

# Terminology

ICC

Integrated Console Controller

ICB

- Integrated Cluster Bus

ICF

- Internal Coupling Facility

ICP

- Internal Coupling Peer Channel

ICSF

- Integrated Cryptographic Service Facility

IBF

- Internal Battery Feature

ICKDSF

- Device Support Facility (software)

IFL

- Integrated Facility for Linux

IGS

- IBM Global Services

IMPP

Installation Manual – Physical Planning

IOCP

- Input Output Control Program

IPL

- Initial Program Load

IQD

- HiperSocket channel type definition

ISC

- InterSystem Coupling

JVM

- Java Virtual Machine

## **Ibm Iocp Manual**

Keith Winnard, Bertus Bekker, Rafael Carvalho A. Lima, Nilkanth Patwardhan, Zheng Zhao, Hui Zhou, IBM Redbooks

#### **Ibm Iocp Manual:**

IBM z15 (8561) Technical Guide Octavian Lascu, John Troy, Jannie Houlbjerg, Frank Packheiser, Paul Schouten, Kazuhiro Nakajima, Anna Shugol, Hervey Kamga, Bo XU, IBM Redbooks, 2022-07-13 This IBM Redbooks publication describes the features and functions the latest member of the IBM Z platform the IBM z15TM machine type 8561 It includes information about the IBM z15 processor design I O innovations security features and supported operating systems The z15 is a state of the art data and transaction system that delivers advanced capabilities which are vital to any digital transformation The z15 is designed for enhanced modularity which is in an industry standard footprint This system excels at the following tasks Making use of multicloud integration services Securing data with pervasive encryption Accelerating digital transformation with agile service delivery Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and Z technologies This book explains how this system uses new innovations and traditional Z strengths to satisfy growing demand for cloud analytics and open source technologies With the z15 as the base applications can run in a trusted reliable and secure environment that improves operations and lessens business risk IBM z14 ZR1 Technical Guide Octavian Lascu, Hervey Kamga, Frank Packheiser, Martijn Raave, John Troy, Bill White, IBM Redbooks, 2018-12-17 This IBM Redbooks publication describes the new member of the IBM Z family IBM z14TM Model ZR1 Machine Type 3907 It includes information about the Z environment and how it helps integrate data and transactions more securely and can infuse insight for faster and more accurate business decisions. The z14 ZR1 is a state of the art data and transaction system that delivers advanced capabilities which are vital to any digital transformation The z14 ZR1 is designed for enhanced modularity in an industry standard footprint A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It also must be an integrated infrastructure that can support new applications Finally it must have integrated capabilities that can provide new mobile capabilities with real time analytics that are delivered by a secure cloud infrastructure IBM z14 ZR1 servers are designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows z14 ZR1 servers to deliver a record level of capacity over the previous IBM Z platforms In its maximum configuration z14 ZR1 is powered by up to 30 client characterizable microprocessors cores running at 4 5 GHz This configuration can run more than 29 000 million instructions per second and up to 8 TB of client memory The IBM z14 Model ZR1 is estimated to provide up to 54% more total system capacity than the IBM z13s Model N20 This Redbooks publication provides information about IBM z14 ZR1 and its functions features and associated software support More information is offered in areas that are relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM Z servers functions and plan for their usage It is intended as an introduction to mainframes Readers are expected to be

