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# Jcl Reference Guide

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VSAM  
Demystified IBM  
Redbooks  
This IBM®  
Redpaper™  
publication shows  
you how to speed  
up batch jobs by

splitting them into  
near-identical  
instances  
(sometimes  
referred to as ). It  
is a practical  
guide, which is  
based on the  
authors' testing  
experiences with a  
batch job that is  
similar to those  
jobs that are found  
in customer  
applications. This  
guide documents  
the issues that the  
team encountered  
and how the  
issues were  
resolved. The final  
tuned  
implementation  
produced better  
results than the  
initial traditional  
implementation.  
Because job  
splitting often  
requires

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application code changes, this guide includes a description of some aspects of application modernization you might consider if you must modify your application. The authors mirror the intended audience for this paper because they are specialists in IBM DB2®, IBM Tivoli® Workload Scheduler for z/OS®, and z/OS batch performance. Parklawn Computer Center User 's Guide Copyright Office, Library of Congress 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

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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  
**Subject Index of the Modern**

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**Works Added to the British Museum Library** O ELO FORTE This IBM® Redbooks® publication describes changes in installation and migration when migrating from a current z/OS® V1R10 and z/OS V1R11 to z/OS V1R12. Also described are tasks to prepare for the installation of z/OS V1R12, including ensuring that driving system and target system requirements are met, and coexistence requirements are satisfied. New migration actions are introduced in z/OS V1R12. This book focuses on identifying some of the new migration actions that must be performed for selected elements when migrating to z/OS V1R12. This book describes the following enhancements: z/OS V1R12 installation, HiperDispatch, System Logger, Auto-reply to WTORs, Real Storage Manager (RSM) DFSMS, DFSORT, Services aids, z/OS Infoprint Server, TSO/E, RMFTM, Language Environment®, BCP allocation XML System Services, z/OS UNIX® System Services, BCP supervisor, Extended Address Volumes HyperSwap®, BCPii, (de)ciphering

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, Predictive Failure Analysis, C language, Hardware instrumentation services FICON® dynamic channel-path management, Workload Manager, SDSF, JES2, JES3, SMF, GRS, XCF, HCD Unicode, Capacity provisioning, RRS, Parallel subsystems initialization z/OS Management Facility (z/OSMF)  
**IBM z/OS V2R2: JES2, JES3, and SDSF MVS/JCL MVS/JCL Quick**

Reference Guide  
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

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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. MVS/JCL Quick Reference Guide McGraw-Hill Companies MVS/JCL MVS/JCL Quick Reference Guide\* A Wiley-QED Publication MVS/extended Architecture JCL User's Guide IBM Redbooks

Virtual Storage Access Method (VSAM) is one of the access methods used to process data. Many of us have used VSAM and work with VSAM data sets daily, but exactly how it works and why we use it instead of another access method is a mystery. This book helps to demystify VSAM and gives you the information necessary to understand, evaluate, and use VSAM properly. This book also builds upon the subject of Record Level Sharing and DFSMSStvs. It clarifies VSAM functions for application programmers who work with VSAM. The practical, straightforward approach should dispel much of the complexity associated

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with VSAM. Wherever possible an example is used to reinforce a description of a VSAM function. This IBM® Redbooks® publication is intended as a supplement to existing product manuals. It is intended to be used as an initial point of reference for VSAM functions. z/OS Version 2 Release 1 Technical Updates Xlibris Corporation MVS/ESA is a relatively new IBM system released in June, 1989, and this unique book focuses on the more complex and challenging aspects of MVS JCL, with thorough explanations of what to do and

what not to do. Using a real-world approach, it addresses problems as they occur in a real environment. Translation Title List and Cross Reference Guide Prentice Hall Professional Completely indexed for fast access this handy pocket reference eliminates searching through endless pages of documentation to find the command, code, function or statement you need. Each listing shows by example correct usage and syntax. Covers coding catalog

procedures, new and changed ESA JCL, ESA JCL Rel. 4 examples, COND, SMS JCL models and much more. Catalog of Copyright Entries. Third Series IBM Redbooks This IBM Redbooks publication provides information to help Systems Programmers plan for merging systems into a sysplex. zSeries systems are highly flexible systems capable of processing many workloads. As a result, there are many things to consider when merging

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independent systems into the more closely integrated environment of a sysplex. This book will help you identify these issues in advance and thereby ensure a successful project. OS/390 MVS JCL Quick Reference Guide IBM Redbooks 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:



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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.

[ABCs of IBM z/OS System Programming](#)  
IBM Redbooks  
This book deals with the migration from JES3 to JES2. Part One describes this decision. Part Two describes the steps and considerations of this migration.  
This IBM® Redbooks® publication provides information to help clients that

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have JES3 and would like to migrate to JES2. It provides a comprehensive list of the differences between the two job entry subsystems and provides information to help you determine the migration effort and actions. The book is aimed at operations personnel, system programmers, and application developers.

