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## IBM z14 (3906) Technical Guide

IBM Redbooks This IBM® Redbooks® publication describes the new member of the IBM Z® family, IBM z14™. 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.

## IBM z14 ZR1 Technical Guide

IBM Redbooks This IBM® Redbooks® publication describes the new member of the IBM Z® family, IBM z14™ 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.

## z/OS Version 1 Release 11 Implementation

IBM Redbooks This IBM® Redbooks® publication positions the new z/OS® Version 1 Release 11 for migration by discussing many of the new functions that are available. The goal for the z/OS platform is to eliminate, automate, and simplify tasks without sacrificing z/OS strengths, and to deliver a z/OS management facility that is easy to learn and use. z/OS is a highly secure, scalable, high-performance enterprise operating system on which to build and deploy Internet- and Java™-enabled applications, providing a comprehensive and diverse application execution environment. This book describes the following new and changed functions: - IBM z/OS Management Facility - Allocation enhancements in z/OS V1R11 - BCP11 function enhancements in z/OS V1R11 - JES2 and JES3 enhancements - zFS file sharing enhancements - Extended access volume enhancements - Choosing whether to run zAAP work on zIIP processors - System REXX enhancements in V1R11 - RRS global panel options - Service aids enhancements in V1R11 - GRS ENQ contention notification enhancements and analysis for GRS latches - Basic HyperSwap® support enhancement - Message Flood Automation enhancements - Program Management new Binder IEWPARMS - Predictive failure analysis (PFA) - SMF enhancements in V1R11 - System Logger enhancements - XCF/XES enhancements in V1R11 - AutoIPL support - Displaying PDSE caching statistics - ISPF enhancements - IBM Health Checker for z/OS enhancements

## z/OS Version 2 Release 1 Technical Updates

IBM Redbooks This IBM® Redbooks® publication provides a broad understanding of the changes, new features, and new functions introduced with IBM z/OS® Version 2 Release 1 (2.1). This new version marks a new era of z/OS. Version 2 lays the groundwork for the next tier of mainframe computing, enabling you to pursue the innovation to drive highly scalable workloads, including private clouds, support for mobile and social applications, and more. Its unrivaled security infrastructure helps secure vast amounts of data. Its highly optimized availability can help you deliver new data analytics solutions. And its continued improvements in management help automate the operations of IBM zEnterprise® systems. With support for IBM zEnterprise EC12 (zEC12, Enterprise Class) and zEnterprise BC12 (zBC12, Business Class) systems, z/OS 2.1 offers unmatched availability, scalability, and security to meet the business challenges of cloud services and data analytics and the security demands of mobile and social network applications. Through its unique design and qualities of service, z/OS provides the foundation that you need to support these demanding workloads alongside your traditional mission-critical applications. WinterShare 2014 presentation This presentation on z/OS V2.1 (June 2014) represents an update to the WinterShare 2014 presentation and reflects z/OS enhancements delivered since general availability last Fall. Please listen to John Eells of our Technical Strategy team present this one-hour comprehensive technical overview of z/OS V2.1. Audio Presentation (59MB) Corresponding charts

## I/O Configuration Using z/OS HCD and HCM

IBM Redbooks IBM® System z® servers offer a full range of connectivity options for attaching peripheral or internal devices for input and output to the server. At the other end of these connections are a variety of devices for data storage, printing, terminal I/O, and network routing. This combination of connectivity and hardware offer System z customers solutions to meet most connectivity requirements. However, to make use of these features, the System z server must be properly configured. This IBM Redbooks® publication takes a high-level look at the tools and processes involved in configuring a System z server. We provide an introduction to the System z channel subsystem and the terminology frequently used in the hardware definition process. We examine the features and functions of tools used in the hardware definition process, such as HCD, CHPID Mapping Tool, and HCM. We discuss the input and output of these tools (IODF, IOCP, IOCDs) and their relationship to one another. We also provide a high-level overview of the hardware configuration process (the flow of generating a valid I/O configuration). We provide configuration examples using both HCD and HCM. The book also discusses available new functions and guidelines for the effective use of HCD and HCM. This document is intended for system programmers and administrators who are responsible for defining and activating hardware changes to z/OS® and System z servers, and for the IBM representatives who need this information. General knowledge of z/OS and IOCP is assumed.

