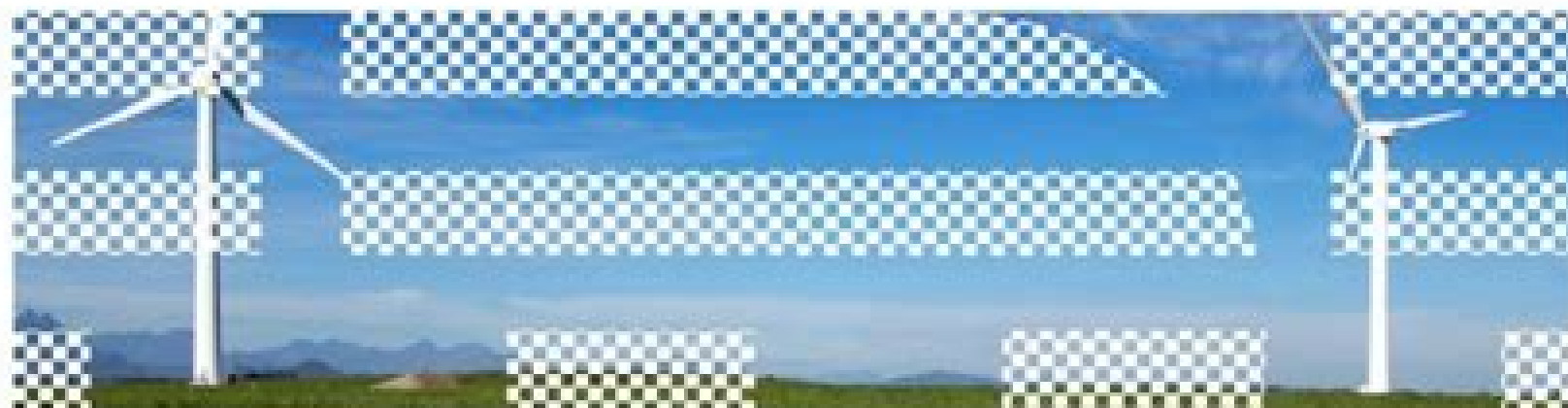


DB2 11 for z/OS Technical Overview

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Db2 9 For Zos Technical Overview

R Bogdan



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DB2 10 for z/OS Technical Overview Paolo Bruni,Rafael Garcia,Sabine Kaschta,Josef Klitsch,Ravi Kumar,Andrei Lurie,Michael Parbs,Rajesh Ramachandran,IBM Redbooks,2014-07-16 IBM DB2 Version 10.1 for z OS DB2 10 for z OS or just DB2 10 throughout this book is the fourteenth release of DB2 for MVSTM It brings improved performance and synergy with the System z hardware and more opportunities to drive business value in the following areas Cost savings and compliance through optimized innovations DB2 10 delivers value in this area by achieving up to 10% CPU savings for traditional workloads and up to 20% CPU savings for nontraditional workloads depending on the environments Synergy with other IBM System z platform components reduces CPU use by taking advantage of the latest processor improvements and z OS enhancements Streamline security and regulatory compliance through the separation of roles between security and data administrators column level security access and added auditing capabilities Business insight innovations Productivity improvements are provided by new functions available for pureXML data warehousing and traditional online TP applications Enhanced support for key business partners that allow you to get more from your data in critical business disciplines like ERP Bitemporal support for applications that need to correlate the validity of data with time Business resiliency innovations Database on demand capabilities to ensure that information design can be changed dynamically often without database outages DB2 operations and utility improvements enhancing performance usability and availability by exploiting disk storage technology The DB2 10 environment is available either for brand new installations of DB2 or for migrations from DB2 9 for z OS or from DB2 UDB for z OS Version 8 subsystems This IBM Redbooks publication introduces the enhancements made available with DB2 10 for z OS The contents help you understand the new functions and performance enhancements start planning for exploiting the key new capabilities and justify the investment in installing or migrating or skip migrating to DB2 10

