1. #include <stdio.h>
2. #include <stdlib.h>
3. #include <unistd.h>
4. #include <string.h>
5. #include <assert.h>
6. #include <sys/socket.h>
7. #include <netinet/in.h>
8. #include <arpa/inet.h>
9. #include <fcntl.h>
10. #include <sys/select.h>
11. #include <sys/time.h>
13. #define MAXFD 10
15. **void** fds\_init(**int** fds[])
16. {
17. **int** i=0;
18. **for**(; i < MAXFD;i++)
19. {
20. fds[i]=-1;
21. }
22. }
24. **void** fds\_add(**int** fds[],**int** fd)
25. {
26. **int** i=0;
27. **for**(;i<MAXFD;i++)
28. {
29. **if**( fds[i] == -1)
30. {
31. fds[i]=fd;
32. **return** ;
33. }
34. }
35. }
37. **void** fds\_del(**int** fds[],**int** fd)
38. {
39. **int** i=0;
40. **for**(;i<MAXFD;i++)
41. {
42. **if**( fds[i] == fd)
43. {
44. fds[i]=-1;
45. **return** ;
46. }
47. }
48. }
50. **int** main()
51. {
52. **int** fds[MAXFD];
53. fds\_init(fds);
54. fds\_add(fds,0);
56. **while**( 1 )
57. {
58. fd\_set fdset;
59. FD\_ZERO(&fdset);
61. **int** maxfd=-1;
62. **int** i=0;
63. **for**(;i<MAXFD;i++)
64. {
65. **if**( fds[i] == -1)
66. {
67. **continue**;
68. }
70. FD\_SET(fds[i],&fdset);
71. **if**(fds[i] > maxfd)
72. {
73. maxfd = fds[i];
74. }
75. }
76. **struct** timeval tv = {5,0};
77. **int** n =select(maxfd+1,&fdset,NULL,NULL,&tv);
79. **if**( n == -1)
80. {
81. printf("select error\n");
82. **continue**;
83. }
84. **else** **if** ( n == 0)
85. {
86. printf("time out\n");
87. **continue**;
88. }
89. **else**
90. {
91. **int** i=0;
92. **for**(;i<MAXFD;i++)
93. {
94. **if**( fds[i] == -1)
95. {
96. **continue**;
97. }
98. **if**( FD\_ISSET(0,&fdset))
99. {
101. **char** buff[128] = {0};
102. fgets(buff,128,stdin);
103. printf("recv(%d)=%s\n",fds[i],buff);
104. }
105. }
106. }
107. }
108. }

代码结果