## z/OS Version 1 Release 12 Implementation

IBM Redbooks This IBM® Redbooks® publication describes changes in installation and migration when migrating from a current z/OS® V1R10 and z/OS V1R11 to z/OS V1R12. Also described are tasks to prepare for the installation of z/OS V1R12, including ensuring that driving system and target system requirements are met, and coexistence requirements are satisfied. New migration actions are introduced in z/OS V1R12. This book focuses on identifying some of the new migration actions that must be performed for selected elements when migrating to z/OS V1R12. This book describes the following enhancements: z/OS V1R12 installation, HiperDispatch, System Logger, Auto-reply to WTORs, Real Storage Manager (RSM) DFSMS, DFSORT, Services aids, z/OS Infoprint Server, TSO/E, RMFTM, Language Environment®, BCP allocation XML System Services, z/OS UNIX® System Services, BCP supervisor, Extended Address Volumes HyperSwap®, BCPii, (de)ciphering, Predictive Failure Analysis, C language, Hardware instrumentation services FICON® dynamic channel-path management, Workload Manager, SDSF, JES2, JES3, SMF, GRS, XCF, HCD Unicode, Capacity provisioning, RRS, Parallel subsystems initialization z/OS Management Facility (z/OSMF)

## z/OS Version 1 Release 13 Implementation

IBM Redbooks This IBM® Redbooks® publication provides information about installation and migration changes to be aware of if you are responsible for migrating systems from IBM z/OS® V1R10, z/OS V1R11, and z/OS V1R12 to z/OS V1R13. It also highlights actions that are needed to prepare for the installation of z/OS V1R12, including ensuring driving system and target system requirements are met and coexistence requirements are satisfied. There is a special focus on identifying new migration actions that must be performed for selected elements when migrating to z/OS V1R13. The book addresses the following topics: - z/OS V1R13 overview, z/OS V1R13 installation, managing volume backups with fast replication, XCF enhancements, console service enhancements - DFSMSdfp, DFSMSoam, DFSMSshm, ISPF enhancements, DFSMSrmm enhancements, establishing IBM RACF® security for RRSF TCP/IP connections - GRS enhancements, BCP supervisor, contents supervisor and RSM updates, improved channel recovery, Service aids enhancements, System Logger - SMF - z/OS UNIX System Services, z/OS UNIX-related applications, RRS, z/OS Management Facility, z/OS HCD and HCM, C language - Storage management enhancements, Common Information Model, Predictive Failure Analysis, Extended Address Volume, BCPii, Capacity Provisioning - System SSL enhancements, UNICODE, IBM Language Environment®, SDSF enhancements, JES2 enhancements, JES3 enhancements, IBM RMFTM enhancements - IBM WebSphere® Application Server OEM, z/OSMF, CIM, and Capacity Provisioning setups - BCPii Metal C example

## IBM ZPDT Guide and Reference

IBM Redbooks This IBM® Redbooks® publication provides both introductory information and technical details about the IBM System z® Personal Development Tool (IBM zPDT®), which produces a small System z environment suitable for application development. zPDT is a PC Linux application. When zPDT is installed (on Linux), normal System z operating systems (such as IBM z/OS®) can be run on it. zPDT provides the basic System z architecture and emulated IBM 3390 disk drives, 3270 interfaces, OSA interfaces, and so on. The systems that are discussed in this document are complex. They have elements of Linux (for the underlying PC machine), IBM z/Architecture® (for the core zPDT elements), System z I/O functions (for emulated I/O devices), z/OS (the most common System z operating system), and various applications and subsystems under z/OS. The reader is assumed to be familiar with general concepts and terminology of System z hardware and software elements, and with basic PC Linux characteristics. This book provides the primary documentation for zPDT.

