

COSC 4740 Operating System Design

Written Q8

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What are the 5 benefits of Threads?

1. **Responsiveness:** Threads enable faster responses by allowing tasks to run concurrently.
2. **Resource Sharing:** Threads can share resources like memory within the same process, improving efficiency.
3. **Economy:** Threads are more effective than processes, requiring fewer system resources.
4. **Scalability:** Threads allow programs to scale across multiple processors, improving performance on multi-core systems.
5. **Utilization of MP Architectures:** Threads maximize the utilization of multi-processor architectures by distributing workloads across available cores.