

RMF CPU activity (abridged)

1 CPU ACTIVITY

			1100010000	9880	2000	
z/03	V1R10		SYSTEM	ID	P01	
		RPT	VERSION	VIE	10 RM	F
-CPU	XXXX	MODEL	ууу 1	H/W	MODEL	
0	CPU				TIME	
NUM	TYPE	LPAR	BUSY	MVS	BUSY	
0	CP	89.96	5	98.	65	
1	CP	89.94	i i	98.	59	
2	CP	89.93	3	98.	50	
3	CP	89.89)	98.	41	
4	CP	89.85	i	98.	29	1
5	CP	89.80)	98.	19	1
6	CP	89.66	5	97.	98 /	
TOTAL/AVG		89.86	5	98.	37	
0 7	IIP	45.39	L.	45.	45	
8	IIP	47.19	,	47.	25	
TOTAL/AVG		46.29)	46.	35	
The second second					Control of the Contro	

 Higher zIIP utilization is good, because zIIP MIPS cost less than general-purpose MIPS, but don't let zIIP utilization get too high, or you could have significant amount of zIIP-eligible work running on generalpurpose engines (may want to keep zIIP engine utilization under 60%)

START 05/24/2010-09.00.00

END

05/24/2010-11.00.00

 Some organizations looking to boost nighttime zIIP utilization are selectively binding batch packages with DEGREE(ANY) or using SYSQUERYOPTS catalog table for statement-level control of parallelization

Rmf Cpu Utilization Report

Viviane Anavi-Chaput, David Bellion, Tim Bohlsen, Humberto Carrasco, Mike Gordon, Flavio Lima, Mary Siart, Mike Zazulak, IBM Redbooks

Rmf Cpu Utilization Report:

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 autonomics 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 **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 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 Computer Performance Evaluation Users Group (CPEUG) Computer Performance Evaluation Users Group, 1980 10

Computerworld,1981-01-19 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

Using IBM z/OS WLM to Measure Mobile and Other Workloads IBM Client Center Montpellier, Nigel Williams, Olivier Boehler, Philippe Bruschet, Francois Capristo, Alexis Chretienne, Stéphane Faure, Richard Gamblin, Fabrice Jarassat, Arnaud Mante, Irene Stahl, IBM Redbooks, 2016-10-25 This IBM Redpaper TM publication discusses the need to monitor and measure different workloads especially mobile workloads It introduces the workload classification capabilities of

IBM z SystemsTM platforms and helps you to understand how recent enhancements to IBM MVSTM Workload Management WLM and other IBM software products can be used to measure the processor cost of mobile workloads This paper looks at how mobile initiated and other transactions in IBM CICS IMSTM DB2 and WebSphere Application Server can be tagged and tracked using WLM For each of these subsystems the options for classifying mobile requests and using WLM to measure mobile workloads are reviewed A scenario is considered in which a bank is witnessing a significant growth in mobile initiated transactions and wants to monitor and measure the mobile channels more closely. This paper outlines how the bank can use WLM to do this This publication can help you to configure WLM mobile classification rules It can also help you to interpret Workload Activity reports from IBM RMFTM Post Processor and to report on the CPU consumption of different workloads including mobile and public cloud workloads NBS Special Publication ,1978 *InfoSphere Data Replication for DB2 for* z/OS and WebSphere Message Queue for z/OS: Performance Lessons Miao Zheng, Ning Jiang Bin, Song Xiao Yu, Serge Bourbonnais, Yi Jin, IBM Redbooks, 2012-12-22 Understanding the impact of workload and database characteristics on the performance of both DB2 MQ and the replication process is useful for achieving optimal performance Although existing applications cannot generally be modified this knowledge is essential for properly tuning MQ and Q Replication and for developing best practices for future application development and database design It also helps with estimating performance objectives that take these considerations into account Performance metrics such as rows per second are useful but imperfect How large is a row It is intuitively and correctly obvious that replicating small DB2 rows such as 100 bytes long takes fewer resources and is more efficient than replicating DB2 rows that are tens of thousand bytes long Larger rows create more work in each component of the replication process The more bytes there are to read from the DB2 log makes more bytes to transmit over the network and to update in DB2 at the target Now how complex is the table definition Does DB2 have to maintain several unique indexes each time a row is changed in that table The same argument applies to transaction size committing each row change to DB2 as opposed to committing say every 500 rows also means more work in each component along the replication process This RedpaperTM reports results and lessons learned from performance testing at the IBM laboratories and it provides configuration and tuning recommendations for DB2 Q Replication and MQ The application workload and database characteristics studied include transaction size table schema complexity and DB2 data type **ABCs** of z/OS System Programming Volume 13 Paul Rogers, Juha Vainikainen, IBM Redbooks, 2012-02-07 A major goal of operating systems is to process jobs while making the best use of system resources Thus one way of viewing operating systems is as resource managers Before job processing operating systems reserve input and output resources for jobs During job processing operating systems manage resources such as processors and storage After job processing operating systems free all resources used by the completed jobs making the resources available to other jobs This process is called resource management There is more to the processing of jobs than the managing of resources needed by the jobs At any instant a