## IBM z13s Technical Guide

IBM Redbooks 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 Systems™ 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 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 z13 Technical Guide

IBM Redbooks 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 z13™. 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 Systems™. 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 z15 (8561) Technical Guide

IBM Redbooks This IBM® Redbooks® publication describes the features and functions the latest member of the IBM Z® platform, the IBM z15™ (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 z15 (8562) Technical Guide

IBM Redbooks This IBM® Redbooks® publication describes the features and functions the latest member of the IBM Z® platform, the IBM z15™ 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.

## Improving z/OS Application Availability by Managing Planned Outages

IBM Redbooks This IBM® Redbooks® publication is intended to make System Programmers, Operators, and Availability Managers aware of the enhancements to recent releases of IBM z/OS® and its major subsystems in the area of planned outage avoidance. It is a follow-on to, rather than a replacement for, z/OS Planned Outage Avoidance Checklist, SG24-7328. Its primary objective is to bring together in one place information that is already available, but widely dispersed. It also presents a different perspective on planned outage avoidance. Most businesses care about application availability rather than the availability of a specific system. Also, a planned outage is not necessarily a bad thing, if it does not affect application availability. In fact, running for too long without an IPL or subsystem restart might have a negative impact on application availability because it impacts your ability to apply preventive service. Therefore, this book places more focus on decoupling the ability to make changes and updates to your system from IPLing or restarting your systems.

## IBM System z Personal Development Tool: Volume 1 Introduction and Reference

IBM Redbooks This IBM® Redbooks® publication introduces the IBM System z® Personal Development Tool (zPDT), which runs on an underlying Linux system based on an Intel processor. zPDT provides a System z system on a PC capable of running current System z operating systems, including emulation of selected System z I/O devices and control units. It is intended as a development, demonstration, and learning platform and is not designed as a production system. This book, providing an introduction, is the first of three volumes. The second volume describes the installation of zPDT (including the underlying Linux, and a particular z/OS® distribution) and basic usage patterns. The third volume discusses more advanced topics that may not interest all zPDT users. The IBM order numbers for the three volumes are SG24-7721, SG24-7722, and SG24-7723. An additional volume (SG24-7859) describes the use of zPDT in a Parallel Sysplex configuration. The systems discussed in these volumes are complex, with elements of Linux (for the underlying PC machine), z/Architecture® (for the core zPDT elements), System z I/O functions (for emulated I/O devices), and z/OS (providing the System z application interface), and possibly with other System z operating systems. We assume the reader is familiar with general concepts and terminology of System z hardware and software elements and with basic PC Linux characteristics.

## The SimHebrew Bible

### The Hebrew Bible in Simulated Hebrew – with English Guide

Energion Publications The SimHebrew Bible makes reading, searching, and learning the Hebrew Bible much easier for non-Hebrew readers. SimHebrew is an exact simulation of the fully spelled Hebrew text of the Bible. Readers of the Latin character set who are not versed in the square text will find both ease and pleasure in learning the Bible in its original tongue without any of the difficulties encountered when facing the traditional right-to-left text. The technique gives a true insight into the linguistic features of the Hebrew – in particular, its economy of language, wordplay, repetition of the same word in different contexts, and above all, the root structure of its words. This Bible also allows easy searching in both Hebrew and English including a full glossary and links to a corresponding online concordance. The combination makes both the Hebrew language and the translation decisions in the English guide fully transparent.

