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DB2 11 for z/OS Technical Overview

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Db2 11 For Zos Technical Overview

DP Hallahan



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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

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

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 [IBM DB2 11 for z/OS Buffer Pool Monitoring and Tuning](#)

Jeff Berger,IBM Redbooks,2014-07-31 IBM DB2 buffer pools are still a key resource for ensuring good performance This has become increasingly important as the difference between processor speed and disk response time for a random access I O widens in each new generation of processor An IBM System z processor can be configured with large amounts of storage which if used wisely can help compensate by using storage to avoid synchronous I O Several changes in buffer pool management have been provided by DB2 10 and DB2 11 The purpose of this IBM Redpaper™ is to cover the following topics Describe the functions of the DB2 11 buffer pools Introduce a number of matrixes for read and write performance of a buffer pool Provide information about how to set up and monitor the DB2 buffer pools The paper is intended to be read by DB2 system administrators but it might be of interest to any IBM z OS performance specialist It is assumed that the reader is familiar with DB2 and performance tuning In this paper we also assume that you are familiar with DB2 11 for z OS performance See DB2 11 for z OS Technical Overview SG24 8180 and DB2 11 for z OS

Performance Topics SG24 8222 for more information about DB2 11 functions and their performance *DB2 12 for z/OS Technical Overview and Highlights* Gareth Jones, IBM Redbooks, 2017-07-12 This paper provides a high level overview of the functions features and improvements that were introduced in IBM DB2 12 for z OS These businesses gain a competitive advantage improve business efficiency and effectiveness and discover business insights from their existing data The paper is intended for DB2 system administrators database administrators and application programmers but might also be of interest to IT managers and executives A more detailed description of DB2 12 is available in IBM DB2 12 for z OS Technical Overview SG24 8383 The purpose of this paper is to provide the reader with an understanding of some of the key changes that were introduced in DB2 12 for z OS including the following topics Performance for traditional workloads Performance enablers for modern applications Application Enablement Reliability availability and scalability Security Migration and prerequisites

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

Reliability and Performance with IBM DB2 Analytics Accelerator V4.1 Paolo Bruni, Jason Arnold, Leticia Cruz, Jeff Feinsmith, Willie Favero, Anna Griner, James Guo, Chris Harlander, Johannes Kern, Ravi Kumar, Ruiping Li, Andy Perkins, Jonathan Sloan, Steve Speller, Dino Tonelli, IBM Redbooks, 2015-05-11 The IBM DB2 Analytics Accelerator for IBM z OS is a high performance appliance that integrates the IBM zEnterprise infrastructure with IBM PureData™ for Analytics powered by IBM Netezza technology With this integration you can accelerate data intensive and complex queries in a DB2 for z OS highly secure and available environment DB2 and the Analytics Accelerator appliance form a self managing hybrid environment running online transaction processing and online transactional analytical processing concurrently and efficiently These online transactions run together with business intelligence and online analytic processing workloads DB2 Analytics Accelerator V4 1 expands the value of high performance analytics DB2 Analytics Accelerator V4 1 opens to static Structured Query Language SQL applications and row set processing minimizes data movement reduces latency and

improves availability This IBM Redbooks publication provides technical decision makers with an understanding of the benefits of version 4.1 of the Analytics Accelerator with DB2 11 for z/OS. It describes the installation of the new functions and the advantages to existing analytical processes as measured in our test environment. This book also introduces the DB2 Analytics Accelerator Loader V1.1, a tool that facilitates the data population of the DB2 Analytics Accelerator. **Optimizing System z Batch Applications by Exploiting Parallelism** Martin Packer, Dean Harrison, Karen Wilkins, IBM Redbooks, 2014-08-21. This IBM Redpaper™ publication shows you how to speed up batch jobs by splitting them into near identical instances, sometimes referred to as It is a practical guide which is based on the authors' testing experiences with a batch job that is similar to those jobs that are found in customer applications. This guide documents the issues that the team encountered and how the issues were resolved. The final tuned implementation produced better results than the initial traditional implementation. Because job splitting often requires application code changes, this guide includes a description of some aspects of application modernization you might consider if you must modify your application. The authors mirror the intended audience for this paper because they are specialists in IBM DB2, IBM Tivoli Workload Scheduler for z/OS, and z/OS batch performance. **Exploring IBM Db2 for z/OS Continuous Delivery** Chris Crone, IBM Redbooks, 2018-03-21. This IBM Redpaper™ publication provides key information about continuous delivery in IBM Db2 12 for z/OS. It discusses how continuous delivery works and the changes that have been made in Db2 12 to support continuous delivery, such as adding a new catalog table and changing existing catalog tables. Also, the paper covers the effects on applications and how to take advantage of new functions provided using the continuous delivery model. *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 520% 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