number of jobs can be in various stages of preparation processing and post processing activity. To use resources efficiently operating systems divide jobs into parts They distribute the parts of jobs to queues to wait for needed resources Keeping track of where things are and routing work from queue to queue is called workflow management and is a major function of any operating system JES3 considers job priorities device and processor alternatives and installation specified preferences in preparing jobs for processing job output This IBM Redbooks publication describes a JES3 environment that includes the following Single system image Workload balancing Availability Control flexibility Physical planning flexibility 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 ABCs of z/OS System Programming Volume 11 Paul Rogers, Alvaro Salla, IBM Redbooks, 2010-12-07 The ABCs of z OS System Programming is a thirteen 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 that you need to start your research into z OS and related subjects If you want 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 technical 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 DFSMStvs 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 Proceedings of Share Share Inc,1983 Computerworld ,1981-02-09 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 Performance Series: FiTeq Authenticator Benchmark John Burgess, Chris Hui, Simon Ma, John Weber, IBM Redbooks, 2014-08-11 FiTeg is an IBM Business Partner that specializes in fraud prevention technologies for the payments industry This IBM RedpaperTM publication records the methodologies and results of a performance benchmark using the FiTeg Authenticator which is a component of FiTeg s family of Secure Transaction Solutions The FiTeg Authenticator is an IBM CICS enabled application that was run under CICS Transaction Server for z OS V5 1 in this benchmark The performance benchmark was conducted as a joint venture between IBM and FiTeg in January 2014 In summary the following FiTeg Authenticator application performance characteristics were demonstrated A scalable solution CPU usage scales linearly as the number of transactions per second increases Cost effective Approximately only 500 microseconds of CPU per transaction were used for the single configuration Efficient Average response times below 20 milliseconds per transaction were maintained at a transaction rate exceeding 8 000 per second These benchmark test results confirmed and validated that the FiTeg Authenticator is in conjunction with the performance reliability and scalability provided by IBM z OS and CICS architectures and associated hardware fully capable of satisfying the requirements of all top financial institutes As a by product of the FiTeg Authenticator performance test the IBM World Wide Solutions Cross ISV Sizing team developed a FiTeg Authenticator Sizing Tool to forecast system requirements based on the transactions per second TPS and other system requirements of any future FiTeg client As a result the IBM pre sale team and the FiTeg marketing team will be able to recommend the best fit and most cost effective IBM software and hardware solution for a particular FiTeq client Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment The actual throughput or performance that any user will experience will vary depending upon many factors including considerations such as the amount of multiprogramming in the user s job stream the I O configuration the storage configuration and the workload processed Therefore no assurance can be given that an individual user will achieve results similar to those stated here DB2 for z/OS and WebSphere Integration for Enterprise Java Applications Paolo Bruni, Zhen Hua Dong, Josef Klitsch, Maggie Lin, Rajesh Ramachandran, Bart Steegmans, Andreas Thiele, IBM Redbooks, 2013-08-07 IBM DB2 for z OS is a high performance database management system DBMS with a strong reputation in traditional high volume transaction workloads that are based on relational technology IBM WebSphere Application Server is web application server software that runs on most platforms with a web server and is used to deploy integrate execute and manage Java Platform Enterprise Edition applications In this IBM Redbooks publication we describe the application architecture evolution focusing on the

