

Open_C_Sockets:_getsockopt,_setsockopt_method

The **getsockopt**, **setsockopt** methods gets and sets options on sockets.

```
int getsockopt (int s, int level, int optname, void * restrict optval,
               socklen_t * restrict optlen);

int setsockopt (int s, int level, int optname, const void *optval, socklen_t optlen);
```

The **getsockopt** and **setsockopt** system calls manipulate the options associated with a socket. Options may exist at multiple protocol levels; they are always present at the uppermost "socket" level.

Following is the usage of **getsockopt** and **setsockopt** system calls:

```
#include <sys/socket.h>
#include <netinet/in.h>
#include <unistd.h>
void SocketOptions()
{
    int sock_fd;
    int optval = 1;
    unsigned int optlen = sizeof(optval);
    int rdoptval;
    sock_fd = socket(AF_INET, SOCK_STREAM, IPPROTO_TCP);
    setsockopt(sock_fd, SOL_SOCKET, SO_KEEPALIVE, &optval, optlen);
    getsockopt(sock_fd, SOL_SOCKET, SO_KEEPALIVE, (void*)&rdoptval, &optlen);
    close(sock_fd);
}
```

Wiki Links

[Open C Sockets Overview](#)