

Study Questions

"Distributed Operating Systems"

Ch 6: Distributed Shared Memory

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CS 4210 Advanced Operating Systems

Fall 1999 • Georgia Tech/Computer Science • Hutto

PART 1: 6.2 Survey of Shared Memory Systems 6.3 Consistency Models

1. Briefly describe the differences between 1) bus-based, 2) ring-based, 3) switched, and 4) NUMA shared memory architectures.
2. How is the notion of a "home" for each memory block (page) used in Memnet?
3. What is the difference between sequentially consistent and serial (atomic, strict) memory?
4. What's the point of weakening the memory consistency model in a DSM system?
5. How are the synchronization-based consistency models different from those models that do not consider synchronization operations to be special?