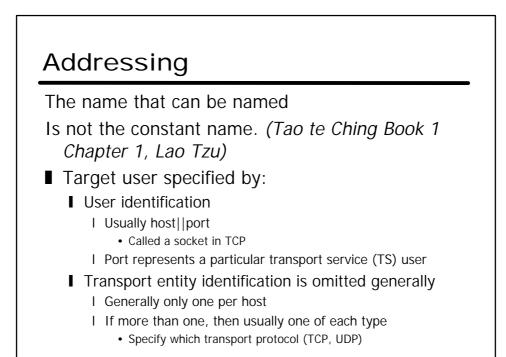


Reliable Sequencing Network Service

- Assume arbitrary length message
- Assume virtually 100% reliable delivery by network service
 - I e.g. reliable packet switched network using X.25
 - I e.g. frame relay using LAPF control protocol
 - e.g. IEEE 802.3 using connection oriented LLC service
- Transport service is end to end protocol between two systems on same network
 - I note that this is a simplification of the reality of internetworking

Issues in a Simple Transport Protocol

- Addressing
- Multiplexing
- Flow Control
- Connection establishment and termination



Host address

- Host is
 - I An attached network device
 - I In an internet, it has a global internet address
 - Network number

Finding Addresses

- Four methods
 - I Know address ahead of time
 - I e.g. collecting network device statistics
 - Well known addresses (fixed in advance)
 - Name server
 - I using the Domain Naming System
 - I communicated with using UDP to find IP address from internet name
 - I name server address is fixed in advance!
 - Sending process request to a newly created process
 - I for use in multi-process application on the network