

CA Subsystem Analyzer for DB2 for z/OS



At a Glance

CA Subsystem Analyzer for DB2 for z/OS (CA 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.

Key Benefits/Results

- **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 CA Detector® for DB2 for z/OS (CA Detector) to view SQL activity that referenced a table or index.

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

CA 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 CA 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

CA 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 indexspaces 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.

- **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 CA 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 CA 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/Solutions

CA Subsystem Analyzer integrates with these CA Technologies products:

- **CA Detector® for DB2 for z/OS.** When CA Subsystem Analyzer requires SQL statement information, it moves in context to CA Detector to perform any drill-down activity on the SQL.
- **CA Chorus™ Software Manager (CA CSM).** Aids the installation and maintenance of CA Subsystem Analyzer.

For more information, please visit ca.com/db2

CA Technologies (NASDAQ: CA) creates software that fuels transformation for companies and enables them to seize the opportunities of the application economy. Software is at the heart of every business, in every industry. From planning to development to management and security, CA is working with companies worldwide to change the way we live, transact and communicate – across mobile, private and public cloud, distributed and mainframe environments. Learn more at ca.com.