

CS372 Operating System

Lab 2

Part I

Create a simple C program on Ubuntu which demonstrates these system calls

- fork()
- wait()
- exit()
- exec()

Part II

1. Type in the code for the date server, Figure 3.26,.
2. Type in the Date client code, Figure 3.27.

Part III

1. Copy the code from Part II and modify it so that it provides some other type of server service.
2. The server you create **must** process input information from the client.
3. Some ideas:

Coder-decoder
Chinese year determiner.
Fortune teller
Zip code interpreter

Part IV

Create a simple Java application that runs on the client containing text areas for the ip address and the port number.

A button that connects to the server;

A text box to input information to be sent to the server;

A button to send the information;

A text area to display the results;

Part V Turn in your lab

Zip (1) the source code of Part I, Part II, Part III, and Part IV and (2) a screen dump of the running of Part I, Part II, Part III, and Part IV. Turn in the zipped file to Moodle before the deadline.