generally familiar with IBM Z technology and terminology IBM z13 Technical Guide Octavian Lascu, Edzard Hoogerbrug, Cecilia A De Leon, Ewerson Palacio, Franco Pinto, Barbara Sannerud, Martin Soellig, John Troy, Jin Yang, IBM Redbooks, 2016-11-11 Digital business has been driving the transformation of underlying IT infrastructure to be more efficient secure adaptive and integrated Information Technology IT must be able to handle the explosive growth of mobile clients and employees IT also must be able to use enormous amounts of data to provide deep and real time insights to help achieve the greatest business impact This IBM Redbooks publication addresses the IBM Mainframe the IBM z13TM The IBM z13 is the trusted enterprise platform for integrating data transactions and insight A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It needs to be an integrated infrastructure that can support new applications It needs to have integrated capabilities that can provide new mobile capabilities with real time analytics delivered by a secure cloud infrastructure IBM z13 is designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows the z13 to deliver a record level of capacity over the prior IBM z SystemsTM In its maximum configuration z13 is powered by up to 141 client characterizable microprocessors cores running at 5 GHz This configuration can run more than 110 000 millions of instructions per second MIPS and up to 10 TB of client memory The IBM z13 Model NE1 is estimated to provide up to 40% more total system capacity than the IBM zEnterprise EC12 zEC1 Model HA1 This book provides information about the IBM z13 and its functions features and associated software support Greater detail is offered in areas relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM z Systems functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM z Systems technology and terminology IBM z13s Technical Guide Octavian Lascu, Barbara Sannerud, Cecilia A. De Leon, Edzard Hoogerbrug, Ewerson Palacio, Franco Pinto, Jin J. Yang, John P. Troy, Martin Soellig, IBM Redbooks, 2016-11-10 Digital business has been driving the transformation of underlying information technology IT infrastructure to be more efficient secure adaptive and integrated IT must be able to handle the explosive growth of mobile clients and employees It also must be able to process enormous amounts of data to provide deep and real time insights to help achieve the greatest business impact This IBM Redbooks publication addresses the new IBM z SystemsTM single frame the IBM z13s server IBM z Systems servers are the trusted enterprise platform for integrating data transactions and insight A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It needs to be an integrated infrastructure that can support new applications It also needs to have integrated capabilities that can provide new mobile capabilities with real time analytics delivered by a secure cloud infrastructure IBM z13s servers are designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows z13s servers to deliver a record level of capacity over the prior single frame z

Systems server In its maximum configuration the z13s server is powered by up to 20 client characterizable microprocessors cores running at 4 3 GHz This configuration can run more than 18 000 millions of instructions per second MIPS and up to 4 TB of client memory The IBM z13s Model N20 is estimated to provide up to 100% more total system capacity than the IBM zEnterprise BC12 Model H13 This book provides information about the IBM z13s server and its functions features and associated software support Greater detail is offered in areas relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM z SystemsTM functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM z Systems technology and terminology IBM zEnterprise EC12 Configuration Setup Karan Singh, Sandra Tomoko Minami Abe, Srikanth R. Adige, Lei Ming Cao, Joao Francisco Veiga Kiffer, Woojin Lee, Gianmauro De Marchi, Kazuhiro Nakajima, Botrous Thalouth, IBM Redbooks, 2013-05-28 This IBM Redbooks publication helps you install configure and maintain the IBM zEnterprise EC12 server The zEC12 offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and describes implementation examples in detail This book is intended for systems engineers hardware planners and anyone who needs to understand IBM System z configuration and implementation Readers should be generally familiar with current IBM System z technology and terminology For details about the zEC12 server see IBM zEnterprise EC12 Technical Introduction SG24 8050 and IBM zEnterprise EC12 Technical Guide SG24 8049 IBM z13 Configuration Setup Paolo Bruni, Tom Carielli, Mark Challen, Klaus Horn, Peter Hoyle, Kazuhiro Nakajima, Martin Soellig, IBM Redbooks, 2016-11-10 This IBM Redbooks publication helps you install configure and maintain the IBM z13TM The z13 offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and describes implementation examples in detail This publication is intended for systems engineers hardware planners and anyone who needs to understand IBM z SystemsTM configuration and implementation Readers should be generally familiar with current IBM z Systems technology and terminology For details about the functions of the z13 see IBM z13 Technical Introduction SG24 8250 and IBM z13 Technical Guide SG24 8251 **IBM zEnterprise 196 Configuration Setup** Mike Ebbers, Tom Carielli, Wolfgang Fries, Peter A. Hoyle, Frank Packheiser, John P. Troy, Quan Yuan, IBM Redbooks, 2011-05-09 This IBM Redbooks publication helps you install configure and maintain the IBM zEnterprise 196 server The z196 offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and discusses implementation examples in detail This book is intended for systems engineers hardware planners and anyone who needs to understand IBM System z configuration and implementation Readers should be generally familiar with current IBM System z technology and terminology For details about the z196 server see IBM zEnterprise System Technical Introduction SG24 7832 and IBM zEnterprise System Technical Guide SG24 7833 Temenos on IBM LinuxONE