## Extending z/OS System Management Functions with IBM zAware

IBM Redbooks This IBM® Redbooks® publication explains the capabilities of the IBM System z® Advanced Workload Analysis Reporter (IBM zAware), and shows how you can use it as an integral part of your existing System z management tools. IBM zAware is an integrated, self-learning, analytics solution for IBM z/OS® that helps identify unusual system behavior in near real time. It is designed to help IT personnel improve problem determination so they can restore service quickly and improve overall availability. The book gives you a conceptual description of the IBM zAware appliance. It will help you to understand how it fits into the family of IBM mainframe system management tools that include Runtime Diagnostics, Predictive Failure Analysis (PFA), IBM Health Checker for z/OS, and z/OS Management Facility (z/OSMF). You are provided with the information you need to get IBM zAware up and running so you can start to benefit from its capabilities immediately. You will learn how to manage an IBM zAware environment, and see how other products can use the IBM zAware Application Programming Interface to extract information from IBM zAware for their own use. The target audience includes system programmers, system operators, configuration planners, and system automation analysts.

## IBM z/OS Management Facility V2R3

IBM Redbooks This IBM® Redbooks® publication helps you install, configure, and use the IBM z/OS® Management Facility (z/OSMF). z/OSMF is a product for z/OS that simplifies, optimizes, and modernizes the z/OS system programmer experience. z/OSMF delivers solutions in a task-oriented, web browser-based user interface with integrated user assistance. The goal of z/OSMF is to improve system programmer productivity, and make functions easier to understand and use. This improvement makes system programmers more productive as quickly as possible with the least amount of training. You can automate tasks, reduce the learning curve, and improve productivity through a modern, simplified, and intuitive task-based, browser-based interface. z/OSMF is aimed at a mixed skills workforce: It is suited to professionals who are new to z/OS and those who are skilled in z/OS. Each professional has their own needs and faces their own challenges. Novice system programmer might need to understand the "big picture" and how procedures are done. Novices also need access to documentation about procedures and tasks, and implement them according to the rules of the enterprise. Experienced system programmers are familiar with tasks and procedures. Therefore, the goal is to make their work less error-prone and easier. This goal allows them to be more productive and contribute more to their business. Although z/OS delivered simplification since it was introduced, z/OSMF brings a new dimension and focus to simplification. z/OSMF simplifies and modernizes the user experience and helps make pertinent information readily available and easily accessible.

## IBM GDPS: An Introduction to Concepts and Capabilities

IBM Redbooks This IBM® Redbooks® publication presents an overview of the IBM Geographically Dispersed Parallel Sysplex® (IBM GDPS®) offerings and the roles they play in delivering a business IT resilience solution. The book begins with general concepts of business IT resilience and disaster recovery, along with issues that are related to high application availability, data integrity, and performance. These topics are considered within the framework of government regulation, increasing application and infrastructure complexity, and the competitive and rapidly changing modern business environment. Next, it describes the GDPS family of offerings with specific reference to how they can help you achieve your defined goals for disaster recovery and high availability. Also covered are the features that simplify and enhance data replication activities, the prerequisites for implementing each offering, and tips for planning for the future and immediate business requirements. Tables provide easy-to-use summaries and comparisons of the offerings. The extra planning and implementation services available from IBM also are explained. Then, several practical client scenarios and requirements are described, along with the most suitable GDPS solution for each case. The introductory chapters of this publication are intended for a broad technical audience, including IT System Architects, Availability Managers, Technical IT Managers, Operations Managers, System Programmers, and Disaster Recovery Planners. The subsequent chapters provide more technical details about the GDPS offerings, and each can be read independently for those readers who are interested in specific topics. Therefore, if you read all of the chapters, be aware that some information is intentionally repeated.

## IBM GDPS Active/Active Overview and Planning

IBM Redbooks IBM® Geographically Dispersed Parallel Sysplex™ (GDPS®) is a collection of several offerings, each addressing a different set of IT resiliency goals. It can be tailored to meet the recovery point objective (RPO), which is how much data can you are willing to lose or recreate, and the recovery time objective (RTO), which identifies how long can you afford to be without your systems for your business from the initial outage to having your critical business processes available to users. Each offering uses a combination of server and storage hardware or software-based replication, and automation and clustering software technologies. This IBM Redbooks® publication presents an overview of the IBM GDPS active/active (GDPS/AA) offering and the role it plays in delivering a business IT resilience solution.

