CSGE602055 Operating Systems CSF2600505 Sistem Operasi Mingggu 09

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http://rms46.vlsm.org/2/207.html

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Agenda

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- Week 09
- File Systems
- Mass Storage Systems
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Week 09: File dan Storage System

- Reference: (OSCE2e ch9/10/11) (UCB 17A/18/19) (UDA P4L2 P4L2) (OLD 07 08)
- File System Interface
- File Attribute
- File Operation
- Disk Stucture and Organization
- File Systen Types
- Directory
- FS Mounting vs. Volume Based System
- FS Structure and Implementation
- File Control Block
- FS In Memory Structure
- VFS
- Directory Implementation

File Systems

- File System Layers
 - Application Programs
 - Logical File Systems
 - File-Organization Module
 - Basic File Systems
 - I/O Control
 - Hardware Device
- Allocation Method
 - Contiguous
 - Linked
 - Indexed
 - Combined Scheme
- Cache
- STREAMS

Mass Storage Systems

- Mass Storage Structure
- Solid State Disk
- Storage Array
- SAN
- NAS
- Scheduling: FCFS, SSTF, SCAN, C-SCAN, C-LOOK.
- Disk Management
- RAID
- the /dev/ directory
 - /etc/fstab
 - Device Major and Minor Numbers
 - UUID Universally Unique IDentifier (128 bits)
 - practically is NOT guaranteed unique
 - FUSE: Filesystem in Userspace
- Lab
 - Visit http://os162.vlsm.org/

The End

• This is the end of the presentation.