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DFSORT

Application Programming Guide

DFSORT

Application Programming: Guide : Release 10

DFSORT Application Programming Guide : Release 11.1

DB2 Universal Database for OS/390 V7.1 Application Certification Guide

Prentice Hall Professional IBM's definitive DB2 UDB V7.1 application development reference and exam study guide for the OS/390 and z/OS platforms An official IBM

self-study guide for the DB2 UDB V7.1 Family Application Development Exam (#514) Expert DB2 programming tips, techniques, and guidelines from application development experts Covers data structures, SQL, stored procedures, programming/language environments, debugging, tuning, and more CD-ROM contains complete DB2 application development sample exam The definitive, authoritative guide to DB2 OS/390 application development certification Covers data structures, SQL, stored procedures, programming/language environments, debugging, tuning, and much more Includes a full section on object-relational programming and other advanced techniques Sample test questions help you prepare for the IBM DB2 UDB V7.1 Family Application Development Exam (#514) About the CD The CD-ROM included with this book contains a complete DB2 UDB V7.1 Family Application Development Exam (#514) sample exam. IBM DB2 UDB Version 7.1 for OS/390 and z/OS delivers unparalleled performance, scalability, and reliability in today's enterprise business environments. Now, there's a complete, authoritative guide to developing applications with DB2 UDB V7.1 in both OS/390 and z/OS environments--and preparing for the IBM DB2 UDB V7.1 Family Application Development Exam (#514). This comprehensive day-to-day guide to DB2 UDB application development is also the only book that delivers the depth of knowledge professionals need to pass IBM's challenging application development exam for the OS/390 and z/OS platforms. IBM Gold Consultant Susan Lawson presents hundreds of useful tips, practical techniques, and expert guidelines for every facet of DB2 UDB application development and every stage of the development process for both OS/390 and z/OS platforms Coverage includes: Foundations for effective DB2 development, including an overview of the DB2 UDB product family and DB2 for OS/390 data structures SQL: basic concepts and coding techniques through advanced OLAP features, star schemas, and star joins Stored procedures, including the SQL procedure language and IBM's Stored Procedure Builder Best practices for application testing, debugging, and performance tuning The full range of DB2 development tools, including ODBC/CLI, Java(tm), COBOL, C, C++, REXX, CAF, CICS, and RRSF Object-relational programming, including user-defined functions, user-defined data types, and triggers In-depth coverage of locking and concurrency Whether you're developing for DB2 UDB V7.1 in an OS/390 or z/OS environment, managing DB2 UDB V7.1 application development, preparing for DB2 UDB V7.1 Family Application Development, or all three, DB2 UDB for OS/390 Version 7.1 Application Certification Guide will be your single most valuable resource. IBM DB2 Series

DB2 Developer's Guide

A Solutions-Oriented Approach to

Learning the Foundation and Capabilities of DB2 for z/OS

IBM Press DB2 Developer's Guide is the field's #1 go-to source for on-the-job information on programming and administering DB2 on IBM z/OS mainframes. Now, three-time IBM Information Champion Craig S. Mullins has thoroughly updated this classic for DB2 v9 and v10. Mullins fully covers new DB2 innovations including temporal database support; hashing; universal tablespaces; pureXML; performance, security and governance improvements; new data types, and much more. Using current versions of DB2 for z/OS, readers will learn how to: * Build better databases and applications for CICS, IMS, batch, CAF, and RRSAF * Write proficient, code-optimized DB2 SQL * Implement efficient dynamic and static SQL applications * Use binding and rebinding to optimize applications * Efficiently create, administer, and manage DB2 databases and applications * Design, build, and populate efficient DB2 database structures for online, batch, and data warehousing * Improve the performance of DB2 subsystems, databases, utilities, programs, and SQL stat DB2 Developer's Guide, Sixth Edition builds on the unique approach that has made previous editions so valuable. It combines: * Condensed, easy-to-read coverage of all essential topics: information otherwise scattered through dozens of documents * Detailed discussions of crucial details within each topic * Expert, field-tested implementation advice * Sensible examples

z/OS Version 2 Release 1 Technical Updates

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 amounts of data. Its 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 analytics and the 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

