fcntl example

The following code snippet shows how to use the *fcntl* function to set a socket nonblocking (see Section 7.11, Chapter 7). It is similar to the code on *p.*235, except that the code here uses the 'old ' *FNDELAY* option rather than the Posix *O_NONBLOCK* (see bottom of *p.*234).

Note that in some systems (and this seems to be the case in Solaris 2.10), when a listening socket spawns off a connection socket (using *accept*), the connection socket inherits the attributes of the listening socket. In particular, if the listening socket is non-blocking, then the connection socket will also be non-blocking. The first thing you must do after an *accept*, therefore, is to make the new connection socket blocking. See *p.*235 for how to do that.

```
#include <fcntl.h>
#include <sys/file.h>

. . . .

int fileflags;
int s;

. . . .

s = socket(AF_INET, SOCK_STREAM, 0);

. . . .

if (fileflags = fcntl(s, F_GETFL, 0) == -1)  {
   perror("fcntl F_GETFL");
   exit(1);
  }

if (fcntl(s, F_SETFL, fileflags | FNDELAY) == -1)  {
   perror("fcntl F_SETFL, FNDELAY");
   exit(1);
  }
```