ort Program 1: Low level fgets()/fputs()

Due: Friday, Jan 27 at 11:59 pm

Overview

In this assignment you are to write two functions which duplicate the actions of the *fgets()* and *fputs()* standard library functions but use ONLY the low level I/O functions read() and write(). Your functions *must* be named *reads()* and *writes()*

The standard library *fgets(char *s, int size, FILE *stream)* function reads in at most one less than *size* characters from stream and stores them into the buffer pointed to by *s*. Reading stops after an EOF or a newline. If a newline is read, it is stored into the buffer. A \0 is stored after the last character in the buffer. fgets() returns the number of bytes read including the newline but not including the \0.

The standard library *fputs(char *s, FILE *stream)* writes the string *s* to *stream*, without its trailing \0. fputs() returns the number of bytes written.

```
#include <fcntl.h>
#include <sys/stat.h>
#include <errno.h>

int reads(
char *buffer,  /* pointer to buffer */
int  bufsize,  /* buffer capacity   */
int  fdnx)     /* low level fd index (0 – stdin) */
{

}

int writes(
char *buffer, /* pointer to NULL terminated string */
int  fdnx)    /* low level fd indxe (1 – stdout)   */
{

}
```

How to submit your program:

NOTE: This procedure has NOTHING in common with "handin" nor "sendlab"
Do NOT even TRY to think about how they fit into this procedure because
THEY DON'T!!

<<<Do NOT turn in any image files, core files, makefiles etc.>>>

You must turn in 1 file: sp1.c

1. From any departmental Solaris system *ssh* to workstation *jmw*

2. The submission directories lie in the directory /local/jmw2/322/sp1 which is available ONLY IF YOU HAVE LOGGED INTO WORKSTATION jmw. Each student has a subdirectory of /local/jmw2/322/sp1. The name of your subdirectory is your userid (in the example we will assume your id is wjsmith).

3. copy (via the cp command) required file to your subdirectory in /local/jmw2/322/sp1

   For example:
   cp /home/wjsmith/322/sp1/sp1*.c /local/jmw2/322/sp1/wjsmith

   Here you would (hopefully) obviously need to replace
   /home/wjsmith/322/sp1/sp1.c
   with wherever you have your program.

4. Don't modify the permissions on your subdirectory. They are set so that ONLY you can access your directory.

After you think you have turned your programs in, its a good idea to
cd /local/jmw2/322/sp1/wjsmith
and make sure your files are there and they still compile and work correctly.