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This IBM® Redbooks® publication provides a technical overview of the features, functions, and enhancements that are available in IBM i 7.2, including all the available Technology Refresh (TR) levels, from TR1 to TR3. This publication provides a summary and brief explanation of the many capabilities and functions in the operating system. It also describes many of the licensed programs and application development tools that are associated with IBM i. The information that is provided in this book is useful for clients, IBM Business Partners, and IBM service professionals that are involved with planning, supporting, upgrading, and implementing IBM i 7.2 solutions. Regulatory and industry-specific requirements, such as SOX, Visa PCI, HIPAA, and so on, require that sensitive data must be stored securely and protected against unauthorized access or modifications. Several of the requirements state that data must be encrypted. IBM® i5/OS® offers several options that allow customers to encrypt data in the database tables. However, encryption is not a trivial task. Careful planning is essential for successful implementation of data encryption project. In the worst case, you would not be

able to retrieve clear text information from encrypted data. This IBM Redbooks® publication is designed to help planners, implementers, and programmers by providing three key pieces of information: Part 1, "Introduction to data encryption" on page 1, introduces key concepts, terminology, algorithms, and key management. Understanding these is important to follow the rest of the book. If you are already familiar with the general concepts of cryptography and the data encryption aspect of it, you may skip this part. Part 2, "Planning for data encryption" on page 37, provides critical information for planning a data encryption project on i5/OS. Part 3, "Implementation of data encryption" on page 113, provides various implementation scenarios with a step-by-step guide. This IBM® Redbooks® publication provides a technical overview of the features, functions, and enhancements available in IBM i 7.1, including all the Technology Refresh (TR) levels from TR1 to TR7. It provides a summary and brief explanation of the many capabilities and functions in the operating system. It also describes many of the licensed programs and application development tools that are associated with IBM i. The information provided in this book is useful for clients, IBM Business Partners, and IBM service professionals who are involved with planning, supporting, upgrading, and implementing IBM i 7.1 solutions. IBM and the rest of the computer industry are putting most of their DBMS development efforts into SQL. This reference provides the SQL/400 skills that a successful applications developer needs and shows how to create comprehensive, complex, and professional SQL/400 databases. Procedures, triggers, and user-defined functions (UDFs) are the key database software features for developing robust and distributed applications. IBM Universal Database™ for i (IBM DB2® for i) supported these features for many years, and they were enhanced in V5R1, V5R2, and V5R3 of IBM® OS/400® and V5R4 of IBM i5/OSTM. This IBM Redbooks® publication includes several of the announced features for procedures, triggers, and UDFs in V5R1, V5R2, V5R3, and V5R4. This book includes suggestions, guidelines, and practical examples to help you effectively develop IBM DB2 for i procedures, triggers, and UDFs. The following topics are covered in this book: External stored procedures and triggers Java procedures (both Java Database Connectivity (JDBC) and Structured Query Language for Java (SQLJ)) External triggers External UDFs This publication also offers examples that were developed in several programming languages, including RPG, COBOL, C, Java, and Visual Basic, by using native and SQL data access interfaces. This book is part of the original IBM Redbooks publication, Stored Procedures, Triggers, and User-Defined Functions on DB2 Universal Database for iSeries, SG24-6503-02, that covered external procedures, triggers, and functions, and also SQL procedures, triggers, and functions. All of the information that relates to external routines was left in this

publication. All of the information that relates to SQL routines was rewritten and updated. This information is in the new IBM Redbooks publication, SQL Procedures, Triggers, and Functions on IBM DB2 for i, SG24-8326. This book is intended for anyone who wants to develop IBM DB2 for i procedures, triggers, and UDFs. Before you read this book, you need to know about relational database technology and the application development environment on the IBM i server. Annotation For readers who have had some programming experience with a high-level language such as PL/I, COLBO, FORTANS, or any version of RPG, Cozzi explains RPG IV, the latest version of the Report Program Generator language first devised in 1960. This version is the one implemented by the IBM Corporation on computers running the OS/400 operating system, and is compatible with OS/400 Version 5, Release 2 and earlier. He discusses the RPG cycle only briefly, now that it is no longer considered a productive method, and has been replaced by structured programming constructs. He does not provide a bibliography or mention dates for earlier editions. Annotation (c)2003 Book News, Inc., Portland, OR (booknews.com). This IBM® Redbooks® publication introduces a technical overview of the main new features, functions and enhancements available in IBM i 6.1 (formerly called i5/OS® V6R1). It gives a summary and brief explanation of new capabilities and what has changed in the operating system, and also discusses many of the licensed programs and application development tools associated with IBM i. Many other new and enhanced functions are described, such as virtualization of storage, security, Java™ performance, improved performance with IBM System Storage™ devices, backup and recovery, including base IBM i, Backup, Recovery and Media Services (BRMS). The book introduces the PowerHAT™ product, IBM Systems Director-based system management and an easier Web enablement. The information provided in this book will be useful for customers, Business Partners, and IBM service professionals involved with planning, supporting, upgrading, and implementing IBM i 6.1 solutions. In this long-awaited update to IBM i Security Administration and Compliance, security expert Carol Woodbury tells you everything you need to know about IBM i security. Written in a clear, jargon-free style, this book explains the importance of developing a security policy and gives detailed guidance on how to implement and maintain such a system. Written for experienced RPG programmers who want to take advantage of the latest technologies--such as Excel spreadsheets, Adobe files, and e-mail--from within their existing applications without buying costly software, this manual illustrates how to integrate RPG and Java in easy-to-understand code and with cost-effective options. Currently, there exists a very distinct line of expertise between IBM I programmers and Windows and Internet programmers, and this reference breaks through those obstacles to show common development tools for sharing

