```
code/ecf/sigsuspend.c
 1
     #include "csapp.h"
 2
 3
     volatile sig_atomic_t pid;
 4
 5
     void sigchld_handler(int s)
 6
          int olderrno = errno;
 7
 8
          pid = Waitpid(-1, NULL, 0);
 9
          errno = olderrno;
10
     }
11
12
     void sigint_handler(int s)
13
     {
14
     7
15
16
     int main(int argc, char **argv)
17
     {
18
          sigset_t mask, prev;
19
          Signal(SIGCHLD, sigchld_handler);
20
          Signal(SIGINT, sigint_handler);
21
          Sigemptyset(&mask);
22
          Sigaddset(&mask, SIGCHLD);
23
24
          while (1) {
25
26
              Sigprocmask(SIG_BLOCK, &mask, &prev); /* Block SIGCHLD */
27
              if (Fork() == 0) /* Child */
28
                  exit(0);
29
30
              /* Wait for SIGCHLD to be received */
31
              pid = 0;
              while (!pid)
32
33
                  sigsuspend(&prev);
34
              /* Optionally unblock SIGCHLD */
35
              Sigprocmask(SIG_SETMASK, &prev, NULL);
36
37
              /* Do some work after receiving SIGCHLD */
38
39
              printf(".");
40
         7
41
         exit(0);
42
     }
                                                          code/ecf/sigsuspend.c
```

图 8-42 用 sigsuspend 来等待信号

## 8.6 非本地跳转

C语言提供了一种用户级异常控制流形式,称为非本地跳转(nonlocal jump),它将控制直接从一个函数转移到另一个当前正在执行的函数,而不需要经过正常的调用-返回序