Quizlet

OS Chap 3 Q's

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abstract procedure calls for use between systems with network connections.	Remote Procedure Calls (RPCs)	14. What is a Process Control Block (PCB) ?	A PCB serves as the repository for any information that may vary from process to process. Includes: Process state, Program counter, CPU registers, CPU-
2. How must shared memory behave for a rendezvous to occur?	More of a IPC state - synchronous (blocking) send() and receive(). Trivial producer-consumer		scheduling information, Memory- management information, Accounting information, I/O status information.
	solution.	15. What is a process identifier (PID)?	What is a process identifier (PID)? A unique process identifier, typically an integer. Can be used as an index to access various attributes of a process within the kernel.
3. Provide at least three possible states a process may be in.	New, Running, Waiting, Ready, Terminated		
4. Provide at least two types of communication mechanisms in client-	Sockets Remote Procedure Calls Pipes	16. What is parameter marshaling?	Packaging parameters into a form that can be sent over a network.
server systems. 5. TCP sockets are (a)	(a) connection-oriented	17. What is the degree of multiprogramming?	The number of programs in memory. Controlled by the long-term scheduler.
connection-oriented or (b) connection-less?		18. What is the name of the process that UNIX and Linux systems assign as the new parent of orphan processes?	init (the root of the process hierarchy in UNIX and Linux systems)
6. True or False? Message passing is typically faster than shared memory.	False Shared memory faster for single- core, Message passing shown to exhibit better performance for multi-CPU systems.		
7. True or False? Most	True	19. What is the role of	To select an available process for
operating systems allow a process to have		the process scheduler?	program execution on the CPU.
multiple threads. 8. UDP sockets are (a)	(b) connectionless	20. What is the term that describes saving the state of one process, and restoring the state of another? 21. What system call creates a process on UNIX systems? 22. What system call creates a process on Windows	Context Switch
connection-oriented or (b) connectionless?	(b) confidencial		
9. What are the four	Stack, Heap, Data, Text (and		
components of a process?	program counter, processor register)		fork()
10. What are the two	Shared memory and Message		
fundamental models of interprocess communication?	passing		CreateProcess()
	send(), receive()	systems?	
system calls used with message-passing systems?		23. What system call does Mach use to	allocate()
12. What are the two types of pipes?	Ordinary pipes, Named pipes	create a new mailbox?	
13. What is another term for process?	Job	24. What system call is used to configure the size of a POSIX shared memory object?	ftruncate()
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25. What system call is used to create a POSIX shared memory object?	shm open()
26. What system call terminates a process on UNIX systems?	exit()
27. What term does Mach use to describe mailboxes?	ports
28. What term does Windows use to name its message passing facility?	Advanced local procedure call