

# Cics Application Programming Guide

Recording for the Blind & Dyslexic, Catalog of Books  
New Ways of Running Batch Applications on z/OS: Volume 1 CICS Transaction Server MVS/VSAM for the Application Programmer  
CICS Handbook CICS/ESA Version 3 Proceedings of Share CICS Programmer's Guide  
CICS Application and System Programming An Introduction to IMS Designing and Programming CICS Applications  
Developing Connector Applications for CICS Architect's Guide to IBM CICS on System z CICS/VS Application Programming: Study guide  
A Software Architect's Guide to New Java Workloads in IBM CICS Transaction Server CICS--a How-to for COBOL Programmers  
Guide for new users The TUXEDO System CICS Application Design CICS Transaction Server from Start to Finish  
Interface Introduction to the New Mainframe: z/OS Basics The Complete Guide to CICS Transaction Gateway Volume 1 Configuration and Administration  
VS COBOL II Application Programming Murach's CICS for the COBOL Programmer CICS Essentials Using IBM CICS Transaction Server Channels and Containers  
Rexx Programmer's Reference Customer Information Control System/virtual Storage (CICS/VS) The MVS Primer ARCHIVED: Pooled JVM in CICS Transaction Server  
Query Management Facility CICS, a Programmer's Reference Sybase Technical Publications: Open server for CICS COBOL programmer's reference  
CICS Command Level Programming The CICS Programmer's Guide to FEPI Streamline Business with Consolidation and

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Conversion to DB2 for z/OSApplication Development for IBM CICS Web ServicesAccessing CICS Business Applications from the World Wide WebMVS COBOL II Power Programmer's Desk ReferenceC Programming in the MVS Environment

### **Recording for the Blind & Dyslexic, Catalog of Books**

### **New Ways of Running Batch Applications on z/OS: Volume 1 CICS Transaction Server**

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 first volume in a series of four in which we specifically 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 specifically focuses on the latest support in CICS to run batch tasks. The audience for this book includes IT architects and application developers, with a focus on batch processing on the z/OS platform in a CICS environment.

## **MVS/VSAM for the Application Programmer**

Written by a down-in-the-trenches programmer, this handbook will show you how to write quality, high-performance COBOL II applications. It explains all the new COBOL II features from a programmer's perspective. Includes extensive examples and techniques on building better, more sophisticated, more efficient COBOL II systems.

## **CICS Handbook**

## **CICS/ESA Version 3**

## **Proceedings of Share**

## **CICS Programmer's Guide**

## **CICS Application and System Programming**

## **An Introduction to IMS**

In this IBM® Redbooks® publication, you will gain an appreciation of the IBM CICS® Transaction Gateway (CICS TG) product suite, based on key criteria, such as

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capabilities, scalability, platform, CICS server support, application language support, and licensing model. Matching the requirements to available infrastructure and hardware choices requires an appreciation of the choices available. In this book, you will gain an understanding of those choices, and will be capable of choosing the appropriate CICS connection protocol, APIs for the applications, and security options. You will understand the services available to the application developer when using a chosen protocol. You will then learn about how to implement CICS TG solutions, taking advantage of the latest capabilities, such as IPIC connectivity, high availability, and Dynamic Server Selection. Specific scenarios illustrate the usage of CICS TG for IBM z/OS®, and CICS TG for Multiplatforms, with CICS Transaction Server for z/OS and IBM WebSphere® Application Server, including connections in CICS, configuring simple end-to-end connectivity (all platforms) with verification for remote and local mode applications, and adding security, XA support, and high availability.

### **Designing and Programming CICS Applications**

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.

## Developing Connector Applications for CICS

NOTE: This book contains information about technologies that have been superseded and it is retained for historical purposes only. IBM CICS Transaction Server (CICS TS) has supported the deployment of Java applications since the 1990's. In CICS TS V1.3 (1999), IBM introduced the 'Pooled JVM' style of JVM infrastructure within CICS TS. This infrastructure was designed to be similar in nature to that which a CICS application developer for a language such as COBOL would be used to. It brought the benefits of the new Java language to CICS TS, without a dramatic change to the way CICS users thought of core concepts such as re-entrancy and isolation. As enterprise usage of Java evolved it began to make more and more use of multi-threaded environments where isolation was not a desired characteristic. Additionally, technologies such as OSGi (Open Service Gateway Initiative) evolved to overcome some of the original disadvantages of applying Java to an enterprise environment. As such, the limitations of the 'Pooled JVM' approach began to outweigh the benefits. In CICS TS V4.1 (2009), IBM introduced the new 'JVM server' infrastructure in CICS TS as a replacement to the 'Pooled JVM' approach. This 'JVM server' infrastructure provides a much more standard Java environment that makes the writing and porting of Java applications for CICS TS much simpler. In CICS TS V5.1 (2012), support for the old 'Pooled JVM' infrastructure was removed. While there is a relatively simple migration path from 'Pooled JVM'

