

# Using IDCAMS to Manage VSAM Data Sets

Session 12998

Presented by  
Michael E. Friske



# Ibm Idcams Manual

**Donna Kelly,Jim Harding**



## **Ibm Idcams Manual:**

**Introduction to the New Mainframe: IBM z/VSE Basics** Mike Ebbers, Wolfgang Bosch, Hans Joachim Ebert, Helmut Hellner, Jerry Johnston, Marco Kroll, Wilhelm Mild, Wayne O'Brien, Bill Ogden, Ingolf Salm, Joerg Schmidbauer, Martin Walbruehl, IBM Redbooks, 2016-03-02 This IBM Redbooks publication is based on the book Introduction to the New Mainframe z OS Basics SG24 6366 which was produced by the International Technical Support Organization ITSO Poughkeepsie Center It provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer For optimal learning students are assumed to have successfully completed an introductory course in computer system concepts such as computer organization and architecture operating systems data management or data communications They should also have successfully completed courses in one or more programming languages and be PC literate This textbook can also be used as a prerequisite for courses in advanced topics or for internships and special studies It is not intended to be a complete text covering all aspects of mainframe operation It is also not a reference book that discusses every feature and option of the mainframe facilities Others who can benefit from this course include experienced data processing professionals who have worked with non mainframe platforms or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment As we go through this course we suggest that the instructor alternate between text lecture discussions and hands on exercises Many of the exercises are cumulative and are designed to show the student how to design and implement the topic presented The instructor led discussions and hands on exercises are an integral part of the course and can include topics not covered in this textbook In this course we use simplified examples and focus mainly on basic system functions Hands on exercises are provided throughout the course to help students explore the mainframe style of computing At the end of this course you will be familiar with the following information Basic concepts of the mainframe including its usage and architecture Fundamentals of IBM z VSE VSE an IBM zTM Systems entry mainframe operating system OS An understanding of mainframe workloads and the major middleware applications in use on mainframes today The basis for subsequent course work in more advanced specialized areas of z VSE such as system administration or application programming

**IBM TS7700 Release 4.2 Guide** Larry Coyne, Derek Erdmann, Joe Hew, Sosuke Matsui, Alberto Barajas Ortiz, Aderson Pacini, Michael Scott, Chen Zhu, IBM Redbooks, 2019-04-19 This IBM Redbooks publication covers IBM TS7700 R4 2 The IBM TS7700 is part of a family of IBM Enterprise tape products This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation Building on over 20 years of virtual tape experience the TS7760 now supports the ability to store virtual tape volumes in an object store The TS7700 has supported off loading to physical tape for over two decades Off loading to physical tape behind a TS7700 is utilized by hundreds of organizations around the world Using the same hierarchical storage techniques the TS7700 can also off load to

object storage Given object storage is cloud based and accessible from different regions the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid As of the release of this document the TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 To learn about the TS7760 cloud storage tier function planning implementation best practices and support see IBM Redpaper IBM TS7760 R4 2 Cloud Storage Tier Guide redp 5514 at <http://www.redbooks.ibm.com/abstracts/redp5514.html> The IBM TS7700 offers a modular scalable and high performance architecture for mainframe tape virtualization for the IBM Z environment It is a fully integrated tiered storage hierarchy of disk and tape This storage hierarchy is managed by robust storage management microcode with extensive self management capability It includes the following advanced functions Improved reliability and resiliency Reduction in the time that is needed for the backup and restore process Reduction of services downtime that is caused by physical tape drive and library outages Reduction in cost time and complexity by moving primary workloads to virtual tape More efficient procedures for managing daily backup and restore processing Infrastructure simplification through reduction of the number of physical tape libraries drives and media TS7700 delivers the following new capabilities TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 8 way Grid Cloud consisting of any generation of TS7700 Synchronous and asynchronous replication Tight integration with IBM Z and DFSMS policy management Optional Transparent Cloud Tiering Optional integration with physical tape Cumulative 16Gb FICON throughput up to 4 8GB s 8 IBM Z hosts view up to 496 8 equivalent devices Grid access to all data independent of where it exists The TS7760T writes data by policy to physical tape through attachment to high capacity high performance IBM TS1150 and IBM TS1140 tape drives installed in an IBM TS4500 or TS3500 tape library The TS7760 models are based on high performance and redundant IBM POWER8 technology They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700