ABCs of IBM z/OS System Programming

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. 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, 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 manager (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, IBM Z connectivity, LPAR concepts, HCD, and DS Storage Solution. Volume 11: Capacity planning, performance management, WLM, IBM RMFTM, and SMF Volume 12: WLM Volume 13: JES3, JES3 SDSF

Optimizing System z Batch Applications by Exploiting Parallelism

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 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.

VS COBOL II Application Programming

Debugging

DB2 Universal Database for OS/390 Version 7.1 Certification Guide

Prentice Hall Professional PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE

DB2 9 for z/OS: Using the Utilities Suite

IBM Redbooks IBM® continues to enhance the functionality, performance, availability, and ease of use of IBM DB2® utilities. This IBM Redbooks® publication is the result of a project dedicated to the current DB2 Version 9 Utilities Suite product. It provides information about introducing the functions that help set up and invoke the utilities in operational scenarios, shows how to optimize concurrent execution of utilities and collect information for triggering utilities execution, and provides considerations about partitioning. It also describes the new functions provided by several utilities for SHARE LEVEL CHANGE execution, which maximize availability and the exploitation of DFSMS constructs by the BACKUP and RESTORE SYSTEM utilities. This book concentrates on the enhancements provided by DB2 UDB for z/OS Version 8 and DB2 for z/OS Version 9. It implicitly assumes a basic level of familiarity with the utilities provided by DB2 for z/OS and OS/390® Version 7.

Mainframe Basics for Security Professionals

Getting Started with RACF

Pearson Education Leverage Your Security Expertise in IBM® System z™ Mainframe Environments For over 40 years, the IBM mainframe has been the backbone of the world's largest enterprises. If you're coming to the IBM System z mainframe platform from UNIX®, Linux®, or Windows®, you need practical guidance on leveraging its unique security capabilities. Now, IBM experts have written the first authoritative book on mainframe security specifically designed to build on your experience in other environments. Even if you've never logged onto a mainframe before, this book will teach you how to run today's z/OS® operating system command line and ISPF toolset and use them to efficiently perform every significant security administration task. Don't have a mainframe available for practice? The book contains step-by-step videos walking you through dozens of key techniques. Simply log in and register your book at www.ibmpressbooks.com/register to gain access to these videos. The authors illuminate the mainframe's security model and call special attention to z/OS security techniques that differ from UNIX, Linux, and Windows. They thoroughly introduce IBM's powerful Resource Access Control Facility (RACF) security subsystem and demonstrate how mainframe security integrates into your enterprise-wide IT security infrastructure. If you're an experienced system administrator or security professional, there's no faster way to extend your expertise into "big iron" environments. Coverage includes Mainframe basics: logging on, allocating and editing data sets, running JCL jobs, using UNIX System Services, and accessing documentation Creating, modifying, and deleting users and groups Protecting data sets, UNIX file system files, databases, transactions, and other resources Manipulating profiles and managing permissions Configuring the mainframe to log security events, filter them appropriately, and create usable reports Using auditing tools to capture static configuration data and dynamic events, identify weaknesses, and remedy them Creating limited-authority administrators: how, when, and why

MVS/VSAM for the Application Programmer

QED Information Sciences Brown and Smith bring your knowledge of VSAM up-to-date. This manual covers all of the many recent changes to VSAM. The detailed, clear explanations provide the background you need to understand VSAM. Lots of examples reinforce the text and provide prototypes to help you understand quickly how to code needed functions.