value of having DB2 for z OS as the data server and IBM z OS as the platform for traditional and for modern applications This book provides background technical information about DB2 and WebSphere features and demonstrates their applicability presenting a scenario about configuring WebSphere Version 8 5 on z OS and type 2 and type 4 connectivity including the XA transaction support for accessing a DB2 for z OS database server taking into account high availability requirements We also provide considerations about developing applications monitoring performance and documenting issues DB2 database administrators WebSphere specialists and Java application developers will appreciate the holistic approach of this document

SAP on DB2 for z/OS and OS/390: High Availability and Performance Monitoring with Data Sharing Viviane Anavi-Chaput, David Bellion, Tim Bohlsen, Humberto Carrasco, Mike Gordon, Flavio Lima, Mary Siart, Mike Zazulak, IBM Redbooks, 2004-03-01 This IBM Redbooks publication addresses the challenges posed by monitoring high availability scalability and performance in an SAP sysplex data sharing environment It introduces the motivations for utilizing a design based on DB2 data sharing It includes the principal SAP DB2 data sharing architecture options and trade offs used in the industry today and issues that play a role in both high availability and scalability such as failover design database connectivity design workload splitting and load balancing MCOD and coupling facility design The book discusses single point of failure important failover scenarios and outage avoidance automation of high availability constructs and backup and recovery considerations in data sharing environments Performance issues are detailed in the order you would approach them at planning and implementation time First it discusses tuning the sysplex which is the base for a well performing DB2 data sharing system then tuning the DB2 data sharing system which is the base for a well performing SAP system and finally tuning the SAP system The book focuses on initial planning for performance and monitoring it afterward and explains the key points to look for to health check your system and maintain high performance System z Mean Time to Recovery Best Practices Frank Kyne, Judi Bank, David Sanders, Mark Todd, David Viguers, Cheryl Watson, Shulian Yang, IBM Redbooks, 2010-03-22 This IBM Redbooks publication provides advice and guidance for IBM z OS Version 1 Release 10 and subsystem system programmers z OS is an IBM flagship operating system for enterprise class applications particularly those with high availability requirements But as with every operating system z OS requires planned IPLs from time to time This book also provides you with easily accessible and usable information about ways to improve your mean time to recovery MTTR by helping you achieve the following objectives Minimize the application down time that might be associated with planned system outages Identify the most effective way to reduce MTTR for any time that you have a system IPL Identify factors that are under your control and that can make a worthwhile difference to the startup or shutdown time of your Enhancing SAP by Using DB2 9 for z/OS Lydia Parziale, Hyun Baek, Javier Chavez, Vince Crose, Giovanni systems Grita, Theodor Kuebler, Georg Mayer, Heinz Ruflair, Mary Siart, Johannes Schuetzner, IBM Redbooks, 2009-04-10 This IBM Redbooks publication presents many of the new and improved features and functions of DB2 V9 1 for z OS and DB2 Connect

V9 1 It explains how they complement and benefit your SAP NetWeaver environment This book also shares some of our experiences in migrating our DB2 V8 SAP data sharing environment to DB2 9 for z OS with a minimal amount of outage This book is written for SAP and DB2 administrators Knowledge of these products and of the z OS environment is assumed

