

CA Fast Index[®] for DB2 for z/OS



At a Glance

CA Fast Index[®] for DB2 for z/OS (CA Fast Index) is designed to let you add indexes quickly and efficiently to large DB2 tables without burdening DB2 subsystem resources or interfering with the function of other applications.

Key Benefits/Results

- **Superior performance.** Creates indexes quickly and efficiently.
- **Minimal disruption.** Gathers data in a single pass and processes indexes concurrently to minimize I/O usage and maximize data availability.

Key Features

- **High performance and high availability.** Performs tasks in parallel to decrease processing time.
- **Ease of use.** Simplifies index creation via an online interface that assists with job creation, and automatic page set reallocation.
- **IBM compatibility.** Supports IBM CREATE INDEX and DROP INDEX syntax.

Business Challenges

The process of creating indexes on large tables can have a detrimental effect on a DB2 system. You need a solution that adds indexes quickly and efficiently to large DB2 tables without burdening DB2 subsystem resources or interfering with the function of other applications.

Solution Overview

CA Fast Index adds indexes quickly and efficiently without monopolizing resources or interfering with other applications.

- High performance and availability
 - External sorting of index keys: Uses an external sort package, which can be tuned for optimal performance, and eliminates contention in the DB2 work file database.
 - Concurrent sorting: Creates multiple indexes in a single pass and sorts the keys concurrently.
 - Index statistics collection: Collects statistics on new indexes during creation, without a separate RUNSTATS step.
 - Multiple index creation: Reads index keys for multiple indexes in a single pass.
- Ease of use
 - Online interface: Assists with CA Fast Check job generation.
 - Page set management: Reallocates STOGROUP- and VCAT-defined page sets during index creation.
- IBM compatibility
 - CREATE INDEX: Creates an index using the same syntax as a standard CREATE INDEX statement.
 - DROP INDEX: Supports the DROP INDEX statement.
 - Extended Logging: Supports the new v11 extended RBA and LRSN values for logging.

Critical Differentiators

- **Rapid processing.** Builds indexes rapidly and adds them to large DB2 tables without burdening DB2 subsystem resources.
- **CREATE INDEX and DROP INDