

OS Lab Exam

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Suppose we have a global variable $x=150$. What would be its value, when the program ends, if 2 threads of same function is being called in a program. The job of the function would be to add 50 in the variable x . 5 points

- ☐ 200
- ☒ 250
- ☐ No change
- ☐ Can't determine

Clear selection

We use Peterson solution algorithm to overcome which of the following problems (Check all that apply) 5 points

- ☐ Declaring variables
- ☐ CPU scheduling
- ☐ All of these
- ☐ None of these
- ☒ Critical Section problem



The first process ID (PID) of my PC is 1. Check in your PC what is the number (It may differ for various distributions of Linux). Note: Just write number in the blank e.g. 2 5 points

1

If there are 4 files in a directory naming Test11, Test111, Test1111, Test2. How to list the first 3 files? 5 points

- ☐ ls Test1---
- ☐ ls Test*
- ☒ ls Test1*
- ☐ ls Test1?
- ☐ ls ?Test2:Test1
- ☐ None of the options

Lets say we have executed 3 threads in a process (T1, T2, T3). If Pthread_join(T2, null) function is called just after the threads creation, what would be the output? 5 points

- ☐ T2 thread will be joined with the parent thread
- ☐ T2 thread will wait for other threads to get executed first
- ☐ T1 and T3 threads will be joined with T2 thread
- ☒ All the threads will wait for T2 thread to execute and exit

Clear selection



What would be the PIDs of 3 threads created in a process having PID 2002. The threads (T1, T2, T3) are created as in descending Order (i.e. T3, T2, T1). 5 points

- ☐ T1: 2003, T2: 2004, T3: 2005
- ☐ T3: 2003, T2: 2004, T1: 2005
- ☒ PIDs of T1, T2 and T3 would be same
- ☐ Can't determine the PIDs of the threads

Clear selection

In B programming, how to two add numbers a and b and save the answer in c (check all correct)? 5 points

- ☐ `c= $a + $b`
- ☐ `c=expr $a + $b`
- ☐ `c= a sum b`
- ☒ `c=expr` $a + $b``
- ☐ `c= a + b`



If you are a server administrator of a company and you have a group of 30 computers. If there is a file called confidential.txt, what would be its permissions? The file can only be fully accessed by you. The 30 computers in your group can only read the file. Other than that, no other user should be able to open/ access the file.

5 points

- ☐ 457
- ☐ None of these
- ☒ 740
- ☐ 741
- ☐ 470
- ☐ 777

Clear selection

`int a = fork();` //What is the value of fork (in case of success) if displayed in parent process

5 points

- ☐ -1
- ☐ 0
- ☒ PID of child process
- ☐ PID of parent process (From where the child process is created)
- ☐ 1

Clear selection



-lpthread is used in the compilation command for: (Select all correct)

5 points

- ☐ Programs having fork
- ☒ Programs having threads creation
- ☒ Programs having fork and threads execution
- ☒ Programs having threads execution and termination
- ☐ All of the options
- ☐ None of the options

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