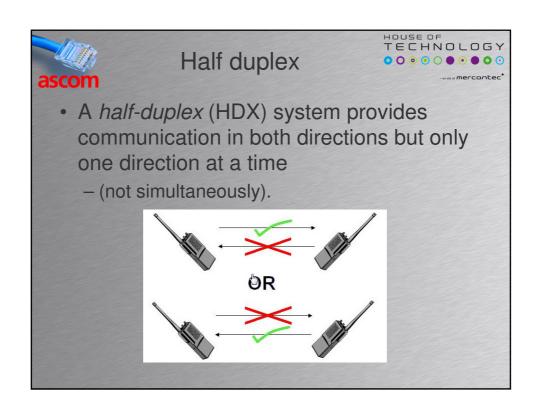


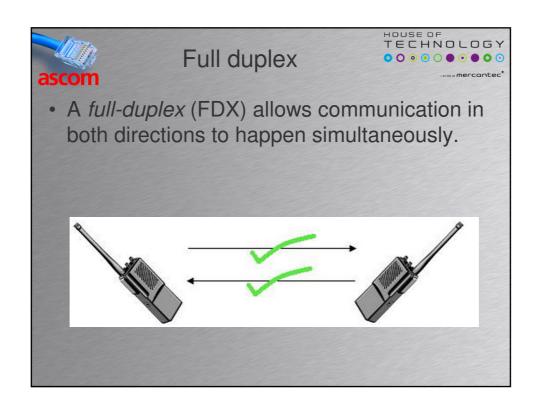


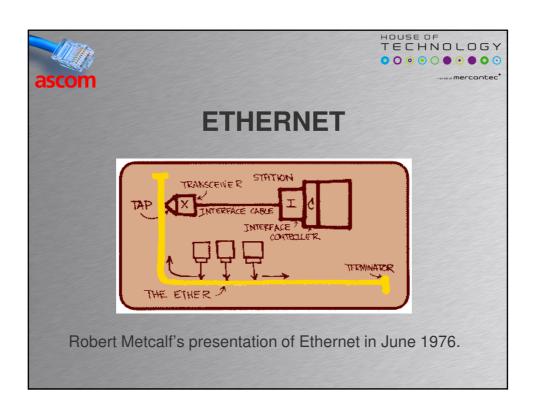


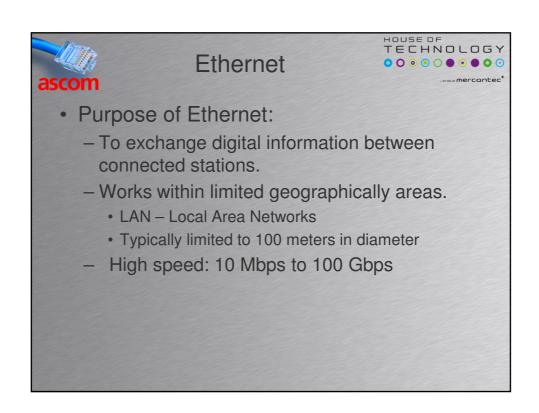


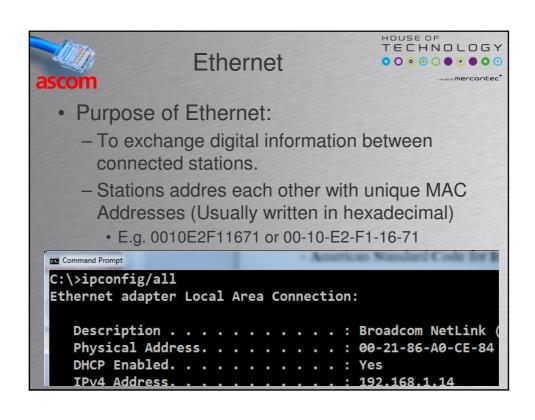


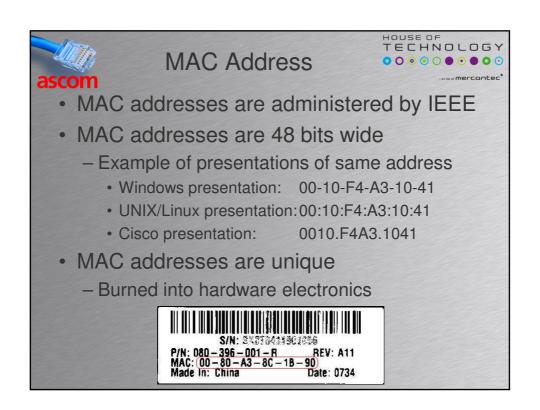


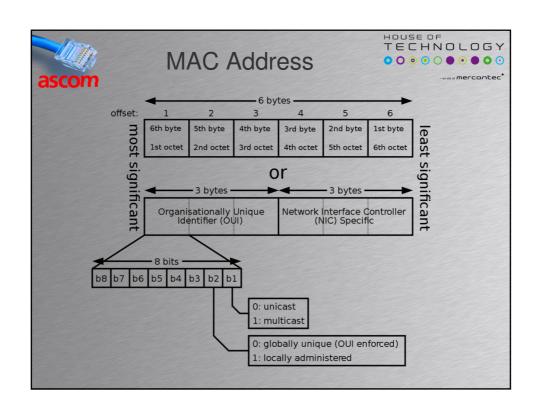




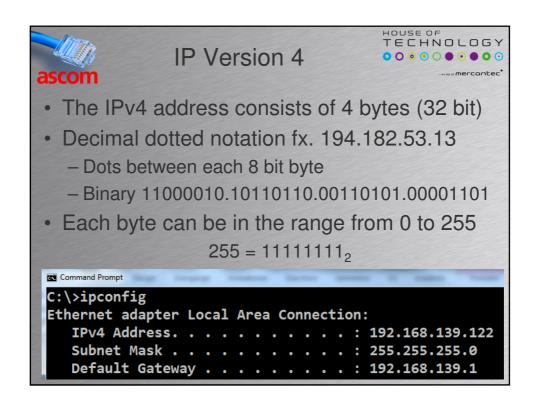


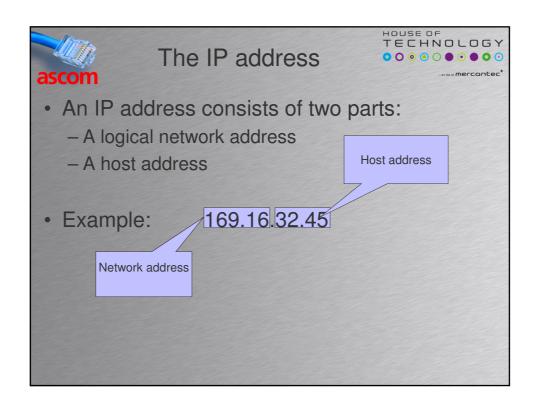


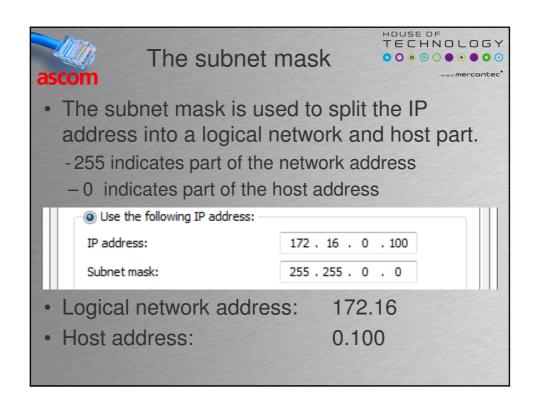


