## CSPB 3753 - Fall 2024 - Knox - Operating Systems

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State Finished  Completed on Monday, 16 September 2024, 5:35 PM  Time taken 5 mins 16 secs  Marks 20/20  Grade 10 out of 10 (100%)  Question 1  Correct  Mark 1 out of 1  Why are threads called lightweight processes?  Select one:  a. threads get blown away by process efficiency  b. threads do not require as many OS resources as a process  d. threads bind together to become a process  Your answer is correct.  The correct answer is: threads do not require as many OS resources as a process		
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/24	, 10:45 PM	Quiz on Module 3 : Attempt review
	Question 2	
	Correct	
	Mark 1 out of 1	
	What is shared between threads of a process?	
	Select one:	
	a. registers, code, data	
	o b. code, data, heap	<b>✓</b>
	c. code, data, heap, stack	
	d. registers, process control block	
	Your answer is correct.	
	The correct answer is: code, data, heap	
	Question <b>3</b> Correct  Mark 2 out of 2	
	Why are multi-threads used over multi-processes?	
	Select one or more:	
	a. Threads use up less memory	
	b. Some tasks allow parallelization	
	c. Threads do not have fault isolation	
	d. Threads have faster context switching	
	e. Some tasks are sequential	
	f. Writing thread safe code is easy	

The correct answers are: Threads have faster context switching, Threads use up less memory, Some tasks allow parallelization

https://applied.cs.colorado.edu/mod/quiz/review.php?attempt=148919&cmid=64553

Your answer is correct.

24, 10:45 PM	Quiz on Module 3 : Attempt review
Question 4	
Correct	
Mark 2 out of 2	
Why are multi-processes used over m	nulti-threads?
Select one or more:	
a. Processes have fault isolation,	threads do not
b. Processes avoid needing safe o	code by having separate address spaces for data and heap
c. Some tasks allow parallelization	n
d. Processes use up less memory	
e. Processes have faster context s	switching
f. Some tasks are sequential	•
Your answer is correct.  The correct answers are: Some task by having separate address spaces	ks are sequential, Processes have fault isolation, threads do not, Processes avoid needing safe code for data and heap
Question <b>5</b> Correct	
Mark 2 out of 2	
What is a race condition?	
Select one:	
a. simultaneous execution by mult	tiple threads still has correct behavoir

b. service routine associated with a specific condition

oc. anomalous behavior due to unexpected critical dependence on the timing of events

d. code that can be interrupted in the middle of its execution and safely called again

Your answer is correct.

The correct answer is: anomalous behavior due to unexpected critical dependence on the timing of events

24, 10.4	Quiz on Module 3. Attempt review
Ques	stion <b>6</b>
Corr	rect
Marl	rk 1 out of 1
١	What is meant by "thread safe"?
Se	elect one:
	a. a task running only in kernel mode
o	b. a block of code that functions correctly during simultaneous execution by multiple threads
	c. a block of code (service routine) associated with a specific condition
	d. a block of code that can be interrupted in the middle of its execution and safely called again
	Your answer is correct.
	The correct answer is: a block of code that functions correctly during simultaneous execution by multiple threads
	stion <b>7</b>
Corr	
Mari	rk 1 out of 1
,	What is meant by reentrant?
Se	elect one:
	a. a block of code that functions correctly during simultaneous execution by multiple threads
o	b. a block of code that can be interrupted in the middle of its execution and safely called again
	c. a block of code (service routine) associated with a specific condition
	d. a task running only in kernel mode

The correct answer is: a block of code that can be interrupted in the middle of its execution and safely called again

https://applied.cs.colorado.edu/mod/quiz/review.php?attempt=148919&cmid=64553

Your answer is correct.

24, 10:45 PM
Question 8
Correct
Mark 2 out of 2
Which of th

Which of the following are two-way communication methods?

Select one or more: a. Semaphore b. RPC c. Pipes d. Sockets e. Shared memory f. Signals (interrupts) Your answer is correct. The correct answers are: Shared memory, Sockets, RPC

Question 9

Correct

Mark 2 out of 2

Which of the following is considered as a mechanism of Inter-Process Communications?

Select one or more: a. Shared memory b. Concurrency c. Sockets d. Deadlock e. Pipes

Your answer is correct.

The correct answers are: Shared memory, Pipes, Sockets

24	24, 10:45 PM Quiz on Modu	le 3 : Attempt review
	Question 10	
	Correct	
	Mark 2 out of 2	
	Which of the following are communication methods that can be used across ma	achines?
	Select one or more:	
	a. Signals (interrupts)	
	■ b. RPC ✓	
	c. Shared memory	
	d. Pipes	
	e. Sockets 💙	
	f. Message Passing	
	Your answer is correct.	
	The correct answers are: Sockets, RPC	
	Question 11 Correct	
	Mark 1 out of 1	
	Which of the following is a disadvantage of IPC message passing?	
	Select one:	
	a. It doesnt require synchronization	
	o b. It is slow	<b>~</b>
	c. It is handled in the kernel	
	d. There are no disadvantages	

Your answer is correct.

The correct answer is: It is slow

	4	
Ouestion	-1	4

Correct

Mark 1 out of 1

What is difference between Synchronous and Asynchronous system calls?	
Select one:  a. Asynchronous will not continue until the command is completed, Synchronous will return immediately	
b. Synchronous will not make call until the command can be completed, Asynchronous will always make the call and wait	
c. Asynchronous will only make call if it can be completed, Synchronous will only make the call if it must wait	
<ul> <li>d. Synchronous will not continue until the command is completed,</li> <li>Asynchronous will return immediately</li> </ul>	•
Your answer is correct.  The correct answer is: Synchronous will not continue until the command is completed, Asynchronous will return immediately	

-	Quiz on richard of rimempers in
	Question 13
	Correct
	Mark 2 out of 2
	Which of the following are true about Shared Memory?
	Select one or more:
	a. can be shared between two processes
	b. access is only available from the kernel
	c. each memory segment can be named
	d. allocated from kernel
	e. duplicated during process creation with fork()
	f. allocated from the heap
	Your answer is correct.  The correct answers are: allocated from kernel, can be shared between two processes, each memory segment can be named
	Question 14
	Correct
	Mark 1 out of 1
	What is the name of the mechanism of packaging and unpacking the data in Remote Procedure Calls?
	Select one:
	o a. marshaling
	○ b. deploying
	c. interrupting
	d. procedures

Your answer is correct.

The correct answer is: marshaling