

Agenda

- Basics of socket programming - Use of port numbers
 - Data structures for socket addressing
- TCP communication through socket programming
- UDP communication through socket programming



Quick question

• If a Web browser is engaged in a TCP communication with a Web server, what is the pair of sockets that can be used to represent their TCP connection?







/* 32-bit IPv4 addresses */

sa family t sin family; /* AF_INET */ in_port_t sin_port; /* TCP/UDP Port num */ struct in addr sin addr; /* IPv4 address (above) */

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accept()

int accept(int sockfd, struct sockaddr
*cliaddr, socklen_t *addrlen);
Return next completed connection.

- *sockfd* is socket descriptor from socket ()
- cliaddr and addrlen return protocol address from client
- returns brand new descriptor, created by OS

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