IMS 11 Open Database Paolo Bruni, Angie Greenhaw, Thilo Liedloff, Bob Stone, IBM Redbooks, 2010-08-12 IMSTM Version 11 continues to provide the leadership in performance reliability and security that is expected from the product of choice for critical online operational applications IMS 11 also offers new functions to help you keep pace with the evolving IT industry Through the introduction of the new IMS Enterprise Suite application developers with minimal knowledge of IMS Connect can start developing client applications to communicate with IMS With Open Database IMS 11 also provides direct SQL access to IMS data from programs that run on any distributed platform unlocking DL I data to the world of SQL application programmers In this IBM Redbooks publication system programmers get the steps for installing the new IMS components and the application programmer can follow scenarios of how client applications can take advantage of SQL to access IMS data We describe the installation of prerequisites such as IMS Connect and the Structured Call Interface component of Common Service Layer address space and document the set up of the three new IMS drivers Universal DB resource adapter Universal JDBC driver Universal DL I driver Our scenarios use the JDBC driver for type 4 access from Windows to a remote DL I database and DB2 tables and extend it to use IBM Mashup Center to provide an effective Web interface and to integrate with Open Database Important IMS Enterprise Suite V2 1 is the last release of the IMS Enterprise Suite that includes the DLIModel utility plug in Customers should migrate to using IMS Enterprise Suite V2 2 or later which includes the IMS Enterprise Suite Explorer for Development DLIModel utility projects can be imported into new IMS Explorer projects In this book any references to generating IMS metadata classes by using the DLIModel utility are comparable to the actions used to generate the classes using the IMS Explorer for Development

Evolve the Monolith to Microservices with Java and Node Sandro De Santis, Luis Florez, Duy V Nguyen, Eduardo Rosa, IBM Redbooks, 2016-12-05 Microservices is an architectural style in which large complex software applications are composed of one or more smaller services Each of these microservices focuses on completing one task that represents a small business capability These microservices can be developed in any programming language This IBM Redbooks publication shows how to break out a traditional Java EE application into separate microservices and provides a set of code projects that illustrate the various steps along the way These code projects use the IBM WebSphere Application Server Liberty IBM API Connect™ IBM Bluemix and other Open Source Frameworks in the microservices ecosystem The sample projects highlight the evolution of monoliths to microservices with Java and Node

Managing IBM DB2 10 for z/OS Using the IBM DB2 Administration Tool for

z/OS Version 10 Paolo Bruni, Tom Crocker, Elaine Morelli, Richard Schaufuss, Jane Yang, IBM Redbooks, 2011-04-22 Today's business environment has increased in the complexity and rate of change that a database administrator must control. The ability to respond quickly to a changing environment is constantly challenged by the explosion of data growth combined with a decline in an experienced work staff. The IBM DB2 Administration Tool for z/OS Version 10 helps you become productive from Day 1 with DB2 10 for z/OS by using performance savings right away, lowering the CPU costs while reducing the batch window. Users experience higher data availability by easily managing online schema changes including additional columns to indexes to use index only access. Customers are able to experience higher data availability through simplified recovery operations. Access new functionality in DB2 10 for z/OS to lower costs and improve efficiency both before, during, and after the DB2 migration process. Maximize the performance of your key DB2 business applications to speed their deployment in DB2 10 for z/OS. Improve the productivity and efficiency of your staff when DB2 10 for z/OS is running. This IBM Redbooks publication highlights the data administration enhancements introduced by DB2 Administration Tool for z/OS Version 10 by providing scenarios of their use with the new functions provided by DB2 10 for z/OS.

