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Interprocess Communications in Linux: The Nooks and Crannies

By Gray, John Shapley

Prentice Hall, 2003. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Introduction. Acknowledgments. 1. Programs and Processes. Introduction. Library Functions. System Calls. Linking Object Code. Managing Failures. Executable File Format. System Memory. Process Memory. The u Area. Process Memory Addresses. Creating a Process. Summary. Key Terms and Concepts. 2. Processing Environment. Introduction. Process ID. Parent Process ID. Process Group ID. Permissions. Real and Effective User and Group IDs. File System Information. File Information. Process Resource Limits. Signaling Processes. Command-Line Values. Environment Variables. The /proc Filesystem. Summary. Key Terms and Concepts. 3. Using Processes. Introduction. The fork System Call Revisited. exec's Minions. Using fork and exec Together. Ending a Process. Waiting on Processes. Summary. Key Terms and Concepts. 4. Primitive Communications. Introduction. Lock Files. Locking Files. More About Signals. Signal and Signal Management Calls. Summary. Key Terms and Concepts. 5. Pipes. Introduction. Unnamed Pipes. Named Pipes. Summary. Key Terms and Concepts. 6. Message Queues. Introduction. IPC System Calls: A Synopsis. Creating a Message Queue. Message Queue Control. Message Queue Operations. A Client-Server Message Queue Example. Message Queue Class. Summary. Key Terms and Concepts. 7. Semaphores. Introduction. Creating and Accessing Semaphore Sets. Semaphore Control. Semaphore Operations. Semaphore Class. Summary. Key Terms and Concepts. 8. Shared Memory. Introduction. Creating a Shared Memory Segment...

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