## IBM z15 Configuration Setup

IBM Redbooks This IBM® Redbooks® publication helps you install, configure, and maintain the IBM z15™ (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](#).

## System z Parallel Sysplex Best Practices

IBM Redbooks This IBM® Redbooks® publication pulls together diverse information regarding the best way to design, implement, and manage a Parallel Sysplex® to deliver the levels of performance and availability required by your organization. This book should be of interest to system programmers, availability managers, and database administrators who are interested in verifying that your systems conform to IBM best practices for a Parallel Sysplex environment. In addition to z/OS® and the sysplex hardware configuration, this book also covers the major IBM subsystems: CICS® DB2® IMS™ MQ WebSphere® Application Server To get the best value from this book, readers should have hands-on experience with Parallel Sysplex and have working knowledge of how your systems are set up and why they were set up in that manner.

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The record of each copyright registration listed in the Catalog includes a description of the work copyrighted and data relating to the copyright claim (the name of the copyright claimant as given in the application for registration, the copyright date, the copyright registration number, etc.).

## IBM z14 Configuration Setup

IBM Redbooks This IBM® Redbooks® publication helps you install, configure, and maintain the IBM z14. The z14 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, see [IBM z14 Technical Introduction, SG24-8450](#) and [IBM z14 Technical Guide, SG24-8451](#).

## Installing Linux for z Systems on zPDT: A Short Cookbook

IBM Redbooks This IBM® Redbooks® publication describes the basic installation processes of Linux for z Systems™ on an IBM zPDT® base. It is intended for readers who are not familiar with IBM z Systems or with the zPDT product. This book assume the reader is familiar with Linux on Intel-compatible platforms. This book provides basic introductions to necessary z Systems and zPDT topics, and proceeds in a cookbook manner. This book is not intended for readers who are already familiar with these topics.

## ABCs of z/OS System Programming: Volume 5

IBM Redbooks The ABCs of z/OS® System Programming is an eleven-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 you need to start your research into z/OS and related subjects. If you would like to become more familiar with z/OS in your current environment, or if you are evaluating platforms to consolidate your e-business applications, the ABCs collection will serve as a powerful learning tool. The contents of the volumes are: Volume 1: Introduction to z/OS and storage concepts, TSO/E, ISPF, JCL, SDSF, and z/OS delivery and installation Volume 2: z/OS implementation and daily maintenance, defining subsystems, JES2 and JES3, LPA, LNKLST, authorized libraries, Language Environment®, and SMP/E Volume 3: Introduction to DFSMS, data set basics, storage management hardware and software, VSAM, System-Managed Storage, catalogs, and DFSMSStvs Volume 4: Communication Server, TCP/IP and VTAM® Volume 5: Base and Parallel Sysplex®, System Logger, Resource Recovery Services (RRS), global resource serialization (GRS), z/OS system operations, Automatic Restart Management (ARM), Geographically Dispersed Parallel Sysplex™ (GPDS), availability in the zSeries® environment Volume 6: Introduction to security, RACF®, Digital certificates and PKI, Kerberos, cryptography and z990 integrated cryptography, zSeries firewall technologies, LDAP, Enterprise identity mapping (EIM), and firewall technologies Volume 7: Printing in a z/OS environment, Infoprint Server and Infoprint Central Volume 8: An introduction to z/OS problem diagnosis Volume 9: z/OS UNIX® System Services Volume 10: Introduction to z/Architecture®, zSeries processor design, zSeries connectivity, LPAR concepts, HCD, and HMC Volume 11: Capacity planning, performance management, RMF, and SMF Volume 12: WLM Volume 13: JES3