**Parklawn Computer Center User's Guide** Parklawn Computer Center (U.S.),1991 [IBM TS7700 Release 5.2.2 Guide](#) Larry Coyne,Yuki Asakura,Ole Asmussen,Nielson 'Nino' de Carvalho,Derek Erdmann,Monica Falcone,Rin Fujiwara,Nobuhiko Furuya,Lourie Goodall,Joe Hew,Kousei Kawamura,Tony Makepeace,Erich Moraga,Stefan Neff,Tomoaki Ogino,Alberto Barajas Ortiz,Aderson Pacini,Trinidad Armando Rangel Ruiz,Michael Scott,Joe Swingler,Taisei Takai,Nao Takemura,Takahiro Tsuda,Chen Zhu,IBM Redbooks,2022-07-07 This IBM Redbooks publication covers IBM TS7700 R5 2 The IBM TS7700 is part of a family of IBM Enterprise tape products This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation Building on 25 years of experience the R5 2 release includes many features that enable improved performance usability and security Highlights include IBM TS7700 Advanced Object Store an all flash TS7770 grid resiliency enhancements and Logical WORM retention By using the same hierarchical storage techniques the TS7700 TS7770 and TS7760 can also off load to object storage Because object storage is cloud based and accessible from different regions the TS7700 Cloud Storage Tier support essentially allows the cloud to be

an extension of the grid As of this writing the TS7700C supports the ability to off load to IBM Cloud Object Storage Amazon S3 and RSTOR This publication explains features and concepts that are specific to the IBM TS7700 as of release R5 2 The R5 2 microcode level provides IBM TS7700 Cloud Storage Tier enhancements IBM DS8000 Object Storage enhancements Management Interface dual control security and other smaller enhancements The R5 2 microcode level can be installed on the IBM TS7770 and IBM TS7760 models only Note The latest Release 5 2 was split into two phases R5 2 Phase 1 also referred to as and R5 2 Phase 2 and R TS7700 provides tape virtualization for the IBM z environment Off loading to physical tape behind a TS7700 is used by hundreds of organizations around the world Tape virtualization can help satisfy the following requirements in a data processing environment New and existing capabilities of the TS7700 5 2 2 release includes the following highlights Eight way Grid Cloud which consists of up to three generations of TS7700 Synchronous and asynchronous replication of virtual tape and TCT objects Grid access to all logical volume and object data that is independent of where it exists An all flash TS7770 option for improved performance Full Advanced Object Store Grid Cloud support of DS8000 Transparent Cloud Tier Full AES256 encryption for data that is in flight and at rest Tight integration with IBM Z and DFSMS policy management DS8000 Object Store AES256 in flight encryption and compression Regulatory compliance through Logical WORM and LWORM Retention support Cloud Storage Tier support for archive logical volume version and disaster recovery Optional integration with physical tape 16 Gb IBM FICON throughput that exceeds 5 GBps per TS7700 cluster Grid Resiliency Support with Control Unit Initiated Reconfiguration CUIR support IBM Z hosts view up to 3 968 common devices per TS7700 grid TS7770 Cache On demand feature that is based capacity licensing TS7770 support of SSD within the VED server The TS7700T writes data by policy to physical tape through attachment to high capacity high performance IBM TS1160 IBM TS1150 and IBM TS1140 tape drives that are installed in an IBM TS4500 or TS3500 tape library The TS7770 models are based on high performance and redundant IBM POWER9™ technology They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700

**VSAM**

Larry J. Brumbaugh,1993 This comprehensive VSAM tutorial covers all important aspects of VSAM including VSAM s role in some of the most common software products used in the IBM mainframe environment It also includes useful questions and answers for self study ranging from straightforward short answer questions to the analysis and development of theoretical concepts and more