Assembler for COBOL Programmers

MVS, VM

McGraw-Hill Companies

MVS JCL & Utilities

A Comprehensive Treatment

Prentice Hall

VS COBOL II

A Guide for Programmers and Managers

Mike Murach & Associates Incorporated

MVS, JCL, and Utilities

COBOL/370 for Power Programmers

**A Wiley-QED Publication* This is the first book to cover IBM's newest version of COBOL--COBOL 370. Kirk shows programmers how to use this new version of COBOL to develop applications and access a compiler from either a programmable workstation or a mainframe. The book describes a range of techniques and also explores non-COBOL topics such as compile options, JCL, and performance issues.

VS COBOL II.

MVS I/O Subsystems

Configuration Management and Performance Analysis

McGraw-Hill Companies Guidelines for making performance and cost trade-offs in MVS I/O subsystem designs. Readers will find explanations of design alternatives, measurement techniques for identifying problems in existing configurations, and modeling techniques that can be used to analyze the strengths and weaknesses of possible alternatives.

Commercial Software Engineering For Productive Program Design

John Wiley & Sons Incorporated A guide to top-down structured programming that shows how to apply syntax learning and theoretical logic design strategies to everyday programming situations in commercial and business environments. Provides a tool box of design techniques for developing programs that are accurate and easily modified, and offers more than 20 summarized program design templates, standard building blocks from which the majority of business data processing programs are created. These include generic patterns for control break reporting, table loading, internal sorting, sequential add/change/delete up-date, and random access file handling and also includes a reference summary with examples for IBM's new sorting utility, DFSORT; extended examples of both partial key random access to non-IBM random files and to IBM VSAM files; and a comprehensive reference summary with prescriptive actions for all IBM VSAM file status values.

ADY - IEB

Advanced ANSI COBOL with Structured Programming For VS COBOL II and Microsoft Micro Focus COBOL

John Wiley & Sons Incorporated Explains COBOL as it exists in the new ANSI standard. Designed for advanced programmers, it eases the transition from general programming training to the programming done in business applications using COBOL. Through hundreds of practical examples, it explores the intricacies of COBOL without spending a lot of time on basic computer concepts. With an emphasis on cross-system application and development, it describes both IBM's VS COBOL II for the mainframe environment and Microsoft's COBOL for the personal computer.

The MVS Primer Efficient Software Development

with DB2 for OS/390

Organizational and Technical Measures for Performance Optimization

Springer-Verlag Jürgen Glag's book points out how to ensure professional and efficient database software development in DB2 mainframe and client/server environments. The asset of this book is that technical aspects (performance, tuning) and organizational measures (economical performance) are covered. Consequently, this book is suitable particularly for organizations that want to use DB2 in an economical and safe way. Work in various large production systems with DB2 revealed that most performance problems arise either from a certain critical transaction load onwards or for particularly large tables. Many measures can be taken in order to identify and to solve these problems during software development and not, as is often the case, only in production environment. Beyond explaining the causes for performance problems, this book also describes and explains well-proven measures to avoid such problems. The book particularly addresses those persons who are responsible for data processing and quality assurance; project leaders and project managers in the data processing area; and software and application developers. Das Buch von Glag zeigt, wie professionelle und effiziente DB-Anwendungsentwicklung im DB2-Großrechnerbereich und Client/Server-Umfeld sichergestellt werden können. Der Vorzug des Buches ist es, daß sowohl die technischen Aspekte (Performance, Tuning) als auch organisatorische Maßnahmen zur Optimierung (wirtschaftliche Performance) dargestellt werden. Damit eignet sich das Buch insbesondere für den Einsatz in Unternehmen, die DB2 kostengünstig und sicher einsetzen wollen. Bei der Arbeit in mehreren großen produktiven DB2-Umgebungen hat sich gezeigt, daß die meisten Performance-Probleme entweder erst ab einer bestimmten kritischen Transaktionslast oder bei besonders umfangreichen Tabellengrößen auftreten. Um diese Probleme nicht erst in der Produktionsumgebung, sondern bereits während der Softwareentwicklung erkennen und lösen zu können, sind eine Reihe von Maßnahmen

