

## Cics Application Development And Programming Macmillan Databasedata Communications Series

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Use these basic concepts to help you design CICS applications Developing applications You can develop applications in COBOL, Java, Node.js, C, C++, PL/I, Assembler, and REXX languages. CICS provides application programming interfaces (APIs) so that applications can access CICS services and data in other products, such as VSAM and Db2.

### Developing applications in CICS - IBM

You can develop applications in COBOL, Java™, C, C++, PL/I, and Assembler languages. CICS® provides application programming interfaces (APIs) so that applications can access CICS services and data in other products, such as VSAM and DB2®. For a list of the CICS application programming interface commands, see CICS command summary.

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## Developing CICS applications

CICS TS is a powerful mixed-language application server. It provides support for a wealth of different programming languages and enables developers to create applications in their language of choice. The reference information for application development provides detailed information about the CICS interfaces that you can use to develop applications in programming languages.

## Application development reference - IBM

However, Customer Information Control System (CICS®) supplies all the transaction processing and resource management functions, allowing you to concentrate on the development of application programs to meet your organization's business needs. ... CICS application programming.

## CICS application development

Application and Website Development; Cloud Computing and Virtualisation; Cyber Security; Data, Analytics and AI; End User Applications; ... CICS/TS Application Programming Workshop (TPCAPW) Share Email Download LinkedIn Facebook Twitter. CICS/TS Application Programming Workshop. Learn via:

## CICS/TS Application Programming Workshop (TPCAPW)

The CICS Application Programming Primer sample application. You can use this sample application to demonstrate the design and programming of a standard CICS® application. It provides online inquiry and maintenance for a sample customer credit file in a department store. The application uses VSAM files and 3270 display and printer terminals.

## The CICS Application Programming Primer sample application

Programming interface information This book is intended to help you write application programs using EXEC CICS commands that obtain the services of CICS. This book documents General-use Programming Interface and Associated Guidance x CICS Application Programming Reference

## CICS Application Programming Reference

Chapter 15. Debugging CICS applications from a workstation .. 201 Preparing to debug applications from a workstation ..... 201 Chapter 16. Using Debug Tool with CICS applications ..... 203 About Debug Tool ..... 203 Preparing to debug applications with Debug Tool 203 Part 4. CICS application programming techniques .... 205

## CICS TS for z/OS 4.2: Application Programming Guide

IBM CICS is a family of mixed language application servers that provide online transaction management and connectivity for applications on IBM mainframe systems under z/OS and z/VSE. CICS family products are designed as middleware and support rapid, high-volume online transaction processing. A CICS transaction is a unit of processing initiated by a single request that may affect one or more objects. This processing is usually interactive, but background transactions are possible. CICS Transactio

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CICS - Wikipedia

Designing and Programming CICS Applications: Integrating Existing Mainframe Applications with New Technologies eBook: John Horswill, Members of the CICS Development Team at IBM Hursley: Amazon.co.uk: Kindle Store

Designing and Programming CICS Applications: Integrating ...

EXEC CICS commands, to be executed under CICS. Guidance information is in the CICS Application Programming Guide. For information about debugging CICS applications, see the CICS Problem Determination Guide. Who should read this manual The manual is intended primarily for use by application programmers, but will

CICS TS for z/OS 4.2: Application Programming Reference

"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 ...

Designing and Programming CICS Applications: Amazon.co.uk ...

CICS Application Programming Advanced ... Application Management and Development. Requirements Gathering; ... Storage and Networking; System z (Mainframe) z/Linux; z/OS; z/VM; Systems Middleware. Application Infrastructure. CICS; WebSphere; Application Integration and Messaging. IIB/ACE; MQ; Business Process Management; IT Infrastructure and ...

CICS Application Programming Advanced

Book description. 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 [Book]

Eclipse development environment CICS region Liberty JVM server HTTP Call RESTful web application JCICS RESTful web COBOL program application RESTful client What you'll see in this course. Development workstation Ability to install IBM Explorer for z/OS Access to sample code CICS TS for z/OS V5.1 or later

Developing a RESTful Web application for Liberty in CICS

TXSeries™ for Multiplatforms CICS Application Programming Guide Version 5.1 SC09-4460-03

TXSeries: CICS Application Programming Guide

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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.

Designing and Programming CICS Applications: Integrating ...

- Proficiency in one or more modern programming languages
- Understanding of software skills such as business analysis, development, maintenance, and software improvement
- 10+ years' Mainframe Application / COBOL development experience
- 7+ years' experience in CICS/DB2/VSAM/MQ application development

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 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.

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

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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 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.

IBM® CICS® is a mixed language application server that runs on IBM Z®. Over the 50 years since CICS was introduced in 1969, enterprises have used the qualities of service (QoSs) that CICS provides to allow them to create high throughput and secure transactional applications that have powered their business. As the IT landscape has evolved, so has CICS to allow these applications to integrate with new platforms and still provide value to the rest of the business. Because of this capability, many businesses still rely on CICS to power their core applications. This IBM Redpaper publication focuses on modernizing these CICS applications, allowing them to integrate with cloud-native applications. This modernization can be achieved either by constructing application programming interfaces (APIs) that allow new cloud-native applications to connect to your existing assets, rewriting parts of your application in newer languages and hosting them back on CICS, or by using CICS capabilities to extend your applications to provide new capabilities and functions. The paper takes a traditional example application and shows you how it works. Then, the paper extends the example, rewrites portions of its functions, and enables its APIs. It also explains how CICS applications can use continuous integration (CI) and continuous delivery (CD) to deliver, test, and deploy code into CICS easily and with quality.