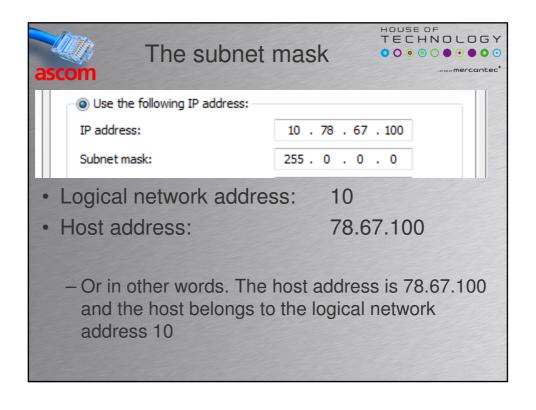


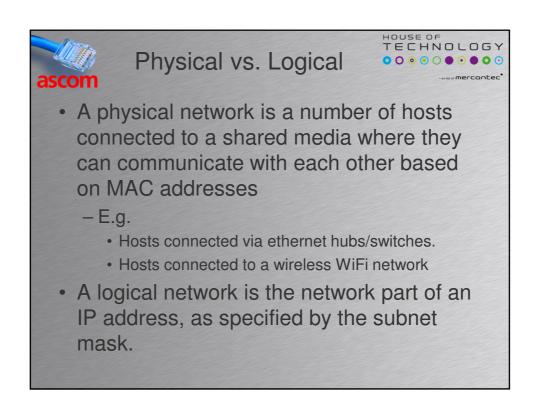


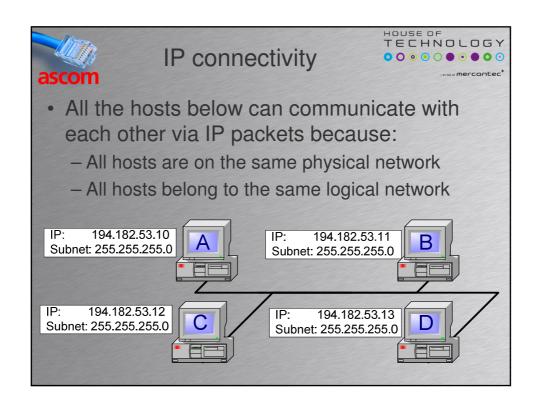


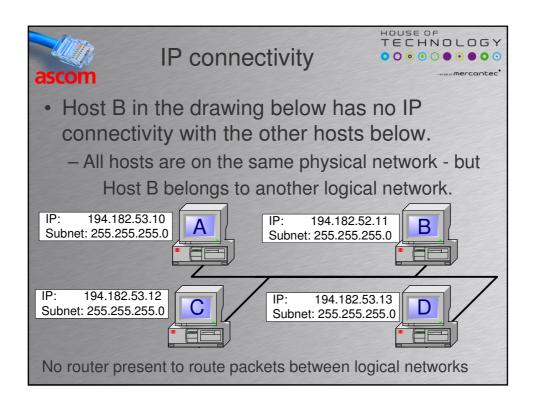


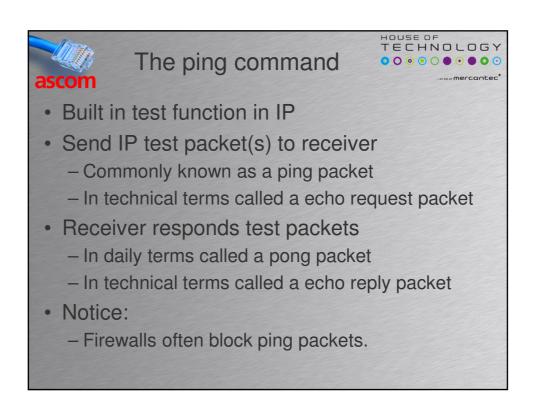












```
The ping command

**Command Prompt*

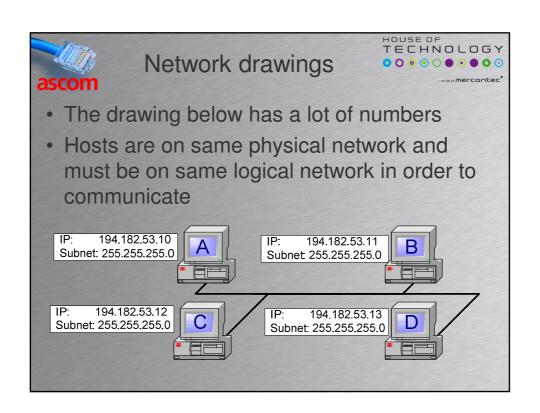
C:\temp>ping 194.182.53.10

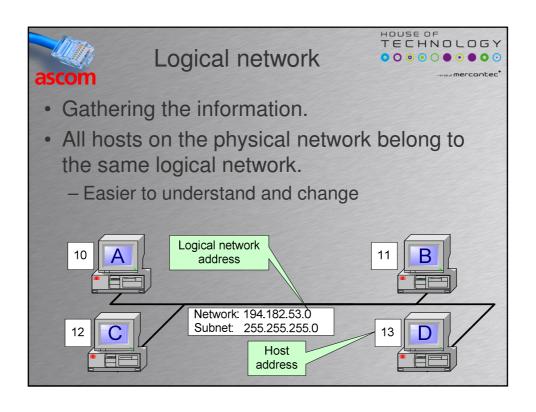
Pinging 194.182.53.10 with 32 bytes of data:
Reply from 194.182.53.10: bytes=32 time<1ms TTL=128

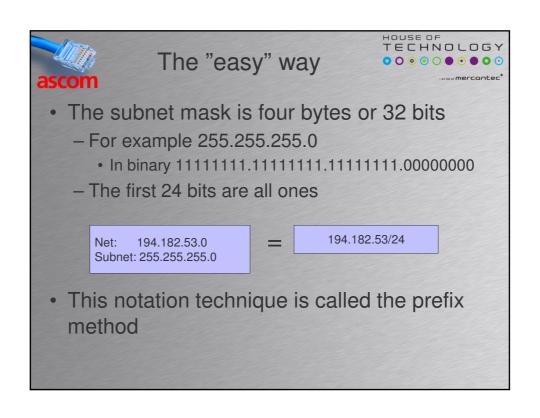
Ping statistics for 194.182.53.10:

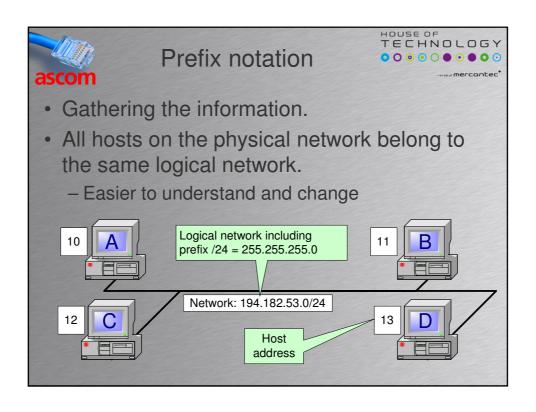
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

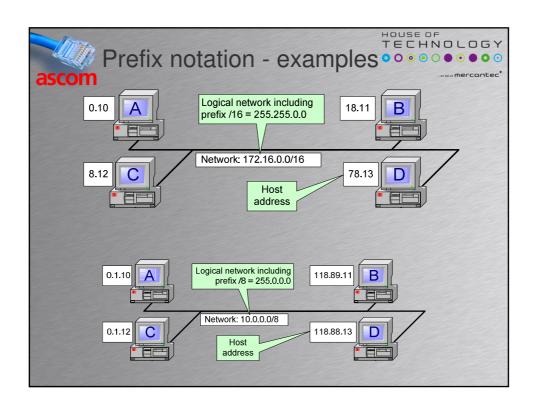
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

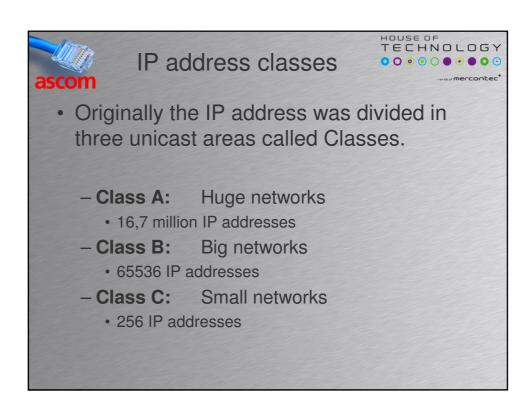


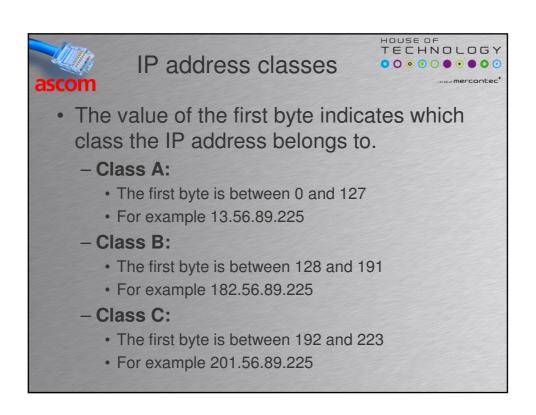


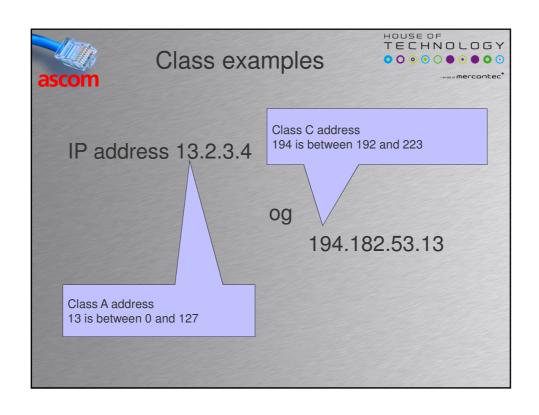