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to 'JVM server', applications should no longer be written to the 'Pooled JVM' infrastructure. There are a number of more recent IBM Redbooks publications covering the replacement 'JVM server' technology, including: IBM CICS and the JVM server: Developing and Deploying Java Applications, SG24-8038 A Software Architect's guide to New Java Workloads in IBM CICS Transaction Server, SG24-8225

### **Architect's Guide to IBM CICS on System z**

### **CICS/VS Application Programming: Study guide**

In the 640-page book, the author covers every major concept in CICS and illustrates it with usable programs or subroutines. It is the most complete reference available to programmers and application programmers for day to day use.

### **A Software Architect's Guide to New Java Workloads in IBM CICS Transaction Server**

### **CICS--a How-to for COBOL Programmers**

### **Guide for new users**

## **The TUXEDO System**

IBM's one-stop guide to the newest versions of IMS: the database used by the world's largest companies for their most mission-critical data \* \*The ideal resource for every IT professional who is new to IMS or upgrading to a current or recent version. \*Updated, authoritative coverage of IMS Versions 12, 11, and 10: components, architecture, database and transaction managers, application development, system administration, security, recovery, tools, and more. \*95% of Fortune 1000 companies rely on IMS. Over four decades, IBM's Information Management System (IMS) has consistently earned the trust of the world's largest enterprises. Thanks to its reliability, security, and performance, nearly 95% of Fortune 1000 companies rely on IMS for their most critical IBM System z data management needs: 50,000,000,000+ transactions run through IMS databases every day. What's more, IBM continues to upgrade IMS to meet new challenges more flexibly at lower cost. In An Introduction to IMS, leading IMS experts offer the definitive introduction to the latest versions: IMS 12, 11, and 10. This edition reflects major recent enhancements, including dynamic information generation capabilities; new access, interoperability and development tools; improved SOA support, and more. Not just a complete tutorial, this book provides examples, cases, problems, solutions, glossaries, and more: everything database professionals need to succeed with IMS, regardless of experience.

## **CICS Application Design**

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This comprehensive, authoritative guide to CICS/ESA Version 3 by IBM's CICS architecture and internals experts helps systems and applications programmers solve many of the problems they encounter while using CICS/ESA. Guidelines and methodologies as well as troubleshooting techniques offer the reader the opportunity for quick resolution of a wide variety of CICS problems.

### **CICS Transaction Server from Start to Finish**

This IBM® Redpaper Redbooks® publication introduces the IBM System z® New Application License Charges (zNALC) pricing structure and provides examples of zNALC workload scenarios. It describes the products that can be run on a zNALC logical partition (LPAR), reasons to consider such an implementation, and covers the following topics:

- Using the IBM WebSphere Application Server Liberty profile to host applications within an IBM CICS® environment and how it interacts with CICS applications and resources
- Security technologies available to applications that are hosted within a WebSphere Application Server Liberty profile in CICS
- How to implement modern presentation in CICS with a CICS Liberty Java virtual machine (JVM) server
- How to share scenarios to develop Liberty JVM applications to gain benefits from IBM CICS Transaction Server for IBM z/OS® Value Unit Edition
- Considerations when using mobile devices to interact with CICS applications and explains specific CICS technologies for connecting mobile devices by using the z/OS Value

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Unit Edition How IBM Operational Decision Manager for z/OS runs in the transaction server to provide decision management services for CICS COBOL and PL/I applications Installing the CICS Transaction Server for z/OS (CICS TS) Feature Pack for Modern Batch to enable the IBM WebSphere® batch environment to schedule and manage batch applications in CICS This book also covers what is commonly referred to as plain old Java objects (POJOs). The Java virtual machine (JVM) server is a full-fledged JVM that includes support for Open Service Gateway initiative (OSGi) bundles. It can be used to host open source Java frameworks and does just about anything you want to do with Java on the mainframe. POJO applications can also qualify for deployment using the Value Unit Edition. Read about how to configure and deploy them in this companion Redbooks publication: IBM CICS and the JVM server: Developing and Deploying Java Applications, SG24-8038 Examples of POJOs are terminal-initiated transactions, CICS web support, web services, requests received via IP CICS sockets, and messages coming in via IBM WebSphere MQ messaging software.

