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## CAREY AIDAN

[CICS/ESA Primer](#) IBM Redbooks

The smart programmer's introduction to CICS gets you off to a clean, clear, quick start if you're new to CICS programming, the last thing you need is a long-winded explanation of every nuance and detail of the system's operation. The first thing you need is the CICS/ESA Primer. It puts your hands on the keyboard quickly—even if you have no previous online experience—and provides loads of diagrams, screen shots, and code, as well as crisp, clear explanations of the basics of CICS programming. In practically no time, you'll learn everything you need to know about: CICS screen design Basic Mapping Support (BMS) Program function keys Debugging techniques File updating Creating a simple menu And that's not all! This is the only introduction that includes an entire section on CICS and client/server technology, the topic that has companies clamoring for CICS-trained programmers. But whether you're working on client/server or mainframe systems, this book helps you master the fundamentals and prepare for more advanced material.

**VSAM Demystified** "O'Reilly Media, Inc."

The term big data refers to extremely large sets of data that are analyzed to reveal insights, such as patterns, trends, and associations. The algorithms that analyze this data to provide these insights must extract value from a wide range of data sources, including business data and live, streaming, social media data. However, the real value of these insights comes from their timeliness. Rapid delivery of insights enables anyone (not only data scientists) to make effective decisions, applying deep intelligence to every enterprise application. Apache Spark is an integrated analytics framework and runtime to accelerate and simplify algorithm development, deployment, and realization of business insight from analytics. Apache Spark on IBM® z/OS® puts the open source engine, augmented with unique differentiated features, built specifically for data science, where big data resides. This IBM Redbooks® publication describes the installation and configuration of IBM z/OS Platform for Apache Spark for field teams and clients. Additionally, it includes examples of business analytics scenarios.

[DB2 for Z/OS](#) Pearson Education

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.

*Year 2000 Mainframe Survival Guide* McGraw-Hill

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

*Getting Started with SCLM* QED Information Sciences

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

[Apache Spark Implementation on IBM z/OS](#) IBM Redbooks

In this IBM® Redbooks® publication, we discuss CICS®, which stands for Customer Information Control System. It is a general-purpose transaction processing subsystem for the z/OS® operating system. CICS provides services for running an application online where, users submit requests to run applications simultaneously. CICS manages sharing resources, the integrity of data, and prioritizes execution with fast response. CICS authorizes users, allocates resources (real storage and cycles), and passes on database requests by the application to the appropriate database manager, such as DB2®. We review the history of CICS and why it was created. We review the CICS architecture and discuss how to create an application in CICS. CICS provides a secure, transactional environment for applications that are written in several languages. We discuss the CICS-supported languages and each language's advantages in this Redbooks publication. We analyze situations from a system programmer's viewpoint, including how the systems programmer can use CICS facilities and services to customize the system, design CICS for recovery, and manage performance. CICS Data access and where the data is stored, including Temporary storage queues, VSAM RLS, DB2, IMSTM, and many others are also discussed.

**z/OS Traditional Application Maintenance and Support** IBM Redbooks

Marketshare for DB2 has been growing steadily over the past 5 years and with the announcement of DB2 Universal Database V8 (T-Rex), the product has never had more momentum. DB2 owns about 30 percent of the database market--the same as Oracle. Not only is the product used in many Fortune 500 companies, but it is becoming very popular in small to medium sized businesses as well. This book provides the reader with a comprehensive reference and research tool for DB2 for the mainframe. Official material is awkwardly written, spans over a dozen manuals in PDF format, and lacks real-world guidance. Author, Craig Mullins, consistently hears from readers of past editions that they rely on this book as their primary reference for DB2. Craig Mullins is constantly being asked when it will support a new release.