VS Pascal McGraw-Hill

The ABCs of IBM z/OS® System Programming is a 13-volume collection that

provides an introduction to the z/OS operating system and the hardware architecture. Whether you are a beginner or an experienced system programmer, the ABCs collection provides the information that you need to start your research into z/OS and related subjects. The ABCs collection serves as a powerful technical tool to help you become more familiar with z/OS in your current environment, or to help you evaluate platforms to consolidate your e-business applications. This edition is updated to

z/OS Version 2 Release 3. The other volumes contain the following content:

Volume 1: Introduction to z/OS and storage concepts, TSO/E, ISPF, JCL, SDSF, and z/OS delivery and installation

Volume 2: z/OS implementation and daily maintenance, defining subsystems, IBM Job Entry Subsystem 2 (JES2) and JES3, link pack area (LPA), LNKLST, authorized libraries, System Modification Program Extended (SMP/E), IBM Language Environment

Volume 4: Communication Server, TCP/IP,

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and IBM VTAM® Printing in a z/OS IBM TS7700 R5.2. Volume 5: Base and environment, The IBM TS7700 is part of a family of IBM Parallel Infoprint Server, IBM Enterprise tape Sysplex®, System and Infoprint products. This book is intended for Logger, Resource Central Volume 8: system architects Recovery Services An introduction to and storage (RRS), global z/OS problem diagnosis Volume 9: resource serialization (GRS), z/OS UNIX System administrators who z/OS system Services Volume 10: want to integrate operations, Introduction to IBM their storage systems automatic restart z/Architecture®, for optimal manager (ARM), the IBM Z platform, operation. Building IBM Geographically IBM Z connectivity, on 25 years of Dispersed Parallel LPAR concepts, experience, the R5.2 Sysplex™ (IBM HCD, and DS release includes GDPS) Volume 6: Storage Solution. many features that Introduction to Volume 11: enable improved security, IBM Capacity planning, performance, RACF®, Digital management, usability, and certificates and PKI, WLM, IBM security. Highlights Kerberos, IBM include IBM cryptography and RMFTM, and SMF TS7700 Advanced z990 integrated Volume 12: WLM Object Store, an all cryptography, Volume 13: JES3, flash TS7770, grid zSeries firewall JES3 SDSF resiliency technologies, LDAP, IBM Redbooks enhancements, and and Enterprise This IBM® Logical WORM Identity Mapping Redbooks® retention. By using (EIM) Volume 7: publication covers the same

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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

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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.  
MVS/JCL IBM  
Redbooks  
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 to tell the  
IBM MVS  
mainframe

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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

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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

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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 don't 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. Subject Index of the Modern Works Added to the Library of the British Museum in the Years ... IBM Redbooks The ABCs of IBM® z/OS® System Programming is a 13-volume collection that provides an introduction to the

z/OS operating system and the hardware architecture. Whether you are a beginner or an experienced system programmer, the ABCs collection provides the information that you need to start your research into z/OS and related subjects. Whether you want to become more familiar with z/OS in your current environment, or you are evaluating platforms to consolidate your online business applications, the ABCs collection will serve as a powerful technical tool. Volume 1 provides an updated understanding of the software and IBM zSeries architecture, and explains how it is used together with the z/OS operating



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system. This includes the main components of z/OS needed to customize and install the z/OS operating system. This edition has been significantly updated and revised.

[z/OS Version 1 Release 11 Implementation](#)  
IBM Redbooks  
PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE

[JES3 to JES2 Migration Considerations](#)  
IBM Redbooks  
The ABCs of IBM® z/OS® System Programming is a 13-volume collection that provides an introduction to the

z/OS operating system and the hardware architecture. Whether you are a beginner or an experienced system programmer, the ABCs collection provides the information that you need to start your research into z/OS and related subjects. If you want to become more familiar with z/OS in your current environment or if you are evaluating platforms to consolidate your e-business applications, the ABCs collection can serve as a powerful technical

tool. This volume describes the basic system programming activities related to implementing and maintaining the z/OS installation and provides details about the modules that are used to manage jobs and data. It covers the following topics: Overview of the parmlib definitions and the IPL process. The parameters and system data sets necessary to IPL and run a z/OS operating system are described, along with the main daily tasks for maximizing

