```
1 #include "rpc.h"
2 #include "server_function_skels.h"
3
4 int main(int argc, char *argv[]) {
5
6
     /* create sockets and connect to the binder */
7
     rpcInit();
8
9
     /* prepare server functions' signatures */
10
     int count0 = 3:
11
     int count1 = 5;
12
     int count2 = 3;
13
     int count3 = 1;
14
     int count4 = 1;
15
     int argTypes0[count0 + 1];
16
     int argTypes1[count1 + 1];
17
     int argTypes2[count2 + 1];
     int argTypes3[count3 + 1];
18
19
     int argTypes4[count4 + 1];
20
21
     argTypes0[0] = (1 << ARG_OUTPUT) | (ARG_INT << 16);
22
     argTypes0[1] = (1 << ARG_INPUT) | (ARG_INT << 16);
23
     argTypes0[2] = (1 << ARG_INPUT) | (ARG_INT << 16);
24
     argTypes0[3] = 0;
25
     argTypes1[0] = (1 << ARG OUTPUT) | (ARG LONG << 16);
26
27
     argTypes1[1] = (1 << ARG INPUT)
                                        (ARG CHAR << 16);
28
     argTypes1[2] = (1 << ARG_INPUT)</pre>
                                        (ARG\_SHORT << 16);
29
     argTypes1[3] = (1 << ARG_INPUT)
                                        (ARG_INT << 16);
30
     argTypes1[4] = (1 \iff ARG INPUT)
                                      (ARG LONG << 16);
31
     argTypes1[5] = 0;
32
33
     * the length in argTypes2[0] doesn't have to be 100,
34
35
      * the server doesn't know the actual length of this argument
36
37
     argTypes2[0] = (1 \iff ARG OUTPUT) \mid (ARG CHAR \iff 16) \mid 100;
     argTypes2[1] = (1 << ARG_INPUT) | (ARG_FLOAT << 16);
38
39
     argTypes2[2] = (1 << ARG INPUT) | (ARG DOUBLE << 16);</pre>
40
     argTypes2[3] = 0;
41
42
     /*
43
     * f3 takes an array of long.
44
45
     argTypes3[0] = (1 << ARG OUTPUT) | (1 << ARG INPUT) | (ARG LONG << 16) | 11;
46
     argTypes3[1] = 0;
47
48
     /* same here, 28 is the exact length of the parameter */
49
     argTypes4[0] = (1 << ARG_INPUT) | (ARG_CHAR << 16) | 28;
50
     argTypes4[1] = 0;
51
52
53
     * register server functions f0~f4
54
55
     rpcRegister("f0", argTypes0, *f0_Skel);
56
     rpcRegister("f1", argTypes1, *f1_Skel);
57
     rpcRegister("f2", argTypes2, *f2 Skel);
58
     rpcRegister("f3", argTypes3, *f3 Skel);
59
     rpcRegister("f4", argTypes4, *f4 Skel);
60
61
     // this function is same as f4, only array length difference, should be ignored
62
     int count5 = 1:
63
     int argTypes5[count5 + 1];
     argTypes5[0] = (1 << ARG INPUT) | (ARG CHAR << 16) | 128;
64
```

```
65 argTypes5[1] = 0;
66 rpcRegister("f4", argTypes5, *f4_Skel);
67
68 /* call rpcExecute */
69 rpcExecute();
70
71 /* return */
72 return 0;
73 }
```