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This IBM Redbooks® publication gives a broad understanding of several important concepts that are used when describing IBM CICS Transaction Server (TS) for IBM z/OS (CICS TS) performance. This publication also describes many of the significant performance improvements that can be realized by upgrading your environment to the most recent release of CICS TS. This book targets the following audience: Systems Architects wanting to understand the performance characteristics and capabilities of a specific CICS TS release. Capacity Planners and Performance Analysts wanting to understand how an upgrade to the latest release of CICS TS affects their environment. Application Developers wanting to design and code highly optimized applications for deployment into a CICS TS environment. This book covers the following topics: A description of the factors that are involved in the interaction between IBM z® Systems hardware and a z/OS software environment. A definition of key terminology that is used when describing the results of CICS TS performance benchmarks. A presentation of how to collect the required data (and the methodology used) when applying Large Scale Performance Reference (LSPR) capacity information to a CICS workload in your environment. An outline of the techniques that are applied by the CICS TS performance team to achieve consistent and accurate performance benchmark results. High-level descriptions of several key workloads that are used to determine the performance characteristics of a CICS TS release. An introduction to the open transaction environment and task control block (TCB) management logic in CICS TS, including a reference that describes how several configuration attributes combine to affect the behavior of the CICS TS dispatcher. Detailed information that relates to changes in performance characteristics between successive CICS TS releases, covering comparisons that relate to CICS TS V4.2, V5.1, V5.2, V5.3, V5.4, and V5.5. The results of several small performance studies to determine the cost of using a specific CICS functional area.

FiTeq is an IBM® Business Partner that specializes in fraud prevention technologies for the payments industry. This IBM RedpaperTM publication records the methodologies and results of a performance benchmark using the FiTeq Authenticator, which is a component of FiTeq's family of Secure Transaction Solutions. The FiTeq Authenticator is an IBM CICS® enabled application that was run under CICS Transaction Server for z/OS® V5.1 in this benchmark. The performance benchmark was conducted as a joint venture between IBM and FiTeq in January 2014. In summary, the following FiTeq Authenticator application performance characteristics were demonstrated: A scalable solution: CPU usage scales linearly as the number of transactions per second increases. Cost-effective: Approximately only 500 microseconds of CPU per transaction were used for the single configuration. Efficient: Average response times below 20 milliseconds per transaction were maintained at a transaction rate exceeding 8,000 per second. These

benchmark test results confirmed and validated that the FiTeq Authenticator is, in conjunction with the performance, reliability, and scalability provided by IBM z/OS and CICS architectures and associated hardware, fully capable of satisfying the requirements of all top financial institutes. As a by-product of the FiTeq Authenticator performance test, the IBM World-Wide Solutions-Cross ISV Sizing team developed a FiTeq Authenticator Sizing Tool to forecast system requirements based on the transactions per second (TPS) and other system requirements of any future FiTeq client. As a result, the IBM pre-sale team and the FiTeq marketing team will be able to recommend the best fit and most cost-effective IBM software and hardware solution for a particular FiTeq client. Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations, such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

This IBM® Redbooks® publication, intended for architects, application developers, and system programmers, describes how to design and implement Java web-based applications in an IBM CICS® Liberty JVM server. This book is based on IBM CICS Transaction Server V5.3 (CICS TS) using the embedded IBM WebSphere® Application Server Liberty V8.5.5 technology. Liberty is an asset to your organization, whether you intend to extend existing enterprise services hosted in CICS, or develop new web-based applications supporting new lines of business. Fundamentally, Liberty is a composable, dynamic profile of IBM WebSphere Application Server that enables you to provision Java EE technology on a feature-by-feature basis. Liberty can be provisioned with as little as the HTTP transport and a servlet web container, or with the entire Java EE 6 Web Profile feature set depending on your application requirements. This publication includes a Technology Essentials section for architects and application developers to help understand the underlying technology, an Up-and-Running section for system programmers implementing the Liberty JVM server for the first time, and a set of real-life application development scenarios.

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.

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.

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® 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.

This IBM® Redbooks® publication is intended for IBM CICS® system programmers and IBM Z architects. It describes how to deploy and manage Java EE 7 web-based applications in an IBM CICS Liberty JVM server and access data on IBM Db2® for IBM z/OS® and IBM MQ for z/OS sub systems. In this book, we describe the key steps to create and install a Liberty JVM server within a CICS region. We then describe how to best use the different deployment techniques for Java EE applications and the specific considerations when deploying applications that use JDBC, JMS, and the new CICS link to Liberty API. Finally, we describe how to secure web applications in CICS Liberty, including transport-level security and request authentication and authorization by using IBM RACF® and LDAP registries. Information is also provided about how to build a high availability infrastructure and how to use the logging and monitoring functions that are available in the CICS Liberty environment. This book is based on IBM CICS Transaction Server (CICS TS) V5.4 that uses the embedded IBM WebSphere® Application Server Liberty technology. It is also applicable to CICS TS V5.3 with the fixes for the continuous delivery APAR PI77502 applied. Sample applications are used throughout this publication and are freely available for download from the IBM CICSDev GitHub organization along with detailed deployment instructions.

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, 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.

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