This book will teach you the basic information and skills you need to develop applications with CICS on IBM mainframe computers running z/OS. The instruction, examples and sample programs in this book are a fast track to becoming productive as quickly as possible using CICS with the COBOL programming language. The content is easy to read and digest, well organized and focused on honing real job skills. Acquiring these skills is a key step in mastering CICS application development and maintenance so you'll be ready to join a CICS programming team.

This IBM® Redbooks® publication provides an example approach of an agile IT team that implements development and operations (DevOps) capabilities into an IBM CICS® application. Several tools are used to show how teams can achieve transparency, traceability, and automation in their application lifecycle with the assistance of all the stakeholders to deliver high-quality application changes that meet the requirements. The application changes that are built highlight the composable and dynamic nature of using CICS, the Liberty JVM runtime server, and IBM UrbanCode™ Deploy, which allows developers to get their applications running quickly by using only the programming model features that are required for their applications. The target audience for this publication is IT developers, managers, and architects, and project managers, test managers and developers, and operations managers and developers.

This IBM® Redbooks® publication provides information about the new Java virtual machine (JVM) server technology in IBM CICS® Transaction Server for z/OS® V4.2. We begin by outlining the many advantages of its multi-threaded operation over the pooled JVM function of earlier releases. The Open Services Gateway initiative (OSGi) is described and we highlight the benefits OSGi brings to both development and deployment. Details are then provided about how to configure and use the new JVM server environment. Examples are included of the deployment process, which takes a Java application from the workstation Eclipse integrated development environment (IDE) with the IBM CICS Explorer® software development kit (SDK) plug-in, through the various stages up to execution in a stand-alone CICS region and an IBM CICSplex® environment. The book continues with a comparison between traditional CICS programming,

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and CICS programming from Java. As a result, the main functional areas of the Java class library for CICS (JCICS) application programming interface (API) are extensively reviewed. Further chapters are provided to demonstrate interaction with structured data such as copybooks, and how to access relational databases by using Java Database Connectivity (JDBC) and Structured Query Language for Java (SQLJ). Finally, we devote a chapter to the migration of applications from the pooled JVM model to the new JVM server run time.

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.

Discussing how CICS/6000 relates to DB2/6000, Sybase, and Oracle, IBM insider Neil Kolban addresses real-world end user scenarios and problems not covered in IBM's voluminous documentation. This tightly focused guide also included helpful AIX commands and tips.

The world has changed. With the new cloud options, enterprises no longer must rely on only their IT organization to meet their computing needs. Business units now have options that were not available just a few years ago. They can get some of their needs met by traditional IT processes, and reach out to a cloud provider to meet other needs. The concern is that if you, working in a traditional IT organization, do not meet these needs, someone else will. This IBM® Redbooks® publication helps you to understand the benefits of becoming your own cloud service provider. It describes a simple approach that allows you to be successful. The main focus of the book is lessons learned from the implementation by an IBM client, Walmart Stores, Inc.®, that achieved impressive results in their efforts to become their own cloud service provider to their developer community. In this way, Walmart successfully made z Systems a relevant part of their Hybrid Cloud strategy. Walmart embarked on this journey to help their application developers achieve results that were previously time-consuming and difficult to deliver. In the process, they realized that they had everything that they needed to become a services provider to their developer community. This book describes the choices that Walmart made, and explains the steps they took to be successful. The goal of the book is not to imply that the only way to achieve success is by following Walmart's process exactly. Rather, this book allows you to use the same basic constructs, but choose implementation details that fit your environment so that you can achieve success on your own terms. With IBM CICS® Transaction Server (TS) for z/OS®, you also have the resources for a successful transition to becoming your own cloud service provider. IBM Design Thinking is a methodology that is used by designers to solve complex problems by focusing on individual user roles. This book is organized from the viewpoint of these roles in the IT organization. It provides guidance in the following areas: What does the line of business expect from a cloud service? What topology and high availability characteristics does the system programmer need? What unique facilities does IBM CICS provide to the service developer? How does a developer discover and consume services in an application? How does the operations team manage the service in production? One of the services that Walmart built and how the decisions made by each job role affected the overall outcome of the service are used as an example throughout this book. It shares the experience of the team that created this and other business critical cloud services that are all hosted in CICS. Comments from Walmart IT leaders that were captured during the authoring process are presented to emphasize why the company adopted cloud and how cloud has helped Walmart to achieve success. Developers understand the risk protection that IT groups provide. They also understand that waiting to move applications to production, or for a service to be provisioned, compromises the agile environment required by today's businesses. This book is intended for enterprise service

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providers looking to enable their developers to increase the speed at which functionality is delivered to the business. For more information about creating IBM z/OS cloud services, see *Creating IBM z/OS Cloud Services*, SG24-8324

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