## Interface

This is an updated and expanded version of Murach's two best-selling CICS books. Now, in just one book, IBM mainframe programmers will learn everything they need to know for developing interactive programs with CICS. In addition, they will learn new design and implementation methods for distributed CICS

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processing. These methods also make it

### **Introduction to the New Mainframe: z/OS Basics**

The first and only book that shows information technology professionals how to access legacy mainframe applications from the World Wide Web.

### **The Complete Guide to CICS Transaction Gateway Volume 1 Configuration and Administration**

### **VS COBOL II Application Programming**

This book gives you tools--BMS maps, programs, JCL, etc.--you can easily copy to your own data sets, compile or assemble, and execute with little or no change. And it teaches you how to develop similar tools yourself. These utilities solve practical problems commonly faced by application and system programmers and analysts in MVS and DOS/VSE environments.

### **Murach's CICS for the COBOL Programmer**

IBM® CICS® Transaction Server (CICS TS) has been available in various guises for over 40 years, and continues to be one of the most widely used pieces of commercial software. This IBM Redbooks®

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publication helps application architects discover the value of CICS Transaction Server to their business. This book can help architects understand the value and capabilities of CICS Transaction Server and the CICS tools portfolio. The book also provides detailed guidance on the leading practices for designing and integrating CICS applications within an enterprise, and the patterns and techniques you can use to create CICS systems that provide the qualities of service that your business requires.

### **CICS Essentials**

This unique book is designed to complement existing CICS manuals. Focusing on programming applications rather than theory, this highly technical book is the first of its kind to cover front-end programming interface (FEPI) in detail. Written by a FEPI developer, this guide includes abundant code fragments and design tips to help readers apply what they have learned.

### **Using IBM CICS Transaction Server Channels and Containers**

This IBM® Redbooks® publication 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 book designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing. For optimal learning, students are

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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 book 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 or a reference book that discusses every feature and option of the mainframe facilities. Others who will benefit from this book 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.

### **Rexx Programmer's Reference**

### **Customer Information Control System/virtual Storage (CICS/VS)**

### **The MVS Primer**

### **ARCHIVED: Pooled JVM in CICS Transaction Server**

Here's a comprehensive and useful book on CICS for

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COBOL programmers at all levels. Kirk focuses on techniques, structures, and style. If you're new to CICS, use this book as a CICS tutorial and then, as you gain mastery of CICS, as a handy desk reference. CICS pros can use it for review and reference, and for guidance in migrating to COBOL II.

### **Query Management Facility**

The only CICS book that covers all IBM platforms, including the newly announced CICS/6000 and CICS for OS/400. Crownhart explains how to exploit CICS facilities, make informed and effective choices when designing "real-world" applications, and utilize client/server functionality within a CICS application. He also covers distributed and cooperative processing.

### **CICS, a Programmer's Reference**

Time to market, flexibility, and cost reduction are among the top concerns common to all IT executives. If significant resource investments are placed in mature systems, IT organizations need to balance old and new technology. Older technology, such as non-IBM pre-relational databases, is costly, inflexible, and non-standard. Users store their information on the mainframe and thus preserve the skills and qualities of service their business needs. But users also benefit from standards-based modernization by migrating to IBM® DB2® for z/OS®. With this migration, users deliver new application features quickly and respond to changing business requirements more effectively.

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When migrating, the main decision is choosing between conversion and re-engineering. Although the rewards associated with rebuilding mature applications are high, so are the risks and customers that are embarking on a migration need that migration done quickly. In this IBM Redbooks® publication, we examine how to best approach the migration process by evaluating the environment, assessing the application as a conversion candidate, and identifying suitable tools. This publication is intended for IT decision makers and database administrators who are considering migrating their information to a modern database management system.

### **Sybase Technical Publications: Open server for CICS COBOL programmer's reference**

This manual covers the new release of CICS/ESA - Version 3, and explains CICS interfaces and data access with DB2/SQL, Datacom/DB, and IMS/DLI.

