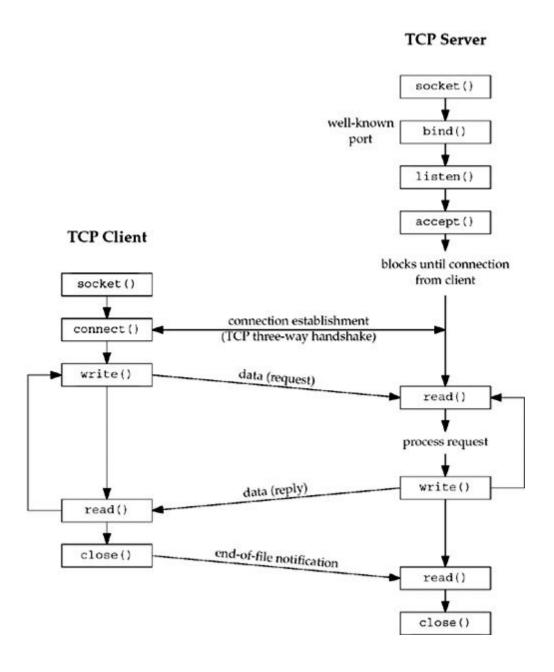
Client/Server programming using TCP



1. Client machine's program

```
/*TCP_Client*/
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
int main()
{ int sid;
char c;
struct sockaddr_in server_address;
int server_addlen;
server_address.sin_family=AF_INET;
server_address.sin_addr.s_addr=inet_addr("127.0.0.1");
server_address.sin_port=5080;
server_addlen=sizeof(server_address);
sid=socket(AF_INET,SOCK_STREAM,0);
connect(sid,(struct sockaddr *)&server_address,server_addlen);
write(sid,"B",1);
read(sid,&c,1);
printf("Char from server is %c\n",c);
close(sid);
return(0);
}
```

2. Server machines' program

```
/*TCP_Server*/
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
int main()
int serid, sessid;
char c;
struct sockaddr_in server_address,client_address;
int server_addlen,client_addlen;
server_address.sin_family=AF_INET;
server_address.sin_addr.s_addr=inet_addr("127.0.0.1");
server_address.sin_port=5080;
server_addlen=sizeof(server_address);
client_addlen=sizeof(client_addlen);
serid=socket(AF_INET,SOCK_STREAM,0);
bind(serid,(struct sockaddr*)&server_address,server_addlen);
listen(serid,10);
while(1)
{
printf("Server is ready to accept .....\n");
```

```
sessid=accept(serid,(struct sockaddr *)&client_address,&client_addlen);
read(sessid,&c,1);
write(sessid,&c,1);
close(sessid);
}
return(0);
}
```