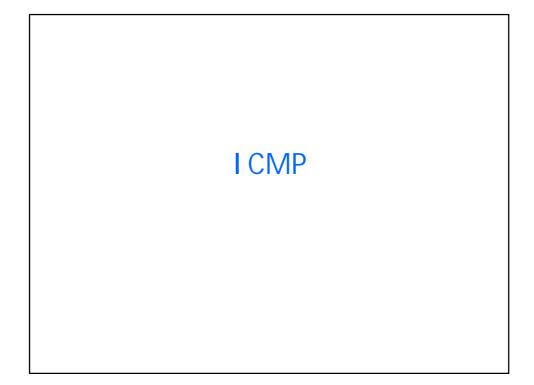
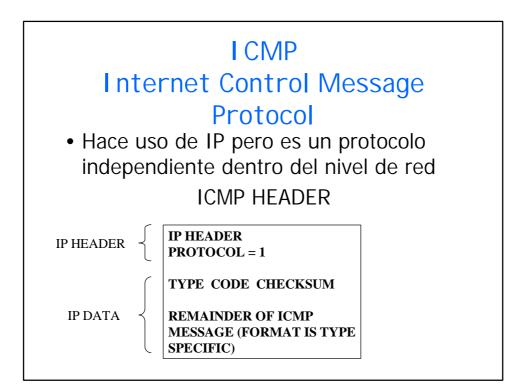
Transparencias de Redes de Ordenadores Tema 9 Nivel de Red: IP 3^a Parte - ICMP Uploaded by IngTeleco http://ingteleco.iespana.es ingtelecoweb@hotmail.com La dirección URL puede sufrir modificaciones en el futuro. Si no funciona contacta por email

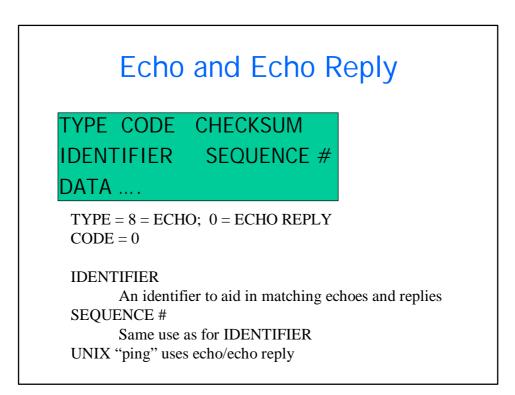


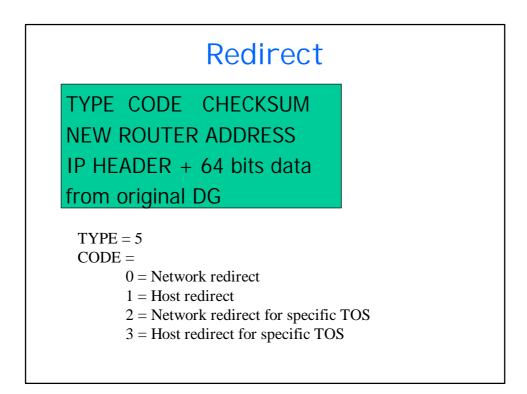


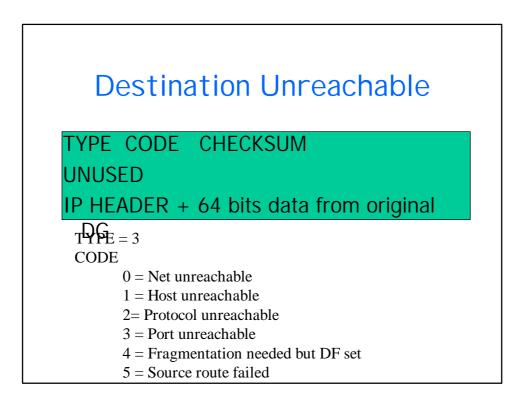
I CMP Types

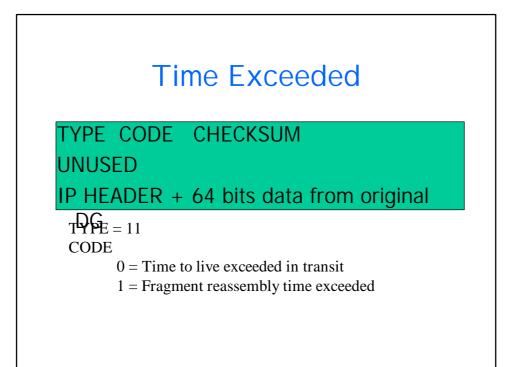
- Echo Echo Reply (ping)
- Redirect (use other router)
- Destination Unreachable (prot, port, host)
- Time Exceeded
- Source Quench
- Checksum Failed
- Reassembly Failed
- Cannot Fragment

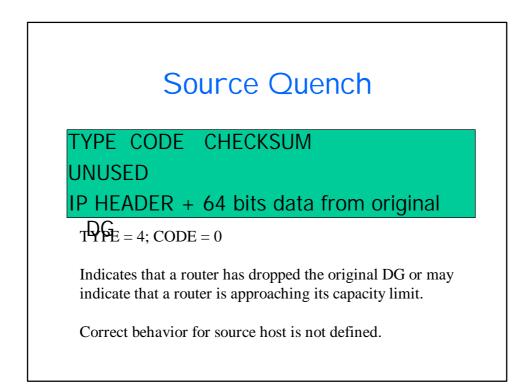
@





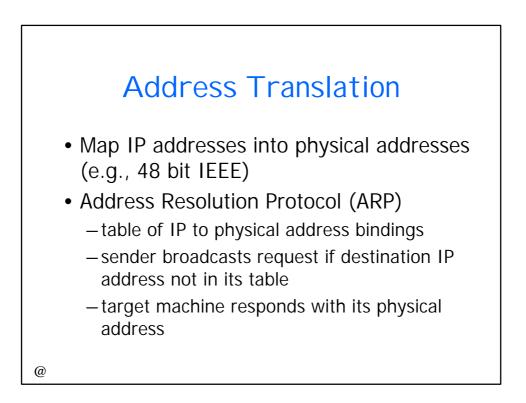






Traceroute

- UNIX utility displays router used to get to a specified Internet Host
- Operation
 - router sends ICMP Time Exceeded message to source if TTL is decremented to 0
 - if TTL starts at 5, source host will receive Time Exceeded message from router that is 5 hopes away
- Traceroute sends a series of probes with different TTL values... and records the source address of the ICMP Time Exceeded message for each
- Probes are formatted to that the destination host will send an ICMP Port Unreachable



How do Hosts/Routers Build/Maintain ARP Caches

- Table entries discarded if not refreshed (~10 minutes)
- Update your table with source when you are the target
- Update your table if you already have an entry and see info pass by on net
- Do not add new table entry based on info that passes on net