



Introdução às Redes de Comunicação

Sockets UDP: palavras-chave essenciais

```
SOCKET socket(int af, int type, int protocol); /* PF_INET, SOCK_DGRAM, IPPROTO_UDP*/
struct sockaddr_in a; /* a.sin_family, a.sin_addr.s_addr e a.sin_port */
...htons(...);
...htonl(...);
...ntohs(...);
...ntohl(...);
int bind(SOCKET s, const struct sockaddr *name, int namelen);
unsigned long inet_addr(const char *cp);
char* inet_ntoa(struct in_addr in);
int setsockopt(SOCKET s, int level, int optname, const char *optval, int optlen);
** level = SOL SOCKET, optname = SO RCVTIMEO
** optval = (char *)&timeoutMsec (DWORD timeoutMsec;)
int sendto(SOCKET s, const char *buf, int len, int flags, struct sockaddr *to, int tolen);
int getsockname(SOCKET s, struct sockaddr *name, int *namelen);
int recvfrom(SOCKET s, char *buf, int len, int flags, struct sockaddr *from, int *fromlen);
int WSAGetLastError(void); /* WSAETIMEDOUT */
SOCKET_ERROR
INVALID_SOCKET
int strcmp(const char *s1, const char *s2);
char * strcpy_s(char * strDestination, int sizeStrDestination, const char * strSource);
int closesocket(SOCKET s);
```