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MAINFRAME SOFTWARE

Utility Suite for Db2 for z/OS

Highlights

- A single resource for all your database management and Db2 housekeeping needs.

- More functions, integration, and flexibility, adding up to increased value.

- Surgically back out a single update, support auditing of data changes, and replicate data changes to remote subsystems.

- Assess recoverability and provide recovery time estimate; define strategy for and test disaster recovery scenarios.

- Highly efficient batch utilities to load, unload, copy, and recover large amounts of Db2 data.

Key Features

- **Maximized DBA productivity:** Use real-time statistics to evaluate conditions and trigger the appropriate Db2 housekeeping maintenance actions.

- **Application recovery:** Automate the recovery of your table spaces and index spaces.

- **Recovery compliance:** Assess recoverability at scale and recover to shadow objects for forensic analysis without impacting source objects.

- **Performance and zIIP utilization:** Increase performance with high parallelism, intelligent sort, efficient I/O processing and utilizing zIIP processors to reduce CPU consumption.

Overview

Database Administrators (DBAs) regularly perform routine maintenance tasks such as database reorganizations, loads and unloads, and backups to ensure the performance, availability, and integrity of their database environments. Maintenance requires precious system resources, requiring DBAs to find the most efficient tools possible to limit response time and availability impacts to critical business systems.

Utility Suite for Db2 for z/OS is a solution architected to efficiently use system resources, and to limit the adverse impact on the business. Utility Suite tools are tightly integrated to provide the efficiency and usability needed to deliver fast and efficient database management.

Business Challenges

The large scale and highly critical nature of large mainframe Db2 environments presents many challenges that are not found in smaller environments. This is especially true for organizations that are using their mainframe resources to support today's processing-intensive workloads. When faced with a Db2 recovery situation, it is imperative that a DBA recover critical Db2 data correctly and bring applications back online as quickly as possible.

Solution Overview

Utilities Suite for Db2 for z/OS helps improve performance, reduce CPU usage and costs, and minimize outages while performing maintenance on your Db2 environments on z/OS.

This suite includes the following products:

- **Database Analyzer™ for Db2 for z/OS:** Provides robust database monitoring and analysis capabilities to help uncover database errors, prevent data loss, and simplify administration. It is designed to increase DBA productivity by automating Db2 housekeeping, utility scheduling and execution.

- **Log Analyzer™ for Db2 for z/OS:** Analyzes Db2 log and SMF records to aid in auditing data changes.

- **Recovery Analyzer™ for Db2 for z/OS:** Simplifies complex Db2 recovery situations by automating the generation of efficient recovery jobs and supporting recovery estimation and shadow recovery scenarios.

- **Fast Load for Db2 for z/OS:** Helps you load large amounts of data into Db2 tables.

- **Fast Unload® for Db2 for z/OS:** Provides a high-speed zIIP-eligible utility that helps you unload Db2 data from a variety of data sources.

- **Rapid Reorg® for Db2 for z/OS:** Reorganizes your table spaces and index spaces to alleviate problems caused by disorganized data.

- **Fast Recover™ for Db2 for z/OS:** Provides the ability to quickly recover Db2 data (table spaces and indexes), test the recovery in PREVIEW mode, or restore data to a different object.

About the Mainframe Division

The Mainframe Division at Broadcom continues to drive the next horizon of open, cross-platform, enterprise solutions. We specialize in DevOps, security, AIOps, and infrastructure software solutions that allow customers to embrace open tools and technologies, make mainframe an integral part of their cloud, and enable innovation that drives business forward. We are committed to forging deep relationships with our clients at all levels. We go beyond products and technology to partner with you in creative ways that support your success.

Solution Overview (cont.)

- **Merge/Modify™ for Db2 for z/OS:** Accelerates image copy and recovery processes to help you reduce the drain on valuable CPU resources and streamline backup and recovery procedures.

- **Quick Copy for Db2 for z/OS:** Provides you with backups of Db2 data by making single or multiple image copies at high speeds.

- **Fast Check™ for Db2 for z/OS:** Offers you in-depth integrity checking for data, LOBs, and indexes.

- **Fast Index® for Db2 for z/OS:** Enables you to conserve system resources by deleting indexes you no longer need and then building new ones later when you need them.

Critical Differentiators

- Database Analyzer selects objects dynamically, in real time, based on whether they meet the specified object maintenance criteria, instead of requiring you to select them by name. Its reports give DBAs insight into trends and helps forecast events such as when a table space will go into another extent as well as table row distribution, space analysis, free space analysis, index content analysis, column analysis, and frequency values.

- Fast Load uses parallelism as part of the load process to increase data availability, and offers extensive formatting and data conversion options to maximize DBA productivity.

- Fast Unload can skip partitions when unloading, does not require an active Db2 subsystem to unload data, and unloads from image copies, even when the table no longer exists in the catalog.

- Fast Recover provides a variety of options for recovering Db2 table space and index space data to source or alternate objects and lets you execute the recovery in a test mode to validate and tune the recovery JCL.

- Quick Copy intelligent hardware SNAPSHOT support includes update modification indicators, which can affect performance and offload significant CPU processing time to zIIP processors.

- RECOVER-TOOL batch utility simplifies recovery operations by providing recovery estimation, recovery to shadow objects, and generation of recovery strategies in Recovery Analyzer using a given list of objects capabilities.

- Log Analyzer Db2 log data to create easy-to-read reports, undo erroneous updates, recover dropped objects, and propagate changes to other subsystems.

For more information, please visit our site at: broadcom.com/db2