2023_1 Process and Thread Management_Thursday

Hệ Điều Hành Chiều thứ 5

1. Student's Name * 🔊

   Nguyễn Tiểu Phương

2. Student ID * 🔊

   20210692

✉️ **Will be reviewed**

3. Which multi-thread mapping model allows threads to execute in parallel on a multiprocessor system while giving priority to the execution of threads with higher priority.? * 🔊

   ◯ many-to-one

   ⦿ 2 levels

   ◯ one-to-one

   ◯ many-to-many

4. Which comment about thread is incorrect? * 📖

○ When the thread ends, the process containing it must also terminate

○ Context switching between threads within the same process is faster than between processes

○ The process must have at least one thread

○ Different threads can be created from the same piece of code

5. What is context switching in Operating System? * 📖

○ F) Both A and B

○ A) The process of storing the state of a process so that it can be reloaded when needed and continue doing so from the same point as before

◉ D) Both A and C

○ B) The transition between user and kernel modes of the operating system

○ C) The process of switching between different processes using available CPUs in the system

○ G) A,B,C are all correct

○ E) Both B and C

6. How can inter-process communication (IPC) be implemented? * 📖

○ Message passing

○ Memory sharing

◉ All of the mentioned

○ Socket

7. P3 waiting time in Multilevel Queue example * 🔊

12

8. Message communication can be done in what two ways? * 🔊

○ Direct and indirect

○ 1 direction and two directions

○ Synchronous and asynchronous

◉ All the answers mentioned

9. From which state can a process transition to the Ready_Suspend state? * 🔊

○ C)Blocked_Suspend

○ A) New

◉ F) A, B and C

○ E) B andC

○ D) A and B

○ B)Ready

○ G) No correct answer

✍ **Will be reviewed**

10. What is the name of the scheduler that controls the level of multitasking by
selecting processes to load into memory? * 📖⁾

○ Medium-term scheduler

○ Real-time scheduler

● Long-term scheduler

○ Short-term scheduler

✍ **Will be reviewed**

11. Which comment about the thread is correct? * 📖⁾

○ Threads can exist independently, without processes

○ Threads have memory space independent of processes

● Threads in the same process can share process data with each other

○ Threads can share local parameters with each other

✍ **Will be reviewed**

12. What is the name of the scheduler that picks a process from the ready queue
and sends it to the CPU for execution? * 📖⁾

○ Real-time scheduler

○ Medium-term scheduler

○ Short-term scheduler

○ Long-term scheduler

13. What is the name of the scheduler that controls the degree of multiprogramming by selecting processes to load into memory? *

○ Real-time scheduler

○ Medium-term scheduler

◉ Long-term scheduler

○ Short-term scheduler

14. What are the advantages of shared memory over message passing? *

☑ Faster and does not require operating system kernel intervention

☐ All answers are correct.

☐ Easy setup and management

☑ More secure and unaffected by network issues