

Advanced Operating System

1. Define distributed systems and explain their goals, advantages, and disadvantages.
2. Identify hardware and software concepts in distributed systems and discuss design issues.
3. Analyze synchronization in distributed systems including clock synchronization, mutual exclusion, and deadlock prevention algorithms.
4. Evaluate distributed file systems, their features, goals, file models, accessing models, and sharing semantics.
5. Examine distributed shared memory systems, their architecture, design and implementation issues, and protocols used.
6. Assess naming in distributed systems, including system-oriented names, basic concepts, and object locating mechanisms.
7. Investigate communication in distributed systems, covering computer networks, layered protocols, message passing, synchronization, and client-server model implementation.
8. Explore processes and processors in distributed systems, focusing on threads, processor allocation, scheduling, load balancing, fault tolerance, real-time systems, and process migration.
9. Discuss distributed web-based systems architecture, processes, communication, naming, synchronization, consistency, and replication techniques.
10. Analyze case studies like SUN RPC and Java RMI to understand their implementation issues and real-world applications.

Select Language 

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