*IBM z/OS V2.1 DFSMS Technical Update* Mary Lovelace,Jose Dovidauskas,Anthony Fletcher,Gert Laumann,Norbert Schlumberger,IBM Redbooks,2014-09-15 Each release of IBM z OS DFSMS builds upon the previous version to provide enhanced storage management data access device support program management and distributed data access for the z OS platform in a system managed storage environment This IBM Redbooks publication provides a summary of the functions and enhancements integrated into z OS V2 1 DFSMS It provides you with the information that you need to understand and evaluate the content of this DFSMS release along with practical implementation hints and tips This book is

written for storage professionals and system programmers who have experience with the components of DFSMS It provides sufficient information so that you can start prioritizing the implementation of new functions and evaluating their applicability in your DFSMS environment

**Mvs Jcl in Plain English** Donna Kelly, Jim Harding, 2002-10-18 JCL is the stuff of nightmares for many programmers and operators This book explains JCL in such a way as to have it make sense This book will help you learn how to tell the IBM MVS mainframe computer how and when to execute your programs To do this you use a language called JCL for Job Control Language You use JCL to tell the mainframe how much memory and other resources your programs will need how long each program should be allowed to run what order to run the programs in where to get the input data where to put the output data and so on JCL controls almost everything related to running programs on MVS If you have a comfortable understanding of ordinary English language and are looking for a quick and easy way to learn JCL this book is for you If you already know a little JCL and what you really want is a handy reference guide to bail you out on commonly occurring problems with JCL youre in luck again this book is for you there too If youre looking for an introduction to some of the more advanced and obscure tricks you might have seen people use in MVS you guessed it this book is for you on that as well How can this book do all that at once Because contrary to its reputation JCL is not particularly difficult it just has esoteric aspects that make it seem difficult if you have nobody to explain things Once explained all seems clear as with most things This book can be used as a reference book there are numerous examples and the index will assist you in finding what you are looking for when you need to find a solution to a problem You can also read the book as an introductory text from start to finish Things are explained in plain ordinary language so even if you have never before seen one line of JCL you should have no trouble with the text and by the time you get halfway through the book people should be starting to see you as an expert probably to your great surprise When you read the book straight through in this way you will come across a lot of obscure but useful information to help you in your routine use of MVS JCL is a language like any other If you travel to an area where you do not speak the language you get a certain amount of satisfaction when you are able to make yourself understood using that language be it to make a phone call or ask for directions or just to ask the price of something The more you use the language the more you feel at ease using it Having good guidebooks saves you a lot of learning time And who doesnt love it when other people start mistaking us for locals and asking us the directions Thats the same sort of feeling youll get the first few times your co workers ask you to help them with their JCL problems and that will start happening a lot sooner than you might think because contrary to appearances most of them dont know much more about it than you do now Thats why they have so much trouble explaining it to you Thats why you want a good book on it now JCL is not generally taught in schools and Universities so people who need to use JCL generally have to learn it on the job For the most part they have a difficult time largely because the people they learn from dont have a good grounding in JCL either Those other people only learned enough to get by when doing a few things they needed to do and those few things may not