## The Windsor Style

Salem House Pub Looks at the postwar life of the Duke and Duchess of Windsor in their Paris mansion and describes their jewels, clothing, and household furnishings

## Color TV Trouble Factbook

## Problems & Solutions

## OSA-Express Implementation Guide

IBM Redbooks This IBM® Redbooks® publication will help you to install, tailor, and configure the Open Systems Adapter (OSA) features that are available on IBM zEnterprise® servers. It focuses on the hardware installation and the software definitions that are necessary to provide connectivity to LAN environments. This information will help you with planning and system setup. This book also includes helpful utilities and commands for monitoring and managing the OSA features. This information will be helpful to systems engineers, network administrators, and system programmers who plan for and install OSA features. The reader is expected to have a good understanding of IBM System z® hardware, Hardware Configuration Definition (HCD) or the input/output configuration program (IOCP), Open Systems Adapter Support Facility (OSA/SF), Systems Network Architecture/Advanced Peer-to-Peer Networking (SNA/APPN), and TCP/IP protocol.

## zPDT Sysplex Extensions - 2020

IBM Redbooks This IBM® Redbooks® publication describes the IBM System z® Personal Development Tool (IBM zPDT®) Sysplex Extensions 2020, which is a package that consists of sample files and supporting documentation to help you get a functioning, data sharing sysplex up and running with minimal time and effort. This book is a significant revision of zPDT 2017 Sysplex Extensions, SG24-8386. This package is designed and tested to be installed on top of a standard Application Developer Controlled Distribution (ADCD) environment. It provides the extra files that you need to create a two-way data sharing IBM z/OS® 2.4 sysplex that runs under IBM z/VM® in a zPDT environment. This package differs from the zPDT sysplex package delivered in IBM zPDT Guide and Reference System z Personal Development Tool, SG24-8205, in that it provides working examples of more sysplex exploiters. It also is designed to adhere to IBM's sysplex best practice recommendations, in as far as is possible in a zPDT environment. Although the package was not tested with IBM Z® Development and Test Environment (previously known as RD&T), it may be used to reduce the effort to create a fully functional sysplex under zD&T. Conceptually, the package might also be restored and used as a template to create a sysplex environment that is running on a real IBM Z CPC. The target audience for this document is system programmers who are responsible for designing, creating, and maintaining IBM Parallel Sysplex® environments. It can also be beneficial to developers who currently maintain their own ADCD environments and want to extend them to add sysplex functions.

## IBM z14 Model ZR1 Technical Introduction

IBM Redbooks This IBM® Redbooks® publication introduces the latest member of the IBM Z platform, the IBM z14 Model ZR1 (Machine Type 3907). It includes information about the Z environment and how it helps integrate data and transactions more securely, and provides 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, which is in an industry standard footprint. This system excels at the following tasks: Securing data with pervasive encryption Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Providing resilience towards zero downtime Accelerating digital transformation with agile service delivery Revolutionizing business processes Mixing 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 z14 ZR1 as the base, applications can run in a trusted, reliable, and secure environment that improves operations and lessens business risk.