information and building more compatible interfaces. Filling a very crucial gap, this resource shows programmers how to automatically e-mail reports using RPG and JavaMail, how to embed SQL and create text and XML files from within RPG, and how to migrate existing green-bar reports to Excel spreadsheets. An essential reference, this guide covers hard-to-find yet crucial information and introduces RPG programmers to modern environments. With Remote Direct Memory Access (RDMA), you can make a subset of a host's memory directly available to a remote host. RDMA is available on standard Ethernet-based networks by using the RDMA over Converged Ethernet (RoCE) interface. The RoCE network protocol is an industry-standard initiative by the InfiniBand Trade Association. This IBM® Redpaper publication describes how to set up RoCE to use within an IBM Spectrum® Scale cluster and IBM Elastic Storage® Systems (ESSs). This book is targeted at technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost-effective storage solutions with IBM Spectrum Scale and IBM ESSs. DigiCat Publishing presents to you this special edition of "IBM System 360 RPG Debugging Template and Key punch Card" by Anonymous. DigiCat Publishing considers every written word to be a legacy of humankind. Every DigiCat book has been carefully reproduced for republishing in a new modern format. The books are available in print, as well as ebooks. DigiCat hopes you will treat this work with the acknowledgment and passion it deserves as a classic of world literature. This IBM® Redbooks® publication is focused on melding industry preferred practices with the unique needs of the IBM i community and providing a holistic view of modernization. This book covers key trends for application structure, user interface, data access, and the database. Modernization is a broad term when applied to applications. It is more than a single event. It is a sequence of actions. But even more, it is a process of rethinking how to approach the creation and maintenance of applications. There are tangible deliveries when it comes to modernization, the most notable being a modern user interface (UI), such as a web browser or being able to access applications from a mobile device. The UI, however, is only the beginning. There are many more aspects to modernization. Using modern tools and methodologies can significantly improve productivity and reduce long-term cost while positioning applications for the next decade. It is time to put the past away. Tools and methodologies have undergone significant transformation, improving functionality, usability, and productivity. This is true of the plethora of IBM tools and the wealth of tools available from many Independent Solution Providers (ISVs). This publication is the result of work that was done by IBM, industry experts, and by representatives from many of the ISV Tool Providers. Some of their tools are referenced in the book. In addition to reviewing technologies based on context, there is an explanation of why modernization is important and a description of the business benefits of investing in modernization. This critical information is key for line-of-business executives who want to understand the benefits