be the same things you need to do now So your co workers can be of only limited help to you with learning JCL Whether your job is programming operations or anything else whatever your reason for wanting to learn JCL this book is designed to help you It will help you learn JCL in the first place and thereafter it will be a useful reference you can keep coming back to like an old friend to help you out when you get into trouble *IBM TS7700 Release 3.3* Larry Coyne,Robert Beiderbeck,Katja Denefleh,Joe Hew,Sosuke Matsui,Aderson Pacini,Markus Schäfer,Michael Scott,Chen Zhu,IBM Redbooks,2017-04-11 Note The IBM TS7700 Release 4 0 Guide SG24 8366 is available at <http://www.redbooks.ibm.com/abstracts/sg248366.html> IBM TS7700 is a family of mainframe virtual tape solutions that optimize data protection and business continuance for IBM z Systems™ data Through the use of virtualization and disk cache the TS7700 family operates at disk speeds while maintaining compatibility with existing tape operations Its fully integrated tiered storage hierarchy takes advantage of both disk and tape technologies to deliver performance for active data and best economics for inactive and archive data This IBM Redbooks publication describes the TS7700 R3 3 architecture planning migration implementation and operations The latest TS7700 family of z Systems tape virtualization is offered as two models IBM TS7720 features encryption capable high capacity cache that uses 3 TB SAS disk drives with RAID 6 which can scale to large capacities with the highest level of data protection IBM TS7740 features encryption capable 600 GB SAS drives with RAID 6 protection Both models write data by policy to physical tape through attachment to high capacity high performance IBM TS1150 and earlier IBM 3592 model tape drives that are installed in IBM TS3500 tape libraries Physical tape support is optional on TS7720 TS7700 R3 3 also supports external key management for disk based encryption by using IBM Security Key Lifecycle Manager This book intended for system architects who want to integrate their storage systems for smoother operation *IBM 370 Assembly Language with ASSIST, Structured Concepts, and Advanced Topics* Charles J. Kacmar,1988 **Reduce Risk and Improve Security on IBM Mainframes: Volume 3 Mainframe Subsystem and Application Security** Axel Buecker,Marcela Kanke,Mohit Mohanan,Vinicius Oliveira,Vinodkumar Ramalingam,David Rowley,Botrous Thalouth,Jan Thielmann,IBM Redbooks,2015-11-02 This IBM Redbooks publication documents the strength and value of the IBM security strategy with IBM z™ Systems hardware and software In an age of increasing security consciousness and more and more dangerous advanced persistent threats IBM z Systems™ provides the capabilities to address the needs of today's business security challenges This publication explores how z Systems hardware is designed to provide integrity process isolation and cryptographic capability to help address security requirements We highlight the features of IBM z OS and other operating systems which offer a variety of customizable security elements We discuss z OS and other operating systems and additional software that use the building blocks of z Systems hardware to provide solutions to business security needs We also explore the perspective from the view of an enterprise security architect and how a modern mainframe has to fit into an overarching enterprise security architecture This book is part of a three volume series that focuses on guiding principles for optimized

mainframe security configuration within a holistic enterprise security architecture The series intended audience includes enterprise security architects planners and managers who are interested in exploring how the security design and features of z Systems the z OS operating system and associated software address current issues such as data encryption authentication authorization network security auditing ease of security administration and monitoring

**IBM Mainframe Programmer's Desk Reference** V. Mitra Gopaul,1994 The essential one stop reference for all IBM mainframe application developers and programmers This easy to use guide collects all the information a programmer needs on IBM mainframe software products programmers utilities and computer languages and organizes it for fast information retrieval Covers virtually all functions commands and syntax of the most widely used software and languages [Automated Data Systems Manual](#) ,1989

**The IBM COBOL Environment** Robert T. Grauer,1984

**Everything You Always Wanted to Know about IDCAMS But Were Afraid to Ask** Keith Winnard,Stephen M. Branch,IBM Redbooks,2016-10-07 This IBM Redpaper™ publication is different from others you have read because it was not written in the conventional way with a residency and a handful of authors It was written by people who want to make a difference The IBM Redbooks organization and SHARE teamed up to give all of the attendees at the SHARE 2016 conference that was held in Atlanta US July 31 August 5 the opportunity to contribute their thoughts and ideas about the latest IDCAMS capabilities Attendees were invited to contribute their thoughts and ideas Many discussions arose on the subject and related techniques This Redpaper publication is the result of the following activities The Everything You Wanted To Know About IDCAMS But Were Afraid To Ask session that was held on Wednesday at 8 30 AM Techtalk sessions at the SHARE booth Discussions at the IBM Redbooks publications booth Discussions that were held at the SHARE booth Influence area Discussions in coffee lounges This Redpaper publication features the following chapters Chapter 1 Live at SHARE Innovation through collaboration on page 1 describes how the event went from idea to completion Chapter 2 Introduction to IDCAMS on page 5 presents a basic overview of IDCAMS Chapter 3 Your mission on page 13 guides you through a provisioning scenario that uses IDCAMS On behalf of everyone who took part in this project we hope you enjoy the collective thoughts of many people who were so willing to help to increase your expertise

*CICS Command Level Programming* Alida Jatich,1991-05-28 This Second Edition includes all relevant information regarding IBM s latest major update releases of CICS Using a step by step tutorial it shows how to develop and maintain CICS code for maximum system effectiveness Coverage includes all commands support functions and VS COBOL II detailed information on using the first microcomputer OS 2 version of CICS and table setup and system utilities for applications programmers developing software on personal computers By providing a wealth of real world examples teaches readers a practical streamlined approach to problem solving using the latest CICS coding techniques