### Computerworld IBM Redbooks

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

### Network World IBM Redbooks

This IBM® Redbooks® publication provides information about how you can connect mobile devices to IBM Customer Information Control System (CICS®) Transaction Server (CICS TS), using existing enterprise services already hosted on CICS, or to develop new services supporting new lines of business. This book describes the steps to develop, configure, and deploy a mobile application that connects either directly to CICS TS, or to CICS via IBM Worklight® Server. It also describes the advantages that your organization can realize by using Worklight Server with CICS. In addition, this Redbooks publication provides a broad understanding of the new CICS architecture that enables you to make new and existing mainframe applications available as web services using JavaScript Object Notation (JSON), and provides support for the transformation between JSON and application data. While doing so, we provide information about each resource definition, and its role when CICS handles or makes a request. We also describe how to move your CICS applications, and business, into the mobile space, and how to prepare your CICS environment for the following scenarios: Taking an existing CICS application and exposing it as a JSON web service Creating a new CICS application, based on a JSON schema Using CICS as a JSON client This Redbooks publication provides information about the installation and configuration steps for both Worklight Studio and Worklight Server. Worklight Studio is the Eclipse interface that a developer uses to implement a Worklight native or hybrid mobile application, and can be installed into an Eclipse instance. Worklight Server is where components developed for the server side (written in Worklight Studio), such as adapters and custom server-side authentication logic, run. CICS applications and their associated data constitute some of the most valuable assets owned by an enterprise. Therefore, the protection of these assets is an essential part of any CICS mobile project. This Redbooks publication, after a review of the main mobile security challenges, outlines the options for securing CICS JSON web services, and reviews how products, such as Worklight and IBM DataPower®, can help. It then shows examples of security configurations in CICS and Worklight.

### Getting Started: Journey to Modernization with IBM Z 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

### COBOL IBM Redbooks

Sams Teach Yourself COBOL in 24 Hours teaches the basics of COBOL programming in 24 step-by-step lessons. Each lesson builds on the previous one providing a solid foundation in COBOL programming concepts and techniques. This hands-on guide is the easiest, fastest way to begin creating standard COBOL compliant code. Business professionals and programmers from other languages will find this hands-on, task-oriented tutorial extremely useful for learning the essential features and concepts of COBOL programming. Writing a program can be a complex task. Concentrating on one development tool guides you to good results every time. There will be no programs that will not compile!

### Implementing IBM CICS JSON Web Services for Mobile Applications DB2 for the COBOL Programmer

It's easy to look at the title of a book and think "that's old news" or "I already know all there is to know on that subject." But before you dismiss this publication, consider just how far the IBM® Parallel Sysplex® architecture has come. From the early days the mainframe has embraced a shared everything approach. The

original designers coded IBM z/OS® (called IBM MVSTM or IBM OS/390® back then) with the functionality necessary for the operating system to create the repositories, manage the data flow, and ensure the integrity of the systems involved. From there, the middleware systems provided the exploitation and advanced functions to mature the technology. The component in the middle of all this great technology can easily be taken for granted. That is the IBM Coupling Facility. This IBM Redbooks® publication discusses both traditional uses for the IBM Coupling Facility technology and new ways to use it with products such as IBM CICS®. You can learn how to perform new functions and have these functions benefit from the scalability and availability achieved only in a mainframe ecosystem. Open standards are a large part of considerations today, as most companies run IT shops with a mix of technology components. As the world embraces these technologies, it is necessary to understand how to mix the world of mainframe architectures and products with other open architectures. This mix allows the best tool to be used to solve processing needs, at the right cost and service levels. Often the functions needed for modern processing can be found in house, in places where staff are skilled and that already deliver the robust production environments you count on daily. This book discusses these modern functions and how to achieve them with CICS use of the IBM Coupling Facility. You will learn how one IBM client, Walmart, took these concepts far beyond the original design as they share their experiences and even share code examples to help you get started. The last chapter of this book shows what can be achieved when a combination of old and new functions are use together. Even if you have familiarity with what could be done with the IBM Coupling Facility in the past, there is much to learn and deploy in a modern world. Those who are familiar with the IBM Coupling Facility might find the content of this book helpful. Additionally, readers who are considering how to use the IBM Coupling Facility technology within their environment might also find useful information in the chapters that follow

### IBM Problem Determination Tools for z/OS Murach: Training & Reference

Historically, grief and spirituality have been jealously guarded as uniquely human experiences. Although non-human animal grief has been acknowledged in recent times, its potency has not been recognised as equal to human grief. Anthropocentric philosophical questions still underpin both academic and popular discussions. In *Enter the Animal*, Teya Brooks Pribac examines what we do and don't know about grief and spirituality. She explores the growing body of knowledge about attachment and loss and how they shape the lives of both human and non-human animals. A valuable addition to the vibrant interdisciplinary conversation about animal subjectivity, *Enter the Animal* identifies conceptual and methodological approaches that have contributed to the prejudice against nonhuman animals. It offers a compelling theoretical base for the consideration of grief and spirituality across species and highlights important ethical implications for how humans treat other animals.

