# University of Texas at Dallas--Computer Science Program
# CS 5348 Operating Systems Concepts Fall 2015
# Project 2

Unix V6 file system has a current limitation of 16MB on file size. Use the single unused bit in the flags field to increase size from 24 bits to 25 bits. Now, design and develop a program called fsaccess which will allow a Unix user access to the file system of a foreign operating system, the modified Unix Version 6 or mV6.
Your program will read a series of commands from the user and execute them. You should support the following commands:

(a) **initfs**

initfs should accept three arguments:
(1) the name of the file that physically represents the disk,
(2) number n1 indicating the total number of blocks in the disk and
(3) number n2 representing the total number of i-nodes in the disk.

An example is: initfs /user/venky/disk 1000 300.

The command line is terminated by the user typing a Return.

Initialize the disk by setting all of the data blocks to be free,
and set all i-nodes as unallocated. Allocate n2 blocks to i-nodes.

(b) **cpin externalfile mv6-file**

Creat a new file called v6-file in the current directory of the v6 file system and fill the contents of the newly created file with the contents of the externalfile.

(c) **cpout mv6-file externalfile**

If the v6-file exists, create externalfile and make the externalfile's contents equal to v6-file. If not, return an error.

(d) **mkdir mv6-dir**

If v6-dir does not exist in the current directory of the v6 file system, create the directory and set its first two entries . and .. and this is all you need to do.

(e) **q**

Save all changes and quit.

Some useful unix system calls are: lseek(), read(), write().
Due date: December 3, 2015 11:55 pm.
This is team project; same team as the second project.