IBM IMS Version 12 Technical Overview Paolo Bruni, Isabelle Bruneel, Angie Greenhaw, Dougie Lawson, Jorge Alberto Luz Ribeiro, Egide Van Aershot, IBM Redbooks, 2011-10-25 IBM Information Management System (IMS) provides leadership in performance, reliability, and security to help you implement the most strategic and critical enterprise applications. IMS also keeps pace with the IT industry. IMS Enterprise Suite 2.1 and IMS Tools continue to evolve to provide value and meet the needs of enterprise customers. With IMS 12 integration and open access improvements, provide flexibility and support business growth requirements. Manageability enhancements help optimize system staff productivity by improving ease of use and autonomous computing facilities and by providing increased availability. Scalability improvements have been made to the well-known performance, efficiency, availability, and resilience of IMS by using 64-bit storage. IBM IMS Enterprise Suite for z/OS V2.1 components enhance the use of IMS applications and data. In this release, components either orderable or downloaded from the web deliver innovative new capabilities for your IMS environment. They enhance connectivity, expand application development, extend standards, and tools for a service-oriented architecture (SOA), ease installation, and provide simplified interfaces. This IBM Redbooks publication explores the new features of IMS 12 and Enterprise Suite 2.1 and provides an overview of the IMS tools. In addition, this book highlights the major new functions and facilitates database administrators in their planning for installation and migration.

Batch Modernization on z/OS Mike Ebbers, Elsie Ramos, Snehal Antani, Patrick Bruinsma, Manuel Mueller, Martin Packer, Christian Strauer, Sridhar Sudarsan, Susann Thomas, Andreas Wagner, Janet Wall, IBM Redbooks, 2012-07-26 Mainframe computers play a central role in the daily operations of many of the world's largest corporations, and batch processing is a fundamental part of the workloads that run on the mainframe. A large portion of the workload on IBM z/OS systems is processed in batch mode. Although several IBM Redbooks publications

discuss application modernization on the IBM z OS platform this book specifically addresses batch processing in detail Many different technologies are available in a batch environment on z OS systems This book demonstrates these technologies and shows how the z OS system offers a sophisticated environment for batch In this practical book we discuss a variety of themes that are of importance for batch workloads on z OS systems and offer examples that you can try on your own system The audience for this book includes IT architects and application developers with a focus on batch processing on the z OS platform

IBM GDPS Active/Active Overview and Planning Lydia Parziale,Juliet Candee,Jiong Fan,Paulo Shimizu,Sidney Varoni Jr,Shu Xie,IBM Redbooks,2015-12-15 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

Introduction to the New Mainframe: z/OS Basics Mike Ebbers,John Kettner,Wayne O'Brien,Bill Ogden,IBM Redbooks,2012-01-04 This IBM Redbooks publication provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer It is the first in a planned series of book designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing For optimal learning students are assumed to have successfully completed an introductory course in computer system concepts such as computer organization and architecture operating systems data management or data communications They should also have successfully completed courses in one or more programming languages and be PC literate This book can also be used as a prerequisite for courses in advanced topics or for internships and special studies It is not intended to be a complete text covering all aspects of mainframe operation or a reference book that discusses every feature and option of the mainframe facilities Others who will benefit from this book include experienced data processing professionals who have worked with non mainframe platforms or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment

Benefits of Configuring More Memory in the IBM z/OS Software Stack Mark Wisniewski,Brenda Beane,David Betten,Clark Goodrich,Akiko Hoshikawa,David Herr,Catherine Moxey,Tony Sharkey,Pete Siddall,Robin Tanenbaum,Elpida Tzortzatos,David L Zhang,IBM Redbooks,2017-02-18 Significant performance benefits can be realized by increasing the amount of memory that is assigned to various functions in the IBM z OS software stack operating system and middleware products IBM DB2 and IBM MQ buffer pools dump services and large page usage are just a few of the functions whose ease

of use and performance can be improved when more memory is made available to them The following benefits can realized
Reduced I O operations Reduced CPU usage Improved transaction response time Potential cost reductions Although the
magnitude of these improvements can vary widely based on several factors including potential I Os to be eliminated resource
contention workload configuration and tuning clients must carefully consider whether their environment can benefit from the
addition of memory to the software functions that are described in this IBM Redpaper™ publication This paper describes
the performance implications of increasing memory in the following areas DB2 buffer pools DB2 tuning IBM Cognos Dynamic
Cubes MDM with larger DB2 buffer pools Java heaps and Garbage Collection tuning and Java large page use MQ v8 64 bit
buffer pool tuning Enabling more in memory use by IBM CICS without paging TCP IP FTP DFSort I O reduction Fixed pages
and fixed large pages

High Availability IT Services Terry Critchley, 2014-12-17 This book starts with the basic premise
that a service is comprised of the 3Ps products processes and people Moreover these entities and their sub entities interlink
to support the services that end users require to run and support a business This widens the scope of any availability design
far beyond hardware and software It also increases t

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