**FOCUS for IBM Mainframe** ,1990 FOCUS is a complete information control system with comprehensive features for entering maintaining retrieving and analyzing data It is designed for use both by users with no formal training in data processing and by data



processing professionals who need powerful tools for developing complete applications Volume 1 describes how to use the basic FOCUS facilities and describes more complex tools for building applications

*How Walmart Became a Cloud Services Provider with IBM CICS* Jennifer Foley,Randy Frerking,Mark Hollands,Rich Jackson,Kellie Mathis,Phil Wakelin,Matthew Webster,IBM Redbooks,2016-04-22

The world has changed With the new cloud options enterprises no longer must rely on only their IT organization to meet their computing needs Business units now have options that were not available just a few years ago They can get some of their needs met by traditional IT processes and reach out to a cloud provider to meet other needs The concern is that if you working in a traditional IT organization do not meet these needs someone else will This IBM Redbooks publication helps you to understand the benefits of becoming your own cloud service provider It describes a simple approach that allows you to be successful The main focus of the book is lessons learned from the implementation by an IBM client Walmart Stores Inc that achieved impressive results in their efforts to become their own cloud service provider to their developer community In this way Walmart successfully made z Systems a relevant part of their Hybrid Cloud strategy Walmart embarked on this journey to help their application developers achieve results that were previously time consuming and difficult to deliver In the process they realized that they had everything that they needed to become a services provider to their developer community This book describes the choices that Walmart made and explains the steps they took to be successful The goal of the book is not to imply that the only way to achieve success is by following Walmart s process exactly Rather this book allows you to use the same basic constructs but choose implementation details that fit your environment so that you can achieve success on your own terms With IBM CICS Transaction Server TS for z OS you also have the resources for a successful transition to becoming your own cloud service provider IBM Design Thinking is a methodology that is used by designers to solve complex problems by focusing on individual user roles This book is organized from the viewpoint of these roles in the IT organization It provides guidance in the following areas What does the line of business expect from a cloud service What topology and high availability characteristics does the system programmer need What unique facilities does IBM CICS provide to the service developer How does a developer discover and consume services in an application How does the operations team manage the service in production One of the services that Walmart built and how the decisions made by each job role affected the overall outcome of the service are used as an example throughout this book It shares the experience of the team that created this and other business critical cloud services that are all hosted in CICS Comments from Walmart IT leaders that were captured during the authoring process are presented to emphasize why the company adopted cloud and how cloud has helped Walmart to achieve success Developers understand the risk protection that IT groups provide They also understand that waiting to move applications to production or for a service to be provisioned compromises the agile environment required by today s businesses This book is intended for enterprise service providers looking to enable their developers to increase the speed at which functionality is delivered to the business For

more information about creating IBM z OS cloud services see Creating IBM z OS Cloud Services SG24 8324 [Argonne Computing Newsletter](#) ,1991      **Structured Assembler Language for IBM Computers** Alton R. Kindred,1987 For courses on IBM 360 370 Assembly Language Kindred offers extensive use of structured programming at the assembly language level The continuity of examples using the same data provides a consistent theme Programs begin with simple character operations and gradually move on to more advanced topics Abundant laboratory assignments are included in the text itself no additional manual is required File creation and processing are covered with indexed sequential and VSAM files A complete set of sample programs for each chapter allows students to see fully developed models      [Computerworld](#) ,1980-06-16 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

## Embracing the Beat of Term: An Psychological Symphony within **Ibm Idcams Manual**

In some sort of consumed by monitors and the ceaseless chatter of instant interaction, the melodic elegance and emotional symphony created by the published term frequently fade in to the backdrop, eclipsed by the constant noise and distractions that permeate our lives. However, set within the pages of **Ibm Idcams Manual** an enchanting fictional prize filled with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this fascinating masterpiece conducts viewers on an emotional trip, well unraveling the concealed songs and profound influence resonating within each carefully constructed phrase. Within the depths with this emotional review, we will examine the book is key harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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