LAB04 CSC507

Lab 4

You'll need to work with examples4.tar.bz2 for this lab, which is on the website.

- 1. You'll be needing http://www.drchip.org/astronaut/drchipdbg/ and "get the source", compile it to object form (gcc -c dbg.c), and link it in when needed. For those using Ubuntu, you may have to remove the prototype for getline() in xtdio.h. To use this library, you'll need to tell the compiler two things:
 - where the library is: cc ... path/xtdio.a
 - where the header file is: cc -I path ...
 - so your compiling command will resemble: cc -Ipath ... path/xtdio.a
- 2. Use openseek; this creates a file openseek.dat. Referring to openseek.c; look at the file openseek.dat and explain what you see. Then explain the output to the terminal from openseek.
- 3. Use cheesey; this creates a file cheesey.hole. Referring to cheesey.c; use vim to look at the file cheesey.hole and explain what you see.
- 4. This step exercises the open program: (which you may have to run using ./open). This program uses the int open(const char *pathname,int flags,mode_t mode) function.
 - (a) Use man open to see the man pages for the open function
 - (b) Type open to get a listing of the commands that open supports
 - (c) Try to write to a file: ./open w lab4 . Explain the message.
 - (d) Try to create a file: ./open wc lab4 . Then try cat lab4. Explain the message. Type ls -lsa lab4; note the quantity of bytes in the file lab4. Remove the lab4 file.
 - (e) Try again to create a file, this time: ./open wctRuWu lab4 . What is this command doing? Type ls -lsa lab4. Type cat lab4 and see the result. Explain the permissions.
 - (f) Try ./open r lab4 and see the result.