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and its functions features and associated software support Greater detail is offered in areas relevant to technical planning This book is intended for systems engineers consultants planners and anyone who wants to understand zEnterprise System functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM System z technology and terminology IBM z14 (3906) Technical Guide Octavian Lascu, IBM Redbooks, 2018-12-17 This IBM Redbooks publication describes the new member of the IBM Z family IBM z14TM IBM z14 is the trusted enterprise platform for pervasive encryption integrating data transactions and insights into the data A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It also must be an integrated infrastructure that can support new applications Finally it must have integrated capabilities that can provide new mobile capabilities with real time analytics that are delivered by a secure cloud infrastructure IBM z14 servers are designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows z14 servers to deliver a record level of capacity over the prior IBM Z platforms In its maximum configuration z14 is powered by up to 170 client characterizable microprocessors cores running at 5 2 GHz This configuration can run more than 146 000 million instructions per second MIPS and up to 32 TB of client memory The IBM z14 Model M05 is estimated to provide up to 35% more total system capacity than the IBM z13 Model NE1 This Redbooks publication provides information about IBM z14 and its functions features and associated software support More information is offered in areas that are relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM Z servers functions and plan for their usage It is intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM Z technology and terminology

Server Time Protocol Implementation Guide Octavian Lascu, Hans-Peter Eckam, George Kozakos, Paulo Vitor Pereira, IBM Redbooks, 2016-11-01 Server Time Protocol STP is a server wide facility that is implemented in the Licensed Internal Code LIC of IBM zEnterprise EC12 zEC12 IBM zEnterprise 196 z196 IBM zEnterprise 114 z114 IBM System z10 and IBM System z9 It provides improved time synchronization in both a sysplex or non sysplex configuration This IBM Redbooks publication will help you configure a Mixed Coordinated Timing Network CTN or an STP only CTN It is intended for technical support personnel requiring information about Installing and configuring a Coordinated Timing Network Using STP functions and operations Migrating to a Coordinated Timing Network from various timing environments Readers are expected to be familiar with IBM System z technology and terminology For planning information see our companion book Server Time Protocol Planning Guide SG24 7280 For information about how to recover your STP environment functionality see the Server Time Protocol Recovery Guide SG24 7380 Mainframe from Scratch: Hardware Configuration and z/OS Build Keith Winnard, Bertus Bekker, Rafael Carvalho A. Lima, Nilkanth Patwardhan, Zheng Zhao, Hui Zhou, IBM Redbooks, 2016-12-22 This IBM Redbooks publication helps you install customize and configure an IBM z13 and build z OS environments This book is

intended for those readers who are new to the platform and are faced with the task of installing a mainframe for the first time By the term mainframe in this instance we refer to the hardware and the system software The intention is to show you how this installation can be done Volume 1 shows you how we set up a mainframe and installed z OS V2R2 and IBM DB2 V11 The starting point is a basic hardware configuration of an IBM z13 and DS8000 as shipped from the factory Volume 1 shows you how the following milestones were achieved Creating a configuration for the Customized Offering Driver COD system Stand alone restoration of the COD Expanding the configuration Installing the z OS V2R2 ServerPac Loading and running IVPs for z OS ServerPac Installing DB2 ServerPac and IVPs This publication includes figures that show you how the initial builds were achieved For this book we designed a scenario and show you how to build that scenario step by step Although your requirements likely differ from our scenario we intend to provide you with an example to show you how it can be done and samples and downloadable materials that you can choose to modify to bring you closer to meeting your needs This book is divided into the following parts Part 1 Overview and Planning In this part we introduce you to how we approached the project Part 2 Configuration and builds In this part we describe the tasks that must be completed to create the initial build for the scenario that is described in Part 1 University of Michigan Executive System for the IBM 7090 Computer University of Michigan Computing Center, 1964 IBM z14 Model ZR1 Configuration Setup Octavian Lascu, Martin Soellig, Ryotaroh Sawada, Franco Pinto, Aditya Banuaji, IBM Redbooks, 2019-11-19 This IBM Redbooks publication helps you install configure and maintain the IBM z14 Model ZR1 Machine Type 3907 The z14 ZR1 offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and describes implementation examples in detail This publication is intended for systems engineers hardware planners and anyone who needs to understand IBM Z configuration and implementation Readers should be generally familiar with current IBM Z technology and terminology For more information about the functions of the z14 Model ZR1 see IBM z14 Model ZR1 Technical Introduction SG24 8550 and IBM z14 Model ZR1 Technical Guide SG24 8651 IBM z15 Configuration Setup Octavian Lascu, Bill White, Nelson Oliveira, Franco Pinto, Ryotaroh Sawada, Martin Söllig, IBM Redbooks, 2020-08-04 This IBM Redbooks publication helps you install configure and maintain the IBM z15TM machine types 8561 and 8562 systems The z15 systems offers new functions that require a comprehensive understanding of the available configuration options This book presents configuration setup scenarios and describes implementation examples in detail This publication is intended for systems engineers hardware planners and anyone who needs to understand IBM Z configuration and implementation Readers should be familiar with IBM Z technology and terminology For more information about the functions of the z15 systems see IBM z15 Technical Introduction SG24 8850 IBM z15 8561 Technical Guide SG24 8851 and IBM z15 8562 Technical Guide SG24 8852 IBM z15 (8562) Technical Guide Octavian Lascu, IBM Redbooks, 2021-04-28 This IBM Redbooks publication describes the features and functions the latest member of the IBM Z platform the IBM z15TM Model

