

Dfsort Application Programming Guide

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VS COBOL II Application Programming Springer-Verlag

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.

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

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

VS COBOL II John Wiley & Sons 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 DFSMSStvs. 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 *A Wiley-QED Publication

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.

Optimizing System z Batch Applications by Exploiting Parallelism 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.

MVS JCL & Utilities IBM Redbooks

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.

DB2 Universal Database for OS/390 Version 7.1 Certification Guide IBM Redbooks

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.

z/OS V1.11 DFSMS Release Guide 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.

COBOL/370 for Power Programmers Prentice Hall Professional

PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE

MVS/VSAM for the Application Programmer 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 *Effiziente Softwareentwicklung mit DB2/MVS* IBM Redbooks

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

ABCs of IBM z/OS System Programming IBM Redbooks

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

Springer-Verlag

Significant performance benefits can be realized by increasing the amount of memory that is assigned to various functions in the IBM® z/OS® software stack, operating system, and middleware products. IBM DB2® and IBM MQ buffer pools, dump services, and large page usage are just a few of the functions whose ease of use and performance can be improved when more memory is made available to them. The following benefits can be realized: Reduced I/O operations Reduced CPU usage Improved transaction response time Potential cost reductions Although the magnitude of these improvements can vary widely based on several factors, including potential I/Os to be eliminated, resource contention, workload, configuration, and tuning, clients must carefully consider whether their environment can benefit from the addition of memory to the software functions that are described in this IBM Redpaper™ publication. This paper describes the performance implications of increasing memory in the following areas: DB2 buffer pools DB2 tuning IBM Cognos® Dynamic Cubes MDM with larger DB2 buffer pools Java heaps and Garbage Collection tuning and Java large page use MQ v8 64-bit buffer pool tuning Enabling more in-memory use by IBM CICS® without paging TCP/IP FTP DFSort I/O reduction Fixed pages and fixed large pages

DFSMSrmm Primer IBM Press

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

Benefits of Configuring More Memory in the IBM z/OS Software Stack McGraw-Hill Companies

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.

z/OS Version 1 Release 12 Implementation IBM.Com/Redbooks

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

DFSMSHsm Fast Replication Technical Guide IBM Redbooks

DFSMSrmm is an IBM z/OS feature that is a fully functioning tape management system to manage your removable media. In the last decade, many enhancements were made to DFSMSrmm. This IBM Redbooks publication is intended to help you configure and use the newer functions and features that are now available. Discussion of the new features is included along with use cases. Hints and tips of various common DFSMSrmm problems and useful configuration and reporting JCL also are included. This publication is intended as a supplement to DFSMSrmm Primer, SG24-5983, which is still the recommended starting point for any users new to DFSMSrmm.

Introduction to the New Mainframe: z/VM Basics 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, LNKST, 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 DFSMSStvs 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 Sysplex™ (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 Facility™ (RMFTM), and System Management Facilities (SMF)

ABCs of IBM z/OS System Programming Prentice Hall Professional

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 z™ 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

Efficient Software Development with DB2 for OS/390 IBM Redbooks

Each release of data facility storage management subsystem (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 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.