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performance of the z/OS system. Basic concepts related to subsystems and subsystem interface and how to use the subsystem services that are provided by IBM subsystems. Job management in the z/OS system using the JES2 and JES3 job entry subsystems. It provides a detailed discussion about how JES2 and JES3 are used to receive jobs into the operating system, schedule them for processing by z/OS, and control their output

processing. The link pack area (LPA), LNKLST, authorized libraries, and the role of VLF and LLA components. An overview of SMP/E for z/OS. An overview of IBM Language Environment® architecture and descriptions of Language Environment's full program model, callable services, storage management model, and debug information. Other volumes in this series include the following content:  
Volume 1: Introduction to z/OS and storage

concepts, TSO/E, ISPF, JCL, SDSF, and z/OS delivery and installation  
Volume 3: Introduction to DFSMS, data set basics, storage management, hardware and software, catalogs, and DFSMStvs  
Volume 4: Communication Server, TCP/IP, and IBM VTAM®  
Volume 5: Base and IBM Parallel Sysplex®, System Logger, Resource Recovery Services (RRS), global resource serialization (GRS), z/OS system operations, automatic restart

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management (ARM), IBM Geographically Dispersed Parallel Sysplex™ (IBM GDPS®) Volume 6: Introduction to security, IBM RACF®, Digital certificates and PKI, Kerberos, cryptography and z990 integrated cryptography, zSeries firewall technologies, LDAP, and Enterprise Identity Mapping (EIM) Volume 7: Printing in a z/OS environment, Infoprint Server, and Infoprint Central Volume 8: An introduction to z/OS problem diagnosis Volume

9: z/OS UNIX System Services Volume 10: Introduction to IBM z/Architecture®, the IBM Z platform and IBM Z connectivity, LPAR concepts, HCD, and the DS Storage Solution Volume 11: Capacity planning, performance management, WLM, IBM RMFTM, and SMF Volume 12: WLM Volume 13: JES3, JES3 SDSF Expert MVS/ESA JCL IBM Redbooks This IBM® Redbooks® publication provides a broad

understanding of the changes, new features, and new functions introduced with IBM z/OS® Version 2 Release 1 (2.1). This new version marks a new era of z/OS. Version 2 lays the groundwork for the next tier of mainframe computing, enabling you to pursue the innovation to drive highly scalable workloads, including private clouds, support for mobile and social applications, and more. Its unrivaled security infrastructure helps secure vast

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amounts of data. Its analytics and the highly optimized availability can help you deliver new data analytics solutions. And its continued improvements in management help automate the operations of IBM zEnterprise® systems. With support for IBM zEnterprise EC12 (zEC12, Enterprise Class) and zEnterprise BC12 (zBC12, Business Class) systems, z/OS 2.1 offers unmatched availability, scalability, and security to meet the business challenges of cloud services and data

security demands of mobile and social network applications. Through its unique design and qualities of service, z/OS provides the foundation that you need to support these demanding workloads alongside your traditional mission-critical applications. WinterShare 2014 presentation This presentation on z/OS V2.1 (June 2014) represents an update to the WinterShare 2014 presentation and reflects z/OS enhancements

delivered since general availability last Fall. Please listen to John Eells of our Technical Strategy team present this one-hour comprehensive technical overview of z/OS V2.1. [Audio Presentation \(59MB\)](#) [Corresponding charts](#) [Merging Systems into a Sysplex MVS Training](#) Each release of data facility storage management subsystem (DFSMS) builds upon the previous version to provide enhanced storage management, data access, device support, program

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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 in z/OS V1R11 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. Also included are enhancements that were made available through an enabling PTF that has been integrated into z/OS DFSMS

V1R11. This book was 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. [ABCs of IBM z/OS System Programming](#) IBM Redbooks This IBM® Redbooks® publication positions the new z/OS® Version 1 Release 11 for

migration by discussing many of the new functions that are available. The goal for the z/OS platform is to eliminate, automate, and simplify tasks without sacrificing z/OS strengths, and to deliver a z/OS management facility that is easy to learn and use. z/OS is a highly secure, scalable, high-performance enterprise operating system on which to build and deploy Internet- and Java™-enabled applications, providing a comprehensive

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and diverse application execution environment. This books describes the following new and changed functions:

- IBM z/OS Management Facility - Allocation enhancements in z/OS V1R11 - BCPii function enhancements in z/OS V1R11 - JES2 and JES3 enhancements - zFS file sharing enhancements - Extended access volume enhancements - Choosing whether to run zAAP work on zIIP processors
- System REXX enhancements in V1R11 - RRS global panel options - Service aids enhancements in V1R11 - GRS ENQ contention notification enhancements and analysis for GRS latches - Basic HyperSwap® support enhancement - Message Flood Automation enhancements - Program Management new Binder IEWPARMS - Predictive failure analysis (PFA) - SMF enhancements in V1R11 - System Logger enhancements - XCF/XES enhancements in V1R11 - AutoIPL support - Displaying PDSE caching statistics - ISPF enhancements - IBM Health Checker for z/OS enhancements