

## Week 2 Notes

### System Calls

- Berfungsi untuk memberi akses atau utilitas hardware ke aplikasi
- List of syscall are in page 2 of man

### Library Calls

- A wrapper function to call system calls
- Not all library calls use system calls
- List of library calls are in page 3 of man

### User Commands

- A wrapper function for shell

### How an application use a system call:

- An Application make a library call(Standard C Library or other implementation)
- The library function sets up arguments for the necessary system call and switches to kernel mode
- The Trap Handler receive the request, and made the actual system call
- System call starts, finish its task, and return it to the Trap Handler
- The Trap Handler receive the results, pack the result for the application to use and switches to user mode
- The library function receive the results, if no errors are caught, then return it to the application
- The Application receive the results and continue

### Redirection ( > )

- Dumps output to a file

### Pipes ( | )

- Runs both programs