T02 machine type 8562 It includes information about the IBM z15 processor design I O innovations security features and supported operating systems The z15 is a state of the art data and transaction system that delivers advanced capabilities which are vital to any digital transformation The z15 is designed for enhanced modularity which is in an industry standard footprint This system excels at the following tasks Making use of multicloud integration services Securing data with pervasive encryption Accelerating digital transformation with agile service delivery Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and Z technologies This book explains how this system uses new innovations and traditional Z strengths to satisfy growing demand for cloud analytics and open source technologies With the z15 as the base applications can run in a trusted reliable and secure environment that improves operations and lessens business risk Building an Ensemble Using IBM zEnterprise Unified Resource Manager Bill White, Elsie Ramos, Octavian Lascu, Mike Ebbers, Paola Bari, Gwen Dente, Wolfgang Fries, Marian Gasparovic, Brian Hatfield, Jeff McDonough, Iain Neville, Giancarlo Rodolfi, Thomas Schulze, Paul Sutera, Qi Ye, Richard Young, IBM Redbooks, 2012-12-12 For the first time it is possible to deploy an integrated hardware platform that brings mainframe and distributed technologies together a system that can start to replace individual islands of computing and that can work to reduce complexity improve security and bring applications closer to the data that they need With the zEnterprise System a new concept in IT infrastructures is being introduced zEnterprise ensembles A zEnterprise ensemble is a collection of highly virtualized diverse systems that can be managed as a single logical entity where diverse workloads can be deployed Ensembles together with the virtualization flexibility security and management capabilities provided by the zEnterprise System are key to solving the problems posed by today s IT infrastructure The zEnterprise System consists of three components IBM zEnterprise Central Processor Complex CPC The zEnterprise CPC can either be a zEnterprise 196 z196 or a zEnterprise 114 z114 Both zEnterprise CPCs offer z OS z VSE and z TPF operating systems as well as the ability to run many virtualized Linux servers under the z VM operating system IBM zEnterprise BladeCenter Extension zBX The zBX provides the capability to run the wide variety of applications typically found in UNIX and x86 architectures The zBX supports select POWER7 blades running AIX and System x blades running Linux on System x and Microsoft Windows IBM zEnterprise Unified Resource Manager Unified Resource Manager runs in the Hardware Management Console HMC It provides integrated management across all elements of the zEnterprise System This IBM Redbooks publication discusses how to plan and implement an ensemble using the zEnterprise Unified Resource Manager This book assumes a knowledge of IT systems networks and storage devices

University of Michigan Executive System for the IBM 7090 Computer, September, 1965 University of Michigan Computing Center, 1965 Server Time Protocol Planning Guide Octavian Lascu, Hans-Peter Eckam, George Kozakos, Paulo Vitor Pereira, IBM Redbooks, 2016-04-12 Server Time Protocol STP is a server wide facility that is implemented in the

Licensed Internal Code LIC of the IBM zEnterprise Servers zEC12 z196 and z114 System z10TM Enterprise Class z10 EC System z10 Business Class z10 BC IBM System z9 Enterprise Class z9 EC System z9 Business Class z9 BC and zSeries z990 and z890 servers It provides improved time synchronization in a sysplex or non sysplex configuration This IBM Redbooks publication is intended for infrastructure architects and system programmers who need to understand the IBM STP functions Readers are expected to be generally familiar with System z technology and terminology This book provides planning information for Server Time Protocol functions and associated software support For more detailed installation operation and recovery information refer to the companion books Server Time Protocol Implementation Guide SG24 7281 and Server Time Protocol Recovery Guide SG24 7380

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