NPTEL Video Course - Computer Science and Engineering - Real Time Systems

Subject Co-ordinator - Prof. Rajib Mall

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction
Lecture 2 - Real - Time System Characteristics
Lecture 3 - Few Basic Issues
Lecture 4 - Modelling Timing Constraints
Lecture 5 - Modelling Timing Constraints (Continued.)
Lecture 6 - Basics of Real - Time Task Scheduling
Lecture 7 - Cyclic Scheduler
Lecture 8 - Event - Driven Scheduling
Lecture 9 - Rate Monotonic Scheduler
Lecture 10 - RMA Scheduling
Lecture 11 - Deadline Monotonic Scheduling and Other Issues
Lecture 12 - Few Issues in Use of RMA
Lecture 13 - Resource Sharing Among Real-Time Tasks
Lecture 14 - Highest Locker and Priority Ceiling Protocols
Lecture 15 - An Analysis of Priority Ceiling Protocol
Lecture 16 - Handling Task Dependencies
Lecture 17 - Real-Time Task Scheduling on Multiprocessors and Distributed Systems
Lecture 18 - Real-Time Task Scheduling on Multiprocessors and Distributed Systems (Continued.)
Lecture 19 - Clock Synchronization in Distributed Real-Time Systems
Lecture 20 - Internal Clock Synchronization in Presence of Byzantine Clocks
Lecture 21 - A Few Basic Issues in Real-Time Operating Systems
Lecture 22 - Tutorial - I
Lecture 23 - A Few Basic Issues in Real-Time Operating Systems (Continued.)
Lecture 24 - Unix and Windows as RTOS
Lecture 25 - Real - Time POSIX
Lecture 26 - Real - Time POSIX (Continued.)
Lecture 27 - Open Source and Commercial RTOS
Lecture 28 - Open Source and Commercial RTOS (Continued.)
Lecture 29 - Benchmarking Real - Time Computer & Operating Systems

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Lecture 30 - Benchmarking Real - Time Computer & Operating Systems (Continued.)
Lecture 31 - Real - Time Communications
Lecture 32 - Few Basic Issues in Real - Time Communications
Lecture 33 - Review of Computer Networking
Lecture 34 - Real - Time Communication in a LAN
Lecture 35 - Real - Time Communication in a LAN (Continued.)
Lecture 36 - Performance of Two Real -Time Communication Protocols
Lecture 37 - Real - Time Communication over Packet Switched Networks
Lecture 38 - Real - Time Communication over Packet Switched Networks (Continued.)
Lecture 39 - Real - Time Communication over Packet Switched Networks (Continued.)
Lecture 40 - Real - Time Databases
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