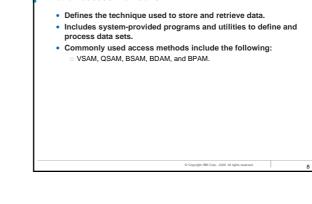
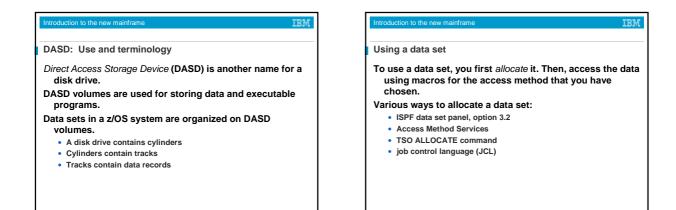
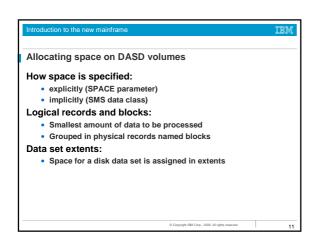


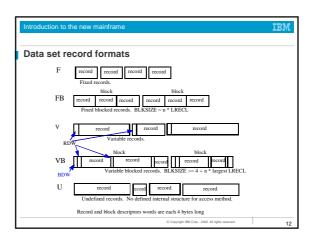
Introduction to the new mainframe Introduction to the new mainframe Data management in z/OS What an access method is Data management involves all of the following tasks: • Defines the technique use • allocation, placement, monitoring, migration, backup, recall, recovery, and deletion. • Includes system-provided processes (or through a combination or both). In z/OS, Data Facility: System-Managed Storage (DFSMS) is used to automate storage management for data sets. • VSAM, QSAM, BSAM, BD



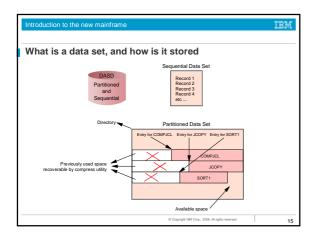
TRM



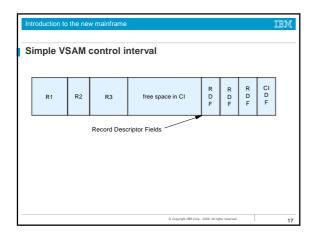




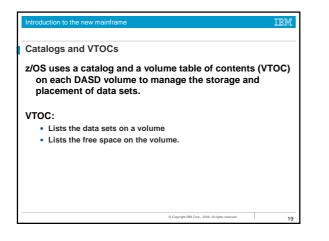
ntroduction to the new mainframe IRM troduction to the new mainframe IBM PDS versus PDSE Types of data sets We discuss three types in this class: PDS data sets: · Sequential, partitioned, and VSAM Simple and efficient way to organize related groups of sequential A sequential data set is a collection of records written and files. read in sequential order from beginning to end. PDSE data sets: A partitioned data set (PDS) is a collection of sequential • Similar to a PDS, but advantages include: data sets, called members. Space reclaimed automatically when a member is deleted · Consists of a directory and one or more members. Flexible size Also called a library. O Can be shared A PDSE is a partitioned data set extended. · Faster directory searches 14

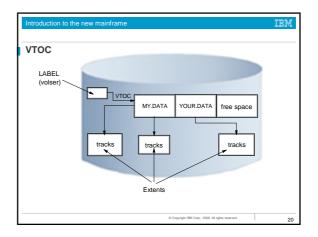


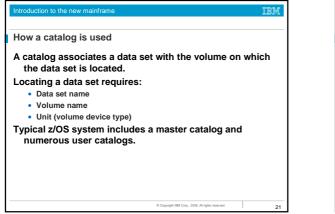
VSAM				
VSAM is	Virtual Storag	e Access N	<i>lethod</i>	
	vides more methods	complex f	unctions that	n other disk
VSAM rec	ord formats:			
 Key S 	equence Data	Set (KSDS)		
 Entry 	Sequence Data	a Set (ESDS)	
 Relat 	ive Record Dat	a Set (RRDS)	
 Linea 	r Data Set (LDS	5)		

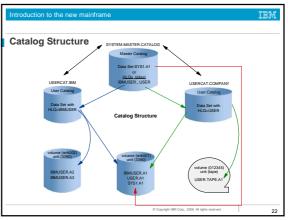


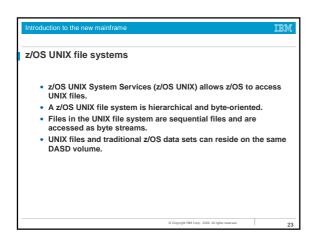
How data sets are named	
Data set naming convention	
Unique name	
 Maximum 44 characters 	
 Maximum of 22 name segments: level qualifier 	
 The first name in the left: high level qualifier (HLQ) 	
 The last name in the right: low level qualifier (LLQ) 	
 Level qualifiers are separated by '.' 	
Each level qualifier:	
 From 1 up to 8 characters The first must be alphabetical (A-Z) or special (@ # \$) 	
 The first must be alphabetical (A-2) of special (@ # \$) The 7 remaining: alphabetical, national, numeric (0-9) or hyphen (-) 	
 Upper case only 	
Example: MYID.JCL.FILE2 HLQ: MYID 3 qualifiers	
Member name of partitioned data set	
8 bytes long	
 First byte: alphabetical (A-Z) or special (@ # \$) 	
 The 7 remaining: alphabetical, special, numeric (0-9) 	

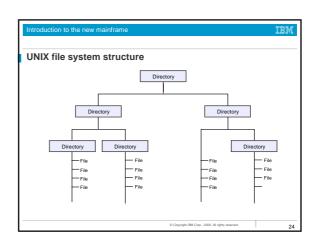












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Summary

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- A data set is a collection of logically related data (programs or files)
- Data sets are stored on disk drives (DASD) and tape.
- Most z/OS data processing is record-oriented. Byte stream files are not present in traditional processing, except in z/OS UNIX.
- z/OS records follow well-defined formats, based on record format (RECFM), logical record length (LRECL), and the maximum block size (BLKSIZE).
- z/OS data set names have up to 44 characters, divided by periods into qualifiers.

Summary (continued)

duction to the new mainfr

- Catalogs are used to locate data sets. VSAM is an access method that provides more complex functions than other disk access methods.
- z/OS libraries are known as partitioned data sets (PDS or PDSE) and contain members.
- A file in the hierarchical file system can be either a text file or a binary file. •
- z/OS treats an entire UNIX file system hierarchy as a collection of "data sets." Each data set is a mountable file system.

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