

Remote Procedure Call

PROGRAM

Date.x

```
program DATE_PROG
{
    version DATE_VERS
    {
        long BIN_DATE(void)=1;
        string STR_DATE(long)=2;
    }=1;
}=0x31234567;
```

date_proc.c

```
//server
long *bin_date_1_svc(NULL)
{
    static long timeval;
    long time();
    timeval = time((long *) 0);
    return &timeval;
}
char **str_date_1_svc(long *lresult)
{
    static char* time;
    char* ctime();
    time=ctime(lresult);
    return &time;
}
```

rdate.c

```
//client
#include<rpc/rpc.h>
#include"date.h"
main(int argc,char *argv[])
{
    CLIENT *cl;
    char **sresult;
    long *lresult;
    char *servername;
    servername=argv[1];
    cl=clnt_create(servername,DATE_PROG,DATE_VERS,"udp");
    lresult=bin_date_1(NULL,cl);
    sresult=str_date_1(lresult,cl);
    printf("Time: %ld seconds\n",*lresult);
    printf("Date: %s\n",*sresult);
}
```

EXECUTING INSTRUCTIONS

SERVER SIDE:

\$rpcgen date.x

COMPILING

\$gcc -o server date_proc.c date_svc.c

EXECUTION

#./server

CLIENT SIDE:

\$rpcgen date.x

COMPILING

\$gcc -o client rdate.c date_clnt.c

EXECUTION

\$/client 127.0.0.1