

6. Reading Directories

The only standard fields in a directory entry structure are `d_ino` and `d_name`:

```
struct dirent
{
    ino_t  d_ino;      // Inode number
    char   d_name[256]; // Null-terminated filename
    //...
};
```

Example program from chapter 39 page 16:

```
#include <stdio.h>
#include <dirent.h>
#include <assert.h>

int main(int argc, char *argv[]) {
    DIR *dp = opendir(".");
    assert(dp != NULL);
    struct dirent *d;
    while ((d = readdir(dp)) != NULL) {
        printf("%lu %s\n", (unsigned long) d->d_ino, d->d_name);
    }
    closedir(dp);
    return 0;
}
```