Names:

Kyle Thakker

Steven Flynn

Nandan Thakkar

I-labs used in testing:

Man.cs.rutgers.edu

Kill.cs.rutgers.edu

Design.cs.rutgers.edu

Prototype.cs.rutgers.edu

Summary:

We built our file system with single and double indirection pointers as well as the opendir() and releasedir() functions. We implemented two data structures, p-node's and i-node's. In just like a normal OS the i-nodes contain data for either a directory or file while the p-nodes contain pointers to other blocks of memory.

We assumed a 512MB block size as well as a 100MB file size. This give use a total of 204800 blocks to work with. Block with index 0 is the directory block and is essentially a i-node with a mode of 0, indicating directory. The next 1,000 blocks are the rest of the i-nodes; and finally the remaining blocks are either p-nodes or data.

We started by initializing data structures as well as other data in the init() function than use sfs_open and sfs_create() to open and create a file, respectively. Next, we implemented the readdir() and then we conqured sfs_unlink() and finally sfs_read() and sfs_write() were finished.

Limitations:

1) Our implementation is only able to handle up to 228 files
2)