of a modernization project. This book is appropriate for CIOs, architects, developers, and business leaders. Related information Making the Case for Modernization, IBM Systems Magazine Covering the basics of Control Language (CL) programming as well as the latest CL features--including new structured-programming capabilities, file-processing enhancements, and the Integrated Language Environment--this resource is geared towards students learning CL. The book guides readers towards a professional grasp of CL techniques, introducing complex processes and concepts through review questions, hands-on exercises, and programming assignments that reinforce each chapter's contents. In addition to 25 chapters that cover CL from start to finish, a comprehensive appendix with condensed references to the most commonly used CL commands is also included along with two additional appendixes that cover the essentials of programming tools and debugging. Application development is a key part of IBM® i businesses. The IBM i operating system is a modern, robust platform to create and develop applications. The RPG language has been around for a long time, but is still being transformed into a modern business language. This IBM Redbooks® publication is focused on helping the IBM i development community understand the modern RPG language. The world of application development has been rapidly changing over the past years. The good news is that IBM i has been changing right along with it, and has made significant changes to the RPG language. This book is intended to help developers understand what modern RPG looks like and how to move from older versions of RPG to a newer, modern version. Additionally, it covers the basics of Integrated Language Environment® (ILE), interfacing with many other languages, and the best tools for doing development on IBM i. Using modern tools, methodologies, and languages are key to continuing to stay relevant in today's world. Being able to find the right talent for your company is key to your continued success. Using the guidelines and principles in this book can help set you up to find that talent today and into the future. This publication is the result of work that was done by IBM, industry experts, business partners, and some of the original authors of the first edition of this book. This information is important not only for developers, but also business decision makers (CIO for example) to understand that the IBM i is not an 'old' system. IBM i has modern languages and tools. It is a matter of what you choose to do with the IBM i that defines its age. The Application System/400 (AS/400) is IBM's family of full-range, general purpose computers, which encompass a broad range of related models. This book is a complete guide to the AS/400 system, utilities, database structure, and programming. This comprehensive, 35-chapter book is the ultimate resource and a "must-have" for every professional working with the i5/iSeries. It is perfect for novice and intermediate programmers as well as for system administrators and operators. In simple, straightforward style, the authors explain core i5/iSeries concepts and show you step by step how to perform a wide variety of essential functions. The book includes sections on

installation, operations, administration, system architecture, programming, the Internet, and troubleshooting. These sections are organized in free-standing style so you don't have to read the book from cover to cover or even sequentially; you can reference the chapters that interest you most, skip some, and jump back and forth as needed. It even contains a helpful glossary to act as a fast reference for all the terms you need to know. Completely updated through i5/OS V5, the fourth edition of this best-selling book contains page after page of information covering RPG IV and Java programming, system values, database and SQL, important system security information, the i5/iSeries as an Internet server, and much more. You'll learn the essential technical concepts you need to get up to speed on all areas of the i5/iSeries, and your increased understanding of the i5/iSeries will boost your productivity. Even if you have a previous edition of this book, you'll want to get this new edition with all of the V5 update and brand new topics like: iSeries Navigator Java SQL iSeries Access HTTP Server Qshell Client/Server and TCP/IP Client Access This book is a learning tool and valuable reference you will use for years to come. As one satisfied reader put it, "If you could own only one i5/iSeries book, this would be it." With "IBM i5/iSeries Primer," Fourth Edition you will: Learn how to install an i5 server Gain a comprehensive knowledge of i5/iSeries operations Understand libraries, objects, library lists, and everything you need to know about files Be able to configure a system Explore programming basics, including how to use utilities, journaling, and commitment control Discover what to do in case of trouble, how to request help from IBM, how to report problems, and how to manage PTFs" Recently revised and updated, this informative reference gives students and professionals a strong foundation in the essentials of business programming using RPG IV. Complete with numerous programming examples and support material, this account covers a variety of topics, including program development process, RPG IV specifications and operations, top down structured design, database definition and processing, interactive applications, and modular programming. Comprehensive and compatible with IBM i Release 5.4, 6.1, 7.1 and later releases, this manual will equip academics with the necessary tools to create highly effective and maintainable RPG IV programs using the latest techniques. Bestselling author Jim Hoskins presents an updated version of his popular, hands-on guide to the IBM AS/400 computers. This practical guide provides users with everything they need to integrate each AS/400 system into small, medium, and large sized business environments. A comprehensive resource that can be used by RPG programmers as they advance from basic subfile usage to more advanced programming, this manual offers concepts, explanations, and practical examples that reflect current trends. With downloadable templates that include both the DDS and RPG IV code, this resource provides the techniques and styles-from basic single-page displays to powerful methods such as recursion, data queues, and embedded SQL-that enable RPG programmers to become subfile masters. With updated code that shows

modern methods, such as ILE strategies and free-format RPG, this reference offers a bounty of practical examples and advanced techniques. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. CL Programming for the AS/400 deals with computers/software. 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.). A complete update of the authoritative guide to AS/400 programming, networking, and hardware. This thorough revision features eight entirely new chapters covering the latest developments in operations, IBM and third-party tools, PC and mainframe connectivity, performance tuning, and more. In addition, all of the chapters have been carefully updated to reflect new software developments in RPG and CODE/400. A comprehensive introduction to IBM i—the operating system that runs on IBM's midrange computer systems (System i, iSeries, AS/400)—and its facilities, this in-depth resource uses step-by-step exercises, review questions, and chapter labs to teach new programmers the latest system concepts and tools. Reflecting system changes that have occurred since 2000, topics include Rational Developer for Power (RDP), RDP Screen Designer and Report Designer, IBM i Access for Windows, IBM i Access for Web, IBM DB2 Web Query for i, and Remote System Explorer (RSE).

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