### New Ways of Running Batch Applications on z/OS: Volume 4 IBM IMS Pearson Education India

Mainframe computers play a central role in the daily operations of many of the world's largest corporations. Batch processing is still a fundamental, mission-critical component of the workloads that run on the mainframe. A large portion of the workload on IBM® z/OS® systems is processed in batch mode. This IBM Redbooks® publication is the fourth volume in a series of four. They address new technologies introduced by IBM to facilitate the use of hybrid batch applications that combine the best aspects of Java and procedural programming languages such as COBOL. This volume focuses on the latest enhancements in IBM IMSTM batch support. IMS has been available to clients for 45 years as IMS Transaction Manager, IMS Database Manager, or both. The audience for this book includes IT architects and application developers with a focus on batch processing on the z/OS platform.

### Enter the Animal Mike Murach & Associates

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. 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 material, and can include topics not covered in this textbook. This book is also offered with a textbook cover instead of a redbook cover in PDF and hardcopy formats. Download PDF of book with textbook cover (6.0MB) Order hardcopy of book with textbook cover Note: The contents of the book are identical in both the textbook and redbook versions except for the covers.

### Introduction to the New Mainframe IBM Redbooks

Annotation Covers the latest versions of CICS (including CICS Transaction Server) so that beginners can learn current coding practices from the start. Six beginning chapters show how to develop CICS programs, and later chapters present CICS commands and techniques used regularly, commands and techniques for file and database processing, and code necessary for maintaining older programs.

### Murach's CICS for the COBOL Programmer IBM Redbooks

If you are looking for a practical DB2 book that focuses on application programming, this is the book for you. Written from the programmer's point of view, it will quickly teach you what you need to know to access and process DB2 data in your COBOL programs using embedded SQL. This second edition has been thoroughly updated and expanded to make it even more valuable to the programmer who is slugging it out on the job. You will learn: the critical DB2 concepts that let you understand how DB2 works; the basic DB2 coding features you will use in every program you write; how to use version 4 enhancements like outer joins and explicit syntax for inner joins; how to work with column functions, scalar functions, and subqueries to manipulate data; how to use error handling techniques and ROLLBACK to protect DB2 data; why program efficiency is vital under DB2... and more.

### Modern Mainframe Development Prentice Hall

In this IBM® Redbooks® publication, we attempt to provide fresh insight into a problem domain that, in the authors' opinions, has been pushed to the back burner of technology writing for far too long—the domain of z/OS® (traditional) mainframe maintenance and production support. Since the mid-1980's, outside of a few websites and publications, this still-critical area of software has barely even received lip service by the world of mainstream technology media. In a small way, we are attempting address this situation. In this book, we provide information in "what and how to" sections on the value of z/OS maintenance and support—not the value of the software, which is hardly in question, but the value of the software developers, and how they collaborate, analyze, code, and test the applications, fixes, and enhancements under their responsibility. We present new 21st Century tools to help them achieve their goals more easily and effectively. These tools integrate and provide a 1 + 1 + 1 = 5 value-proposition, for companies that are still doing work the way they did when in the mid-1970's, when Gerald Ford was president of the United States. We are also describing, to a lesser extent, how you can effectively integrate the new tools with your existing development software stack, in order to find points of complimentary functionality. And we describe the new agile development and maintenance methodologies, and best practices for tools use and adoption. We hope that you find this work useful, and perhaps that it can fuel more discussion, future Redbooks publications, and other publications by IBM, or any vendor or group interested in this critical and vastly under-acknowledged technology domain.

### ABCs of IBM z/OS System Programming IBM.Com/Redbooks

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

### DB2 Developer's Guide IBM Redbooks

IBM® CICS® Transaction Server Feature Pack for Dynamic Scripting embeds and integrates technology from WebSphere® sMash into the CICS TS V4.1 run time, helping to reduce the time and cost of CICS application development. The Feature Pack provides a robust, managed environment for a wide range of situational applications allowing PHP and Groovy developers to create reports, dashboards, and widgets, and integrate CICS assets into mash-ups, and much more. The CICS Dynamic Scripting Feature Pack combines the benefits of scripted, Web 2.0 applications with easy and secure access to CICS application and data resources. The Feature Pack includes a PHP 5.2 run time implemented in Java™ and with Groovy language support, support for native Java code and access to many additional libraries and connectors to enhance the development and user experience of rich Internet applications. Access to CICS resources is achieved by using the JCICS APIs. In this IBM Redbooks® publication, we introduce the Dynamic Scripting Feature Pack, show how to install and customize it, and provide examples for using it.