### **CICS Command Level Programming**

This IBM® Redbooks® publication describes the new channels and containers support in IBM Customer Information Control System (CICS®) Transaction Server V5.2. The book begins with an overview of the techniques used to pass data between applications running in CICS. This book describes the constraints that these data techniques might be subject to, and how a channels and containers solution can provide

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solid advantages alongside these techniques. These capabilities enable CICS to fully comply with emerging technology requirements in terms of sizing and flexibility. The book then goes on to describe application design, and looks at implementing channels and containers from an application programmer point of view. It provides examples to show how to evolve channels and containers from communication areas (COMMAREAs). Next, the book explains the channels and containers application programming interface (API). It also describes how this API can be used in both traditional CICS applications and a Java CICS (JCICS) applications. The business transaction services (BTS) API is considered as a similar yet recoverable alternative to channels and containers. Some authorized program analysis reports (APARs) are introduced, which enable more flexible web services features by using channels and containers. The book also presents information from a systems management point of view, describing the systems management and configuration tasks and techniques that you must consider when implementing a channels and containers solution. The book chooses a sample application in the CICS catalog manager example, and describes how you can port an existing CICS application to use channels and containers rather than using COMMAREAs.

### **The CICS Programmer's Guide to FEPI**

Without reaching the level of a programming text, this book discusses the background, architectural framework, and motivation for the TUXEDO System,

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describes TUXEDO's features, and gives a tour through TUXEDO's development and administrative facilities.

### **Streamline Business with Consolidation and Conversion to DB2 for z/OS**

CICS is an application server that delivers industrial-strength, online transaction management for critical enterprise applications. Proven in the market for over 30 years with many of the world's leading businesses, CICS enables today's customers to modernize and extend their applications to take advantage of the opportunities provided by e-business while maximizing the benefits of their existing investments. Designing and Programming CICS Applications will benefit a diverse audience. It introduces new users of IBM's mainframe (OS/390) to CICS features. It shows experienced users how to integrate existing mainframe systems with newer technologies, including the Web, CORBA, Java, CICS clients, and Visual Basic; as well as how to link MQSeries and CICS. Each part of Designing and Programming CICS Applications addresses the design requirements for specific components and gives a step-by-step approach to developing a simple application. The book reviews the basic concepts of a business application and the way CICS meets these requirements. It then covers a wide range of application development technologies, including VisualAge for Java, WebSphere Studio, and Visual Basic. Users learn not only how to design and write their programs but also how to deploy their

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applications. Designing and Programming CICS Applications shows how to: Develop and modify existing COBOL applications Become familiar with the CICS Java environment and write a simple Java wrapper for a COBOL application Develop a web front end using servlets, JSP and JavaBeans. Link the web front end to an existing COBOL application using CORBA Write a Visual Basic application to develop a customer GUI Link an existing COBOL application using a CICS Client ECI call Develop a Java application using Swing as an MQSeries Client Use the MQSeries-CICS bridge to access an existing COBOL application Whether for working with thousands of terminals or for a client/server environment with workstations and LANs exploiting modern technology such as graphical interfaces or multimedia, Designing and Programming CICS Applications delivers the power to create, modernize and extend CICS applications.

### **Application Development for IBM CICS Web Services**

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

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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.

### **Accessing CICS Business Applications from the World Wide Web**

This Second Edition includes all relevant information regarding IBM's latest major update releases of CICS. Using a step-by-step tutorial, it shows how to develop and maintain CICS code for maximum system effectiveness. Coverage includes all commands, support functions, and VS COBOL II; detailed information on using the first microcomputer (OS/2) version of CICS; and table setup and system utilities for applications programmers developing software on personal computers. By providing a wealth of real-world examples, teaches readers a practical, streamlined approach to problem solving using the latest CICS coding techniques.

## **MVS COBOL II Power Programmer's Desk Reference**

This unique reference contains an indexed and topical grouping of CICS issues, questions and answers for CICS programmers who need guidance through many difficult areas, allowing the book to be referenced by application rather than the structure of CICS itself. Programmers will be able to research their own problems quickly and access information on deleted/unsupported CICS functions.

## **C Programming in the MVS Environment**

This IBM® Redbooks® publication focuses on developing Web service applications in IBM CICS®. It takes the broad view of developing and modernizing CICS applications for XML, Web services, SOAP, and SOA support, and lays out a reference architecture for developing these kinds of applications. We start by discussing Web services in general, then review how CICS implements Web services. We offer an overview of different development approaches: bottom-up, top-down, and meet-in-the-middle. We then look at how you would go about exposing a CICS application as a Web service provider, again looking at the different approaches. The book then steps through the process of creating a CICS Web service requester. We follow this by looking at CICS application aggregation (including 3270 applications) with IBM Rational® Application Developer for IBM System z® and how to implement CICS Web Services using CICS Cloud technology. The first part is concluded with hints and

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tips to help you when implementing this technology. Part two of this publication provides performance figures for a basic Web service. We investigate some common variables and examine their effects on the performance of CICS as both a requester and provider of Web services.

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