Co-locating Transactional And Data Warehouse Workloads On System Z

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Summary : Free co-locating transactional and data warehouse workloads on system z pdf download - as business cycles speed up many customers gain significant competitive advantage from quicker and more accurate business decision-making by using real data for many customers choosing the path to co-locate their transactional and analytical workloads on system z better leverages their existing investment in hardware software and skills we created a project to address a number of best practice questions on how to manage these newer analytical type workloads especially when co-located with traditional transactional workloads the goal of this ibm redbooks publication is to provide technical guidance and performance trade-offs associated with resource management and potentially db2 data-sharing in a variety of mixed transactional data warehouse system z topologies the term co-location used here and in the rest of the book is specifically defined as the practice of housing both transactional oltp and data warehouse analytical workloads within the same system z configuration we also assumed that key portions of the transactional and data warehouse databases would reside on db2 for z os the databases may or may not reside in a db2 data-sharing environment we discuss those pros and cons in this book the intended audience includes db2 data warehouse architects and practitioners who are facing choices in resource management and system topologies in the data warehouse arena this specifically includes business intelligence bi administrators db2 database administrators dbas and z os performance administrators systems programmers in addition decision makers and architects can utilize this book to assist in making platform and database topology decisions the book is divided into four parts part i introducing the co-location project covers the system z value proposition and why one should consider system z as the central platform for their data warehousing business analytics needs some topics are risk avoidance via data consolidation continuous availability simplified disaster recovery ibm smart analytics optimizer reduced network bandwidth requirements and the unique virtualization and

resource management capabilities of system z lpar z vm and wlm part i also provides some of the common system z co-location topologies along with an explanation of the general pros and cons of each this would be useful input for an architect to understand where a customer is today and where they might consider moving to part ii project environment covers the environment products workloads workload drivers and data models implemented for this study the environment consisted of a logically partitioned z10tm 32way running z vm linux and z os operating system instances on those instances we ran products such as z os db2 v9 ibm cognos business intelligence version 8 4 for linux on system z infospheretm warehouse for system z infosphere change data capture z os websphere v7 tivoli omegamon for db2 performance expert utilizing these products we created transactional oltp data warehouse query and data warehouse refresh workloads all the workloads were based on an existing web-based transactional bookstore workload that s currently utilized for internal testing within the system p and z labs while some ibm cognos bi and iswz product usage and experiences information is covered in this book we do not go into the depth typically found in ibm redbooks publications since there s another book focused specifically on that

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