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Introduction to Mainframe Technology

Mainframe Applications

Characteristics of Mainframe Applications

Classes of Mainframe applications

- Batch
- On-line
- Interactive
- Inter/Intra/Extranet
- Network Capabilities

Application Development

- High Level Languages
- Standard Utilities
- Other Utilities

Mainframe Components

CPUs

Main Storage

Channels

Control Units

Direct Access Storage Device (DASD)

Tape Devices

Printers & Card Readers

Terminals

Operating Systems

System Operation

Maintenance

OS Components

Features

- Virtual Storage
- Swapping
- Paging
- Multiprogramming
- Spooling

Sub-Systems

Usage Modes

- Batch Processing
- Time Sharing



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Data Sets

- Catalogs
- VTOC and DASD labels
- Tape Labels
- Naming Convention
- Generation Data Groups

Data Security

Archiving

Backup

OS Processing

Data Set Access

- File Organization
- Record Organization
- Access Strategies

Databases

- Concepts
- Hierarchical Databases
- Network Databases
- Relational Databases

Batch Processing

- Jobs
- JCL
- Job Entry Subsystem (JES)
- Job Submission
- Job Scheduling
- Initiators
- Job Execution
- Output Processing
- Scheduling Extensions
- Audit Extensions
- Output Extensions

OS TP Monitors and Tools

TP Monitors

- SNA/VTAM
- CICS/VS
- IMS
- VM/CMS
- TSO



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Development Tools

- ISPF
- Development Cycle
- Environment Management
- Source Management
- Program Creation
- Program Execution
- Debugging Features
- Source Control
- Environment Customization

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