Assignment Project Exam Help Add WeChat powcoder

CS:3620 Operating Systems

Add WeChat powcoder Inter Process Communication (IPC)

Inter Process Goppmenication (IPC)

Processes do not share any memory with each other

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 Some processes might want to work together for a task, so need to https://powcoder.com

communicate information

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IPC mechanisms to share information between processes

Shared Antempower Shared Sha

- Processes can both access same region of memory via shmget() system call
 - int shmget (key t key, int shmila) Exam Help
- By providing same key, two processes can get same segment of memory

- Can read/write to memory to communicate
- Need to take care that one is not overwriting other's data

Signals Add WeChat powcoder

- A certain set of signals supported by OS
 - Some signals have fixed meaning (e.g., signal to terminate process)
 Some signals can be user-defined
- Signals can be sent to approcess by Oscarother process (e.g., if you type Ctrl+C, OS sends SIGINT signal to running process)
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 • Signal handler: every process has a default code to execute for each
- signal
 - Exit on terminate signal
- Some signal handlers can be overridden to do other things

SocketsAdd WeChat powcoder

- Sockets can be used for two processes on same machine or different machines to communicate ment Project Exam Help
 - TCP/UDP sockets across machines powcoder.com
 - Unix sockets in local machine Add WeChat powcoder
- Communicating with sockets
 - Processes open sockets and connect them to each other
 - Messages written into one socket can be read from another
 - OS transfers data across socket buffers

Messagadowethersowcoder

- Mailbox abstraction
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- Process can open a mailbox at a specified location https://powcoder.com
- Processes can send/receive messages from mailbox
- OS buffers messages between send and receive

Blocking www.mpbwocking communication

- Some IPC actions can block
 - Reading from socket that has no data, of reading from empty message queue
 - Writing to a full socket https://www.goder.com
- The system calls to read write have versions that block or can return with an error code in case of failure
 - A socket read can return error indicating no data to be read, instead of blocking

Disclair Act We Chat powcoder

 These lecture slides are based on a slide set by Youjip Won (Hanyang University) and Mythili Vutukuru (IIT Bombay) Assignment Project Exam Help

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