Enabling Real-time Analytics on IBM z Systems Platform Lydia Parziale, Oliver Benke, Willie Favero, Ravi Kumar, Steven LaFalce, Cedrine Madera, Sebastian Muszytowski, IBM Redbooks, 2016-08-08 Regarding online transaction processing OLTP workloads IBM z SystemsTM platform with IBM DB2 data sharing Workload Manager WLM geoplex and other high end features is the widely acknowledged leader Most customers now integrate business analytics with OLTP by running for example scoring functions from transactional context for real time analytics or by applying machine learning algorithms on enterprise data that is kept on the mainframe As a result IBM adds investment so clients can keep the complete lifecycle for data analysis modeling and scoring on z Systems control in a cost efficient way keeping the qualities of services in availability security reliability that z Systems solutions offer Because of the changed architecture and tighter integration IBM has shown in a customer proof of concept that a particular client was able to achieve an orders of magnitude improvement in performance allowing that client's data scientist to investigate the data in a more interactive process Open technologies such as Predictive Model Markup Language PMML can help customers update single components instead of being forced to replace everything at once As a result you have the possibility to combine your preferred tool for model generation such as SAS Enterprise Miner or IBM SPSS Modeler with a different technology for model scoring such as Zementis a company focused on PMML scoring IBM SPSS Modeler is a leading data mining workbench that can apply various algorithms in data preparation cleansing statistics visualization machine learning and predictive analytics It has over 20 years of experience and continued development and is integrated with z Systems With IBM DB2 Analytics Accelerator 5 1 and SPSS Modeler 17 1 the possibility exists to do the complete predictive model creation including data transformation within DB2 Analytics Accelerator So instead of moving the data to a distributed environment algorithms can be pushed to the data using cost efficient DB2 Accelerator for the required resource intensive operations This IBM Redbooks publication explains the overall z Systems architecture how the components can be installed and customized how the new IBM DB2 Analytics Accelerator loader can help efficient data loading for z Systems data and external data how in database transformation in database modeling and in transactional real time scoring can be used and what other related technologies are available This book is intended for technical specialists and architects and data scientists who want to use the technology on the z Systems platform Most of the technologies described in this book require IBM DB2 for z OS For acceleration of the data investigation data transformation and data modeling process DB2 Analytics Accelerator is required Most value can be achieved if most of the data already resides on z Systems platforms although adding external data like from social sources poses no problem at all

Networking Bill White, Mike Ebbers, Demerson Cilloti, Gwen Dente, Sandra Elisa Freitag, Hajime Nagao, Carlos Bento Nonato, Matt Nuttall, Frederick James Rathweg, Micky Reichenberg, Andi Wijaya, Maulide Xavier, IBM Redbooks, 2010-04-26 Note This PDF is over 900 pages so when you open it with Adobe Reader and then do a Save As the save process could time out Instead right click on the PDF and select Save Target As For more than 40 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors providing among many other capabilities world class state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for ever more secure scalable and highly available mainframe TCP IP implementations The IBM z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication explains how to set up security for your z OS networking environment With the advent of TCP IP and the Internet network security requirements have become more stringent and complex Because many transactions come from unknown users and from untrusted networks such as the Internet careful attention must be given to host and user authentication data privacy data origin authentication and data integrity Also because security technologies are complex and can be confusing we include helpful tutorial information in the appendixes of this book For more specific information about z OS Communications Server base functions standard applications and high availability refer to the other volumes in the series IBM z OS V1R11 Communications Server TCP IP Implementation Volume 1 Base Functions Connectivity and Routing SG24 7798 IBM z OS V1R11 Communications Server TCP IP Implementation Volume 2 Standard Applications SG24 7799 IBM z OS V1R11 Communications Server TCP IP Implementation Volume 3 High Availability Scalability and Performance SG24 7800 In addition z OS Communications Server IP Configuration Guide SC31 8775 z OS Communications Server IP Configuration Reference SC31 8776 and z OS Communications Server IP User's Guide and Commands SC31 8780 contain comprehensive descriptions of the individual parameters for setting up and using the functions that we describe in this book They also include step by step checklists and supporting examples It is not the intent of this book to duplicate the information in those publications but to complement them with practical implementation scenarios that might be useful in your environment To determine at what level a specific function was introduced refer to z OS Communications Server New Function Summary

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