NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

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NPTEL Video Course - Computer Science and Engineering - NOC: 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 - Introduction
Lecture 3 - Characteristics of a real-time embedded system
Lecture 4 - Characteristics of a real-time embedded system
Lecture 5 - Types of real-time tasks
Lecture 6 - Events in a Real-Time System
Lecture 7 - Types of time constraints
Lecture 8 - Basics of Real-Time Task scheduling
Lecture 9 - Clock-driven schedulers
Lecture 10 - Basics of Cyclic schedulers
Lecture 11 - Cyclic Scheduler
Lecture 12 - Frame size constraints
Lecture 13 - Frame size selection: Examples
Lecture 14 - Event-driven scheduling
Lecture 15 - EDF scheduler
Lecture 16 - Variants of EDF and Rate Monotonic Scheduling
Lecture 17 - Rate Monotonic Schedulability Analysis
Lecture 18 - Rate Monotonic Schedulability Analysis
Lecture 19 - Rate Monotonic Scheduling: Miscellaneous issues
Lecture 20 - RMS Generalizations
Lecture 21 - RMS Generalizations
Lecture 22 - Handling aperiodic and sporadic tasks in rate monotonic scheduling
Lecture 23 - Handling aperiodic and sporadic tasks in rate monotonic scheduling
Lecture 24 - Coping up with Insufficient number of priorities
Lecture 25 - Handling task jitter and precedence ordering
Lecture 26 - Resource Sharing Among Real-Time Tasks
Lecture 27 - Basic priority inheritance protocol (PIP)
Lecture 28 - Highest Locker Protocol (HLP)
Lecture 29 - Priority Ceiling Protocol (PCP)
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Lecture 30 - Working of Priority Ceiling Protocol
Lecture 31 - Analysis of Priority Ceiling Protocol
Lecture 32 - Introduction to Multiprocessor and Distributed Systems
Lecture 33 - Static Allocation of Tasks
Lecture 34 - Dynamic Allocation of Tasks
Lecture 35 - Centralized Clock Synchronization in Distributed RT Systems
Lecture 36 - Distributed Clock Synchronization in R-T Systems
Lecture 37 - A Few Basics in Real-Time Operating Systems
Lecture 38 - Time Services
Lecture 39 - Unix as a Real-Time Operating System
Lecture 40 - Unix as a Real-Time Operating System (Continued...)
Lecture 41 - Windows as RTOS
Lecture 42 - POSIX
Lecture 43 - Unix-Based Real-Time Operating Systems
Lecture 44 - A survey of some contemporary Real-Time Operating Systems
Lecture 45 - A survey of some contemporary Real-Time Operating Systems (Continued...)
Lecture 46 - Benchmarking Real-Time Systems
Lecture 47 - Introduction to Real-Time Communication
Lecture 48 - Basics of Real-Time Communication
Lecture 49 - Basics of Networking
Lecture 50 - Basics of Internet
Lecture 51 - Real-Time Communication in a LAN
Lecture 52 - Bounded Access Protocols for LANs
Lecture 53 - Performance Comparison and QoS Framework
Lecture 54 - Routing and Resource Reservation
Lecture 55 - Rate Control
Lecture 56 - QoS Models and Soft Real-Time Communication in a LAN
Lecture 57 - Review of Basic Database Concepts
Lecture 58 - Applications and Issues of Real-Time Database
Lecture 59 - Characteristics of Temporal Data
Lecture 60 - Locking-Based Concurrency Control In Real-Time Databases
Lecture 61 - Concurrency Control In Real-Time Databases and Commercial RT Databases
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