DB2 9 for z/OS Performance Topics Paolo Bruni,Kevin Harrison,Garth Oldham,Leif Pedersen,Giuseppe Tino,IBM Redbooks,2012-09-28 DB2 9 for z OS is an exciting new version with many improvements in performance and little regression DB2 V9 improves availability and security as well as adds greatly to SQL and XML functions Optimization improvements include more SQL functions to optimize improved statistics for the optimizer better optimization techniques and a new approach to providing information for tuning V8 SQL procedures were not eligible to run on the IBM System z9 Integrated Information Processor zIIP but changing to use the native SQL procedures on DB2 V9 makes the work eligible for zIIP processing The performance of varying length data can improve substantially if there are large numbers of varying length columns Several improvements in disk access can reduce the time for sequential disk access and improve data rates The key DB2 9 for z OS performance improvements include reduced CPU time in many utilities deep synergy with IBM System z hardware and z OS software improved performance and scalability for inserts and LOBs improved SQL optimization zIIP processing for remote native SQL procedures index compression reduced CPU time for data with varying lengths and

better sequential access Virtual storage use below the 2 GB bar is also improved This IBM Redbooks publication provides an overview of the performance impact of DB2 9 for z OS especially performance scalability for transactions CPU and elapsed time for queries and utilities We discuss the overall performance and possible impacts when moving from version to version We include performance measurements that were made in the laboratory and provide some estimates Keep in mind that your results are likely to vary as the conditions and work will differ In this book we assume that you are familiar with DB2 V9 See DB2 9 for z OS Technical Overview SG24 7330 for an introduction to the new functions *DB2 11 for z/OS Technical Overview* Paolo Bruni,Felipe Bortoletto,Ravikumar Kalyanasundaram,Sabine Kaschta,Glenn McGeoch,Cristian Molaro,IBM Redbooks,2016-05-05 IBM DB2 Version 11 1 for z OS DB2 11 for z OS or just DB2 11 throughout this book is the fifteenth release of DB2 for IBM MVSTM It brings performance and synergy with the IBM System z hardware and opportunities to drive business value in the following areas DB2 11 can provide unmatched reliability availability and scalability Improved data sharing performance and efficiency Less downtime by removing growth limitations Simplified management improved autonomies and reduced planned outages DB2 11 can save money and save time Aggressive CPU reduction goals Additional utilities performance and CPU improvements Save time and resources with new autonomic and application development capabilities DB2 11 provides simpler faster migration SQL compatibility divorce system migration from application migration Access path stability improvements Better application performance with SQL and XML enhancements DB2 11 includes enhanced business analytics Faster more efficient performance for query workloads Accelerator enhancements More efficient inline database scoring enables predictive analytics The DB2 11 environment is available either for new installations of DB2 or for migrations from DB2 10 for z OS subsystems only This IBM Redbooks publication introduces the enhancements made available with DB2 11 for z OS The contents help database administrators to understand the new functions and performance enhancements to plan for ways to use the key new capabilities and to justify the investment in installing or migrating to DB2 11 **IBM DB2 12 for z/OS Technical Overview** Meg Bernal,Tammie Dang,Acacio Ricardo Gomes Pessoa,IBM Redbooks,2019-07-03 IBM DB2 12 for z OS delivers key innovations that increase availability reliability scalability and security for your business critical information In addition DB2 12 for z OS offers performance and functional improvements for both transactional and analytical workloads and makes installation and migration simpler and faster DB2 12 for z OS also allows you to develop applications for the cloud and mobile devices by providing self provisioning multitenancy and self managing capabilities in an agile development environment DB2 12 for z OS is also the first version of DB2 built for continuous delivery This IBM Redbooks publication introduces the enhancements made available with DB2 12 for z OS The contents help database administrators to understand the new functions and performance enhancements to plan for ways to use the key new capabilities and to justify the investment in installing or migrating to DB2 12 Extremely pureXML in DB2 10 for z/OS Paolo Bruni,Neale Armstrong,Ravi Kumar,Kirsten Ann Larsen,Tink Tysor,Hao Zhang,IBM

Redbooks,2011-01-28 The DB2 pureXML feature offers sophisticated capabilities to store process and manage XML data in its native hierarchical format By integrating XML data intact into a relational database structure users can take full advantage of DB2 s relational data management features In this IBM Redbooks publication we document the steps for the implementation of a simple but meaningful XML application scenario We have chosen to provide samples in COBOL and Java™ language The purpose is to provide an easy path to follow to integrate the XML data type for the traditional DB2 for z OS user We also add considerations for the data administrator and suggest best practices for ease of use and better performance

