

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

NPTEL Video Course - Computer Science and Engineering - Storage Systems

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Co-ordinating Institute - IISc - Bangalore

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

- Lecture 1 - Overview
- Lecture 2 - Storage, Processing, Networking
- Lecture 3 - Naming and Storing
- Lecture 4 - Storage Filesystems
- Lecture 5 - Access Architecture, Hard Disks
- Lecture 6 - SCSI
- Lecture 7 - Fibre Channel Protocol (FCP)
- Lecture 8 - FCP, 10Gb Ethernet, iSCSI, TCP
- Lecture 9 - NFS, NFSv2
- Lecture 10 - NFSv2, NFSv3, NFSv4, CIFS
- Lecture 11 - USB Storage
- Lecture 12 - Tiering
- Lecture 13 - Mobile/Personal/Organizational - type Storage
- Lecture 14 - Parallel/Cloud/Web-scale Storage
- Lecture 15 - Long-term Storage
- Lecture 16 - Storage interfaces
- Lecture 17 - User-Memory-CPU interactions
- Lecture 18 - Spinlock, Concurrency
- Lecture 19 - Block Layer design
- Lecture 20 - FAT, TFAT, F2FS, LFS, FTL
- Lecture 21 - Data Structures
- Lecture 22 - Abstractions
- Lecture 23 - Link & Write Operations
- Lecture 24 - ZFS
- Lecture 25 - RAID in Filesystems
- Lecture 26 - RAID-Z, NetApp RAID4, Flash Filesystems
- Lecture 27 - Reliability
- Lecture 28 - Performance
- Lecture 29 - Security

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- Lecture 30 - CAP Theorem
- Lecture 31 - POSIX/NFS/S3/Zookeeper, ACID Vs. BASE
- Lecture 32 - Consistency & Commit problems
- Lecture 33 - Paxos
- Lecture 34 - Group Communication problem
- Lecture 35 - Message Ordering
- Lecture 36 - Ordering Models
- Lecture 37 - Orderings in Filesystems
- Lecture 38 - Semantics of highly scalable filesystems
- Lecture 39 - GFS
- Lecture 40 - GFS Model
- Lecture 41 - GFS functions and operations
- Lecture 42 - GFS problems, BigTable
- Lecture 43 - Lessons to learn