

CSPB 3753 - Fall 2024 - Knox - Operating Systems

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Started on Wednesday, 28 August 2024, 7:27 PM

State Finished

Completed on Wednesday, 28 August 2024, 7:31 PM

Time taken 3 mins 50 secs

Grade 10 out of 10 (100%)

Question 1

Correct

Mark 1 out of 1

Which of the following is not a goal of the OS?

Select one:

- ☐ a. Abstraction
- ☐ b. Protection
- ☐ c. Arbitration
- ☒ d. Connection



Question 2

Correct

Mark 1 out of 1

Which of the following are parts of the OS's responsibility?

Select one or more:

- ☐ a. Compiling a program
- ☒ b. Memory management ✓
- ☒ c. Process management ✓
- ☒ d. File system ✓
- ☒ e. Device management ✓

Question **3**

Correct

Mark 1 out of 1

How does a program access the OS services?

Select one:

- ☒ a. system call
- ☐ b. interrupt handler
- ☐ c. device driver
- ☐ d. jump table



Your answer is correct.

Question **4**

Correct

Mark 1 out of 1

What is an interrupt?

Select one:

- ☐ a. a method for starting a computer at power on
- ☐ b. a mode for executing privileged instructions
- ☐ c. a method for scheduling tasks to run
- ☒ d. an operation to stop CPU's current instruction stream and enter the OS to deal with an event



Your answer is correct.

Question **5**

Correct

Mark 1 out of 1

The ____ instruction interrupts the OS to signal to switch into ____ mode, which is needed for a system call.

Select one:

- ☐ a. trap : user
- ☐ b. interrupt : user
- ☐ c. interrupt : kernel
- ☒ d. trap : kernel

Question **6**

Correct

Mark 1 out of 1

Mode bit == 1 indicates:

Select one:

- ☒ a. User mode
- ☐ b. None of the above
- ☐ c. processor mode
- ☐ d. kernel mode



Question 7

Correct

Mark 1 out of 1

Which of the following can be used to pass parameters to a system call?

Select one or more:

- ☒ a. pointer placed in register ✓
- ☐ b. values placed on bus
- ☐ c. value placed in controller
- ☒ d. value placed on stack ✓
- ☒ e. value placed in a register ✓

Your answer is correct.

Question 8

Correct

Mark 1 out of 1

A process manager provides for:

Select one:

- ☐ a. creation\deletion of processes
- ☐ b. synchronization of processes
- ☐ c. monitoring and scheduling of processes
- ☒ d. All of the above ✓

Your answer is correct.

Question 9

Correct

Mark 1 out of 1

Local variables, Dynamically allocated variables , and Global variables are stored in the _____ blocks of memory respectively. (match them up)

Select one:

- ☐ a. Data, Stack, and Heap
- ☐ b. Data, Heap, and Stack
- ☐ c. Heap, Data, and Stack
- ☒ d. Stack, Heap, and Data
- ☐ e. Heap, Stack, and Data
- ☐ f. Stack, Data, and Heap



Your answer is correct.

Question 10

Correct

Mark 1 out of 1

What is a context switch?

Select one:

- ☐ a. moving the mode bit from 0 to 1
- ☐ b. switching the PC register to another address
- ☒ c. switching the active PCB from one process to another
- ☐ d. moving the process from one device to another
- ☐ e. interrupting the CPU to process a signal



Your answer is correct.