Summary

This lab served as a basic introduction to a FAT-12 filesystem. The first task was to read and interpret the boot sector of the file system. With this information, it's possible to navigate to the root directory to start reading directory entries. The lab was pretty straightforward, but I had a lot of trouble with the time. I never got it working correctly, but I suspect it is due to endianness. Throughout my code, I left comments (mostly as notes for myself) that clearly illustrate what byte fields I'm accessing. As you'll see, I followed the spec for time and date to a letter, but still couldn't get it figured out.

Sample Output

```
bash-3.2$ ./fatls f12.img
VOLUME NAME: mkdosfs
FILENAME.EXT ATTR      SIZE DATE/TIME
PICS    .               0 64:58:52  2/64/2032
FILE    .TXT    A       47 64:10: 0  2/64/2032
CATS    .               0 64:34:32  2/64/2032
SECRET  .BAK RH A       52 64:18:56  2/64/2032
bash-3.2$
```

Well Formatted Screenshot