DB2 10 for z/OS Performance Topics Paolo Bruni,Felipe Bortoletto,Ravikumar Kalyanasundaram,Glenn McGeoch,Roger Miller,Cristian Molaro,Yasuhiro Ohmori,Michael Parbs,IBM Redbooks,2013-08-23 DB2 10 for z OS can reduce the total DB2 CPU demand from 5 20% compared to DB2 9 when you take advantage of all the enhancements Many CPU reductions are built in directly to DB2 requiring no application changes Some enhancements are implemented through normal DB2 activities through rebinding restructuring database definitions improving applications and utility processing The CPU demand reduction features have the potential to provide significant total cost of ownership savings based on the application mix and transaction types Improvements in optimization reduce costs by processing SQL automatically with more efficient data access paths Improvements through a range list index scan access method list prefetch for IN list more parallelism for select and index insert processing better work file usage better record identifier RID pool overflow management improved sequential detection faster log I O access path certainty evaluation for static SQL and improved distributed data facility DDF transaction flow all provide more efficiency without changes to applications These enhancements can reduce total CPU enterprise costs because of improved efficiency in the DB2 10 for z OS DB2 10 includes numerous performance enhancements for Large Objects LOBs that save disk space for small LOBs and that provide dramatically better performance for LOB retrieval inserts load and import export using DB2 utilities DB210 can also more effectively REORG partitions that contain LOBs This IBM Redbooks publication provides an overview of the performance impact of DB2 10 for z OS discussing the overall performance and possible impacts when moving from version to version We include performance measurements that were made in the laboratory and provide some estimates Keep in mind that your results are likely to vary as the conditions and work will differ In this book we assume that you are somewhat familiar with DB2 10 for z OS See DB2 10 for z OS Technical Overview SG24 7892 00 for an introduction to the new functions

Subsystem and Transaction Monitoring and Tuning with DB2 11 for z/OS Paolo Bruni,Felipe Bortoletto,Adrian Burke,Cathy Drummond,Yasuhiro Ohmori,IBM Redbooks,2022-08-31 This IBM Redbooks publication discusses in detail the facilities of DB2 for z OS which allow complete monitoring of a DB2 environment It focuses on the use of the DB2 instrumentation facility component IFC to provide monitoring of DB2 data and events and includes suggestions for related tuning We discuss the collection of statistics for the verification of performance of the various components of the DB2 system

and accounting for tracking the behavior of the applications We have intentionally omitted considerations for query optimization they are worth a separate document Use this book to activate the right traces to help you monitor the performance of your DB2 system and to tune the various aspects of subsystem and application performance

Managing DB2 for z/OS Utilities with DB2 Tools Solution Packs Paolo Bruni, Carlos Alberto Gomes da Silva Junior, Craig McKellar, Adilet Sabyrbaev, Tim Willging, IBM Redbooks, 2013-07-16 IBM DB2 Tools for z OS support and take advantage of the latest versions of DB2 for z OS These tools are integral for the administration of the DB2 for z OS environment and for optimization of data performance In addition the IBM portfolio addresses additional client requirements in the areas of data governance and version upgrade acceleration Underlying the operation of any database management system are the utilities With the number of database objects growing exponentially managing utility jobs meeting service level agreements SLAs and ensuring recoverability can be overwhelming IBM offers DB2 Tools solution packs that assist in the DB2 utilities management process Solution packs combine several products into a single consolidated solution providing everything necessary to ensure the execution of a set of database administration functions The goals are to reduce the operational complexity and reduce cost The objective of this IBM Redbooks publication is to document the added value in terms of productivity and performance for database administrators when using the IBM DB2 Utilities Solution Pack and the IBM DB2 Fast Copy Solution Pack We show the functions of the tools provided by the solution packs as used in real life scenarios and adopting utilities best practices

Improving z/OS Application Availability by Managing Planned Outages Frank Kyne, Andy Clifton, Justin Deane, Fernando Ferreira, Richard Gunjal, Chuck Laurent, John Papp, Judy Ruby-Brown, Maida Snapper, Michael Stephen, Dave Viguers, Marna Walle, Yvonne Zemotel, IBM Redbooks, 2014-12-22 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

Data Studio and DB2 for z/OS Stored Procedures Paolo Bruni, Marichu Scanlon, IBM Redbooks, 2011-03-15 Stored procedures can provide major benefits in the areas of application performance code re use security and integrity DB2 has offered ever improving support for developing and operating stored procedures This IBM Redpaper™ publication is devoted to tools that can be used for accelerating the development and debugging process in particular to the stored

procedure support provided by the latest and fastest evolving IBM product Data Studio We discuss topics related to handling stored procedures across different platforms We concentrate on how to use tools for deployment of stored procedures on z OS but most considerations apply to the other members of the DB2 family This paper is a major update of Part 6 Cool tools for an easier life of the IBM Redbooks publication DB2 9 for z OS Stored Procedures Through the CALL and Beyond SG24 7604

Unveiling the Magic of Words: A Report on "**Db2 9 For Zos Technical Overview**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Db2 9 For Zos Technical Overview**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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