**Socket Programming Syntax**

* int socket(int domain, int type, int protocol);
* domain = AF\_INET, AF\_INET6
* type = SOCK\_STREAM, SOCK\_DGRAM
* protocol = 0(preferred), IPPROTO\_TCP, IPPROTO\_UDP, IPPROTO\_ICMP
* int bind(int socket, struct sockaddr \*name, int namelen)
* struct sockaddr\_in {

short sin\_family; // e.g. AF\_INET, AF\_INET6

unsigned short sin\_port; // e.g. htons(3490)

struct in\_addr sin\_addr; // see struct in\_addr, below

char sin\_zero[8]; // zero this

};

* struct in\_addr {

unsigned long s\_addr; // load with inet\_addr()

};

* int listen(int socket, int backlog)
* int accept(int socket, struct sockaddr \*addr, int \*addrlen)
* int send(int socket, const void \*buf, int buflen, int flags);
* int recv(int socket, void \*buf, int buflen, int flags);
* int connect(int socket, struct sockaddr \*addr, int addrlen)
* int close(int socket)