

# CA Database Performance Suite for DB2 for z/OS



## At a Glance

CA Database Performance Suite for DB2 for z/OS helps increase database administrator (DBA) productivity by leveraging existing DB2 Real-Time Statistics (RTS), collecting new statistics on DB2 objects, and using them to automate DB2 housekeeping, utility scheduling and execution, and perform space management following user-defined thresholds. The included high-speed reorganization utility is designed to increase data availability and performance and save resources.

### Key Benefits/Results

- **Sophisticated analysis.** Gathers and uses comprehensive statistics to provide graphs, trending, and forecast information.
- **Flexible scripting language.** Let's you use pre-set conditions or customize your own.
- **Efficient processing.** Processes objects concurrently, allocates multiple buffers, exploits extended memory, and uses fast I/O technology.
- **Online reorganization.** Online reorganization allows read/write accessibility to DB2 data during reorganization.

### Key Features

- **Robust features.** Provides a set of seamlessly integrated components that let you define which DB2 objects to process and what actions to perform on those objects.
- **DB2 real-time statistics (RTS) utilization.** Uses RTS to evaluate conditions and trigger the appropriate actions.
- **Statistics collection.** Gathers and stores more than twice the number of statistics available in DB2 RUNSTATS alone.
- **Automated object maintenance.** Let's you set up thresholds that trigger the desired action without requiring user interaction.
- **Reporting.** Provides a complete online query and batch reporting system for viewing the results of statistics collection in easy-to-read reports.

## Business Challenges

Today, most DBAs have their hands full dealing with rapidly evolving systems and applications, leaving them with little to no time for the essential tasks of analyzing, tracking, managing, and optimizing physical DB2 objects. You need a solution that can conduct sophisticated analysis and proactively suggest corrective actions to keep your DB2 databases performing optimally.

## Solution Overview

CA Database Performance Suite for DB2 for z/OS analyzes and proactively takes corrective actions, helping to improve database performance and increase DBA productivity.

This suite includes the following products:

**CA Database Analyzer™ for DB2 for z/OS.** CA Database Analyzer has a sophisticated analysis engine that uses real-time statistics to provide graphs, trending, forecasting information as well as a flexible scripting language to proactively take corrective actions.

**CA Rapid Reorg® for DB2 for z/OS.** CA Rapid Reorg performs quick and effective DB2 data reorganizations to help increase data availability and performance and save resources.

## Critical Differentiators

**CA Database Analyzer for DB2 for z/OS provides:**

**Real Time Object Selection (RTOS).** Selects objects dynamically, based on whether they meet the specified action criteria, instead of requiring you to select them by name.

**RUNSTATS automation.** Automates the execution of RUNSTATS based on RTS.

**Automatic resize.** Resizes the PRIQTY and SECQTY for under or over allocated table and index spaces based on RTS.

**Automatic reorganization.** Runs REORGs based on predefined thresholds triggered by RTS values.

**Reporting options.** Generates reports to give DBAs insight into trends and help forecast events such as when a table space will go into another extent. Other reports include table row distribution, space analysis, free space analysis, index content analysis, column analysis, and frequency values.

## CA Rapid Reorg for DB2 for z/OS provides:

**Automatic Space Management.** During the reorganization process the datasets are redefined automatically. This is done by using specified allocation amounts, calculating the amount of space needed by the data sets and increasing or decreasing the size of the data sets by a specified percentage each time they are reorganized.

**Delete Processing.** During the reorganization process you can specify an SQL SELECT or DELETE to filter out the unwanted rows. The advantage of deleting rows this way as opposed to using the SQL DELETE is that all remaining data will be fully organized after the reorg with no wasted space.

**Log Monitor.** The high-performance mode provides a patented, alternative method for capturing log records of the object being reorganized. This eliminates the need to read log records from the log data sets. This technique is very efficient and can vastly reduce the time for the log apply phase.

## Related Products/Solutions

**CA Chorus™ Software Manager (CA CSM).** Aids the installation and maintenance of CA Database Performance Suite for DB2 for z/OS.

For more information, please visit [ca.com/db2](https://www.ca.com/db2)

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