## IBM z/OS V2R2: Operations

IBM Redbooks This IBM® Redbooks® publication helps you to become familiar with the technical changes that were introduced into the Operations areas with IBM z/OS® V2R2. This book includes the following chapters: - Chapter 1, "SMFLIMxx parmlib member" on page 1 describes how to set up job cancel decisions and region and MEMLIMIT values, based on the job and its environment. - Chapter 2, "REGIONX" on page 5 describes the new REGIONX JCL keyword that supports two storage specifications and with which the user can specify values for their below-the-line storage and above-the-line storage needs. - Chapter 3, "Two million open data sets" on page 9 describes the ability to have open up to 2,000,000 data sets at a time by address spaces while reducing the allocation time for data sets. - Chapter 4, "Dynamic APF SMF Record" on page 11 describes the new SMF record that is used to track dynamic APF changes. - Chapter 5, "Initial program load device number and volume" on page 13 describes the new message that is used to identify the initial program load (IPL) device and volume. - Chapter 6, "Infoprint enhancements" on page 15 describes the enhancements that were made to Infoprint in z/OS V2R2. - Chapter 7, "GRS EODQ Monitor" on page 19 describes the monitor capture diagnostics for problem determination while minimizing the effect to system performance. - Chapter 8, "BCP11 System Management Facilities recording" on page 23 describes the record changes to hardware. - Chapter 9, "Provisioning based on CPU consumption" on page 25 describes the provisioning that is dynamically based on CPU consumption. - Chapter 10, "System REXX enhancements" on page 31 describes the new functions and interfaces of System Rexx. This book is one of a series of IBM Redbooks publications that take a modular approach to providing information about the updates that are included with z/OS V2R2. This approach has the following goals: - Provide modular content - Group the technical changes into a topic - Provide a more streamlined way of finding relevant information that is based on the topic We hope you find this approach useful and we welcome your feedback.

## GDPS Family

### An Introduction to Concepts and Capabilities

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## IBM Copy Services Manager Implementation Guide

IBM Redbooks This IBM® Redbooks® publication provides an overview of IBM Copy Services Manager (CSM) for IBM Z and open systems, and documents a set of scenarios for using IBM Copy Services manager to automate and manage replication tasks based on IBM Storage. This book reviews and explains the usage of copy services functions and describes how these functions are implemented in IBM Copy Services Manager. IBM Copy Services Manager key concepts, architecture, session types and usage, and new functionality as of IBM Copy Services Manager version 6.1 are also described.

## IBM z13 and IBM z13s Technical Introduction

IBM Redbooks This IBM® Redbooks® publication introduces the latest IBM z Systems™ platforms, the IBM z13™ and IBM z13s. It includes information about the z Systems environment and how it can help integrate data, transactions, and insight for faster and more accurate business decisions. The z13 and z13s are state-of-the-art data and transaction systems that deliver advanced capabilities that are vital to modern IT infrastructures. These capabilities include: Accelerated data and transaction serving Integrated analytics Access to the API economy Agile development and operations Efficient, scalable, and secure cloud services End-to-end security for data and transactions This book explains how these systems use both new innovations and traditional z Systems strengths to satisfy growing demand for cloud, analytics, and mobile applications. With one of these z Systems platforms as the base, applications can run in a trusted, reliable, and secure environment that both improves operations and lessens business risk.

## IBM z/OS V2R2: Availability Management

IBM Redbooks This IBM® Redbooks® publication helps you to become familiar with the technical changes that were introduced into the Availability Management areas with IBM z/OS® V2R2. This book is one of a series of IBM Redbooks that take a modular approach to providing information about the updates that are included with z/OS V2R2. This approach has the following goals: - Provide modular content - Group the technical changes into a topic - Provide a more streamlined way of finding relevant information that is based on the topic We hope you find this approach useful and we welcome your feedback.

## Biblia

cum concordantiis veteris et novi testamenti et sacrorum canonum ... ; summa cum diligentia revisa, corr. et emendata

## Z/OS Management Facility

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## IBM HiperSockets Implementation Guide

IBM Redbooks This IBM® Redbooks® publication provides information about the IBM System z® HiperSockets™ function. It offers a broad description of the architecture, functions, and operating systems support. This publication will help you plan and implement HiperSockets. It provides information about the definitions needed to configure HiperSockets for the supported operating systems. This book is intended for system programmers, network planners, and systems engineers who want to plan and install HiperSockets. A solid background in network and Transmission Control Protocol/Internet Protocol (TCP/IP) is assumed.

## A Catalogue of English Coins in the British Museum

## Anglo-Saxon Series ...

## IBM z14 Model ZR1 Configuration Setup

IBM Redbooks 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.