System Programmer's Guide to Z/OS System Logger

IBM.Com/Redbooks

Computing Resources of the Division of Computer Research and Technology

Effiziente Softwareentwicklung mit DB2/MVS

Organisatorische und technische Maßnahmen zur Optimierung der Performance

Springer-Verlag Das Buch von Glag zeigt, wie professionelle und effiziente DB-Anwendungsentwicklung im DB2-Großrechnerbereich und Client/Server-Umfeld sichergestellt werden können. Der Vorzug des Buches ist es, daß sowohl die technischen Aspekte (Performance, Tuning) als auch organisatorische Maßnahmen zur Optimierung (wirtschaftliche Performance) dargestellt werden. Damit eignet sich das Buch insbesondere für den Einsatz in Unternehmen, die DB2 kostengünstig und sicher einsetzen wollen. Bei der Arbeit in mehreren großen produktiven DB2-Umgebungen hat sich gezeigt, daß die meisten Performance-Probleme entweder erst ab einer bestimmten kritischen Transaktionslast oder bei besonders umfangreichen Tabellengrößen auftreten. Um diese Probleme nicht erst in der Produktionsumgebung, sondern bereits während der Softwareentwicklung erkennen und lösen zu können, sind eine Reihe von Maßnahmen zu ergreifen. In diesem Buch werden nicht nur die Ursachen von Performanceproblemen erläutert, sondern auch praxiserprobte begleitende Maßnahmen zur Vermeidung aufgezeigt und erläutert. Das Buch richtet sich insbesondere an Verantwortliche für DV und Qualitätssicherung, Projektleiter und Projektmanager im DV-Bereich, Software- und Anwendungsentwickler.

OSA-Express Implementation Guide

IBM Redbooks This IBM® Redbooks® publication will help you to install, tailor, and configure the Open Systems Adapter (OSA) features that are available on IBM zEnterprise® servers. It focuses on the hardware installation and the software definitions that are necessary to provide connectivity to LAN environments. This information will help you with planning and system setup. This book also includes helpful utilities and commands for monitoring and managing the OSA features. This

information will be helpful to systems engineers, network administrators, and system programmers who plan for and install OSA features. The reader is expected to have a good understanding of IBM System z® hardware, Hardware Configuration Definition (HCD) or the input/output configuration program (IOCP), Open Systems Adapter Support Facility (OSA/SF), Systems Network Architecture/Advanced Peer-to-Peer Networking (SNA/APPN), and TCP/IP protocol.

Introduction to the New Mainframe Z/OS Basics

IBM.Com/Redbooks "This IBM® Redbook provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer. It is the first in a planned series of textbooks designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing. 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, nor is it a reference book that discusses every feature and option of the mainframe facilities. Others who will 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."--Preface, p. xi.

Introduction to the New Mainframe: IBM z/VSE Basics

IBM Redbooks 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

Subsystem and Transaction Monitoring and Tuning with DB2 11 for z/OS

IBM Redbooks This IBM® Redbooks® publication discusses in detail the facilities of DB2® for z/OS®, which allow complete monitoring of a DB2 environment. It focuses on the use of the DB2 instrumentation facility component (IFC) to provide monitoring of DB2 data and events and includes suggestions for related tuning. We discuss the collection of statistics for the verification of performance of the various components of the DB2 system and accounting for tracking the behavior of the applications. We have intentionally omitted considerations for query optimization; they are worth a separate document. Use this book to activate the right traces to help you monitor the performance of your DB2 system and to tune the various aspects of subsystem and application performance.

Introduction to the New Mainframe: z/VM Basics

IBM Redbooks This textbook provides students with the background knowledge and skills necessary to begin using the basic functions and features of z/VM Version 5, Release 3. It is part of a series of textbooks designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing.

