CSC 369 Exercise 6 Review

- 1. Kernel state
 - Process ID
 - Program Registers
 - I/O Information
 - Stack Pointer
 - Frame Pointer
- 2. \bullet b) Write to a disk
 - c) Change processor mode from kernel to user
 - f) Reading system time
 - g) halting the processor

Example

- b) Write to a disk
- c) Change processor mode from kernel to user
- g) halting the processor
- 3. b) write()
 - c) getpid()
 - e) fork()
 - h) sbrk()
 - i) mmap()
- 4. If is not validated, then the kenrel could execute a system call not meant for the purpose. This could be exploited, and this is a huge security issue.

User Pointer

- Is a parameter that is passed to system call
- Is stored in register (e.g. eax)
- it tells interrupt descriptor table to activate a specific type of system call