Dfsort Application Programming Guide

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ABCs of IBM z/OS System Programming
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Introduction to the New Mainframe: IBM z/VSE Basics

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Db2 for z/OS Utilities in Practice IBM Redbooks This IBM® RedpaperTM 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. Springer-Verlag

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 update, 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.

MVS/VSAM for the Application Programmer IBM Press 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.
MVS I/O Subsystems IBM Redbooks
The ABCs of IBM® z/OS® System Programming is an 11-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. Following are the contents of the volumes: 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, JES2 and JES3, LPA, LNKLST, authorized libraries, IBM Language Environment®, and SMP/E Volume 3: Introduction to DFSMS, data set basics, storage management hardware and software, VSAM, System-managed storage, 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 management (ARM), and IBM Geographically Dispersed Parallel SysplexTM (IBM GDPS®) Volume 6: Introduction to security, IBM RACF®, digital certificates and public key infrastructure (PKI), Kerberos, cryptography and IBM z9® integrated cryptography, Lightweight Directory Access Protocol (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®, IBM System z® processor design, System z connectivity, logical partition (LPAR) concepts, hardware configuration definition (HCD), and Hardware Management Console (HMC) Volume 11: Capacity planning, performance management, Workload Manager (WLM), IBM Resource Measurement FacilityTM (RMFTM), and System Management Facilities (SMF)

VS COBOL II 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/OSplatforms. 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 RRSAF 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

Optimizing System z Batch Applications by Exploiting Parallelism

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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

The MVS Primer 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.

DFSORT

IBM.Com/Redbooks

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

Mainframe Basics for Security Professionals

IBM Redbooks

PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE

ABCs of IBM z/OS System Programming

Prentice Hall Professional

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

VS COBOL II Application Programming QED Information Sciences 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. *Efficient Software Development with DB2 for OS/390* Springer-Verlag "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.

Effiziente Softwareentwicklung mit DB2/MVS Mike Murach & Associates Incorporated

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.

What is New in DFSMSrmm 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 SysplexTM (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

VSAM Demystified

IBM.Com/Redbooks

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.

MVS JCL & Utilities 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.

DFSORT Application Programming McGraw-Hill Companies

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

Assembler for COBOL Programmers IBM Redbooks

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. *DB2 Developer's Guide* *A Wiley-QED Publication 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

DFSMSrmm Primer

Pearson Education

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.

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