For optimal learning, students are assumed to be literate in personal computing and have some computer science or information systems background. Others who will benefit from this textbook include z/OS professionals who would like to expand their knowledge of other aspects of the mainframe computing environment. This course can be used as a prerequisite to understanding Linux on System z. After reading this textbook and working through the exercises, the student will have received a basic understanding of the following topics: The Series z Hardware concept and the history of the mainframe Virtualization technology in general and how it is exploited by z/VM Operating systems that can run as guest systems under z/VM z/VM components The z/VM control program and commands The interactive environment under z/VM, CMS and its commands z/VM planning and administration Implementing the networking capabilities of z/VM Tools to monitor the performance of z/VM systems and guest operating systems The REXX programming language and CMS pipelines Security issues when running z/VM

ABCs of IBM z/OS System Programming

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 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 12 Implementation

IBM Redbooks 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, 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)

VSAM Demystified

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 DFSMStvs. It clarifies VSAM functions for application programmers who work with VSAM. The practical, straightforward approach should dispel much of the complexity associated 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.

Db2 for z/OS Utilities in Practice

IBM Redbooks As IBM® continues to enhance the functionality, performance, and availability of IBM Db2®, the utilities have made significant strides towards self-management. IBM Db2 for z/OS utilities is leading the trend towards autonomics. During the last couple of versions of Db2 for z/OS, and through the maintenance stream, new features and enhancements have been delivered to further improve the performance and functionality of the Db2 utilities. The intent of this IBM Redpaper™ publication is to help Db2 Database Administrators, Db2 System Programmers, and anyone who runs Db2 for z/OS utilities implement best practices. The intent of this paper is not to replicate the Db2 for z/OS Utilities Reference Guide or the Db2 for z/OS Installation Guide. This paper describes and informs you how to apply real-life practical preferred practices for the IBM Db2 for z/OS Utilities Suite. The paper concentrates on the enhancements provided by Db2 utilities, regardless of the version, albeit some functions and features are available only in Db2 12 for IBM z/OS®.

DFSMSrmm Primer

IBM Redbooks DFSMSrmm from IBM® is the full function tape management system available in IBM OS/390® and IBM z/OS®. With DFSMSrmm, you can manage all types of tape media at the shelf, volume, and data set level, simplifying the tasks of your tape librarian. Are you a new DFSMSrmm user? Then, this IBM Redbooks® publication introduces you to the DFSMSrmm basic concepts and functions. You learn

how to manage your tape environment by implementing the DFSMSrmm management policies. Are you already using DFSMSrmm? In that case, this publication provides the most up-to-date information about the new functions and enhancements introduced with the latest release of DFSMSrmm. You will find useful information for implementing these new functions and getting more benefits from DFSMSrmm. Do you want to test DFSMSrmm functions? If you are using another tape management system and are thinking about converting to DFSMSrmm, you can start DFSMSrmm and run it in parallel with your current system for testing purposes. This book is intended to be a starting point for new professionals and a handbook for using the basic DFSMSrmm functions.

ABCs of IBM z/OS System Programming

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DFSMSHsm Fast Replication Technical Guide

IBM Redbooks DFSMSHsm fast replication provides DFSMSHsm management for the use of volume-level fast replication. Fast replication is made possible by using the FlashCopy® capability of storage servers. With this capability, a set of storage groups can be defined as a copy pool. The volumes in this pool are processed collectively creating, by fast replication, backup versions that are managed by DFSMSHsm. Recovery can be performed at the volume or copy pool level. This capability is designed to work specifically with DB2® Version 8 or later. With DFSMSHsm fast replication, the backup and recovery of DB2 copy pools can be managed by DFSMSHsm. DFSMSHsm fast replication provides a quick, easy-to-use backup and recovery solution. This IBM® Redbooks® publication consists of a technical overview of the DFSMSHsm fast replication function in z/OS® V1R12 Data Facility Storage Management Subsystem (DFSMS). It provides you with the information that you need to understand and evaluate the function, with practical implementation hints and tips. This book is written for storage professionals, database administrators, and system programmers who have experience with the components of DFSMS. It provides sufficient information for you to implement the DFSMSHsm fast replication function in your storage environment.