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Product Brief

# Subsystem Analyzer for Db2 for z/OS

## Key Benefits

- **Reduce overhead:** Sampling technology limits the demand on Db2 resources when collecting data.
- **Detailed reporting:** Online and historical reporting provides data that helps improve tuning.
- **Reduce contention:** Identifies frequently used objects that should be isolated to prevent contention.

## Key Features

- **Comprehensive subsystem statistics collection:** Provides detailed, comprehensive data about GETPAGE requests and physical I/O activity for databases, tablespaces, tables, indexes, buffer pools, and DASD volumes.
- **Subsystem information reporting:** Reports on the internal storage areas that Db2 uses and displays the current definitions of many internal Db2 structures.
- **Identify frequently used Db2 objects:** Identifies the most active tables, indexes, and pagesets.
- **View current activity:** Displays current subsystem statistics, storage pool contents, and interval activity.
- **Evaluate subsystem and application performance:** Integrates with Detector® for Db2 for z/OS (Detector) to view SQL activity that referenced a table or index.

## Overview

Subsystem Analyzer for Db2 for z/OS (Subsystem Analyzer) is designed to save your database administrators (DBAs) time by consolidating information into a clear, concise view, helping them to more quickly understand underlying subsystem performance, DASD usage, and contention and buffer pool activity.

## Business Challenges

Managing your Db2 subsystems can be a complex and time-consuming process. Data collection can be costly, yet a comprehensive picture of subsystem activity is necessary to make informed decisions when tuning your Db2 subsystem.

## Solution Overview

Subsystem Analyzer helps you quickly identify and correct the Db2 subsystem factors that affect performance. Sampling technology limits the demand on Db2 resources, reducing the overhead associated with collecting critical performance information. Detailed, comprehensive data about GETPAGE requests and physical I/O activity for databases, tablespaces, tables, indexes, buffer pools and DASD volumes is provided. All information collected is automatically synchronized with other collection data and can be synchronized with application performance information collected by Detector. Gather data on an individual Db2 subsystem and store it in a data set for future analysis, or observe the activity of any Db2 subsystem in your sysplex in real time. The batch report facility program provides support for reporting and unloading historical data, helping you understand the utilization of these resources and tune them for better subsystem performance.

## Critical Differentiators

Subsystem Analyzer provides the following capabilities to help you manage your Db2 subsystems:

- **Comprehensive analysis:** Examine and analyze object activity at the database, tablespace, table, index, data set, and data set extent levels and evaluate getpage activity, physical I/O activity, and buffer pool hit ratios for all tablespaces and index spaces referenced on your subsystem.
- **Identify frequently used tables:** Identify frequently used tables and how they are referenced. View the frequency of table sequential access versus index access to determine the overall efficiency of data access to the table.

## Critical Differentiators (cont.)

- **Understand index use:** Determine how applications are using indexes on a table. View the activity of all indexes that have been used to reference a table. Easily identify the heavily and least-used indexes that are used for a selected table. In addition, you can view the buffer pool hit ratios for all indexes on a table.
- **View SQL activity:** Integrate with Detector to see which SQL accounts for the majority of table or index access. Determine whether the SQL referenced the table using sequential access or index access. Evaluate subsystem and application performance when integrated with Detector, and jump between the products while viewing current or historical information. Synchronize data collection between the products using a common collection interval.
- **Evaluate efficiency:** Examine current buffer pool use, physical I/O activity for group buffer pools, volume activity, and volume response times. Evaluate physical I/O activity for group buffer pools defined for your data sharing groups. Read and write activity information helps you understand how efficiently your group buffer pools are performing.

## Related Products

- **Database Analyzer™ for Db2 for z/OS:** Designed for robust database monitoring and analysis capabilities to help uncover database errors, prevent data loss and simplify administration.
- **Fast Load® for Db2 for z/OS:** Helps minimize the time that your data is unavailable by reducing data load time and loads multiple tables or multiple partitions concurrently.
- **Quick Copy for Db2 for z/OS:** Creates fast, consistent, and accurate Db2 image copies (up to eight image copies during execution) without impacting data availability.

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