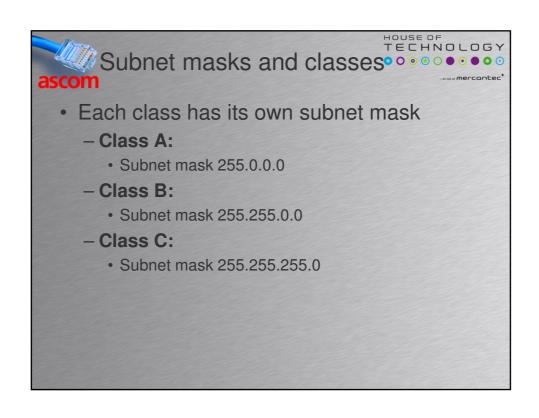












ascom		IP Classes		HOUSE OF TECHNOLOGY	
Class	Purpose	First byte between	Subnet mask	Prefix	Max hosts
А	Unicast	0 and 127	255.0.0.0	/8	254
В	Unicast	128 and 191	255.255.0.0	/16	65.534
С	Unicast	192 and 223	255.255.255.0	/24	16.777.214
				/24	10.777.214
Class		Additional C		Prefix	Max hosts
		Additional c	lasses		
Class	Purpose	Additional o	Subnet mask	Prefix	

