Sichuan University Software Engineering College

Laboratory Report

Student No： Name： Major： Date:

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| --- | --- | --- | --- |
| Course Name | Practice in Operating System | Class Hours | 1 |
| Experiment Name | Overview of practice in Operating System | Time |  |
| The purpose of the experiment | fork, wait , execX | | |
| Experimental  Environment | X86，Windows7 or higher version，VMware Workstation，Ubuntu16.04 | | |
| The Experiment Content  （Algorithm, Programs, Steps and Methods ） | * Lab1   Create a child process using system call fork. Then print the parent ID in parent process and print child ID in child process by function *getpid*();   * Lab2   Create multi-process using fork, as:   * + **Parent process prints the sentence “Game begins”;**   + **Parent process wait for the execution of the child process;**   + Child process list the files of the current directory ;   + Parent processes print the sentence “Game over” and then end. * Lab3   Use gcc to compile a c file (any file you lile) to get its assembly code.   * **Copy your codes and screenshots in report.** * **Make all your figures or screenshots unique.** | | |
| Screenshot of experiment result | * Lab1   【**Code**】  【**screenshots** 】   * Lab2   【**Code**】  【**screenshots** 】   * Lab3   【**Code and command**】  【**screenshots** 】 | | |
| Advisor reviews | Grades： Signature of advisor ： | | |

Experiment report demonstration

Professional Experiment Center

**Experiment name** youshould use most concise language to reflex the experimental content. For example, when verifying one program, law or algorithm, you can write “verify XXX; analyze XXX”.

**The purpose of the experiment** must be clear, on the points, from theory and practice two aspects to consider. In theory, proving a theorem, formula, algorithms, and make the experimenter get profound and systematic understanding. In practice, to master the skills of using the experimental equipment and the procedures of program debugging, generally you need to state what is validating experiments, or designing experiment, and what is innovative experiments or comprehensive experiment.

**Experimental Environment** Software and hardware environment for laboratory use (configuration).

**The experiment content (algorithm, procedures, steps and methods)** this is the extremely important content. In this part you should specify that on the basis of what principle, law, or method of operating algorithm you conduct this experiment, and specify what several steps after. You should also draw a process flow diagram (Schematic diagram of the experimental device), and match it with the corresponding text description, this can save a lot of text, but also can make the experiment report concise, brief and clear.

**Data recording and computing** refers to the measured data from the experiment and calculation results.

**Conclusion (Results)** is based on the experimental phenomena and the measured data that you observe during the experiment.

**Summary** State your experience, thoughts and suggestions about this experiment .

**Notes and comments** you can write the reason of success or failure, and thought, suggestion, etc. after this experiment.

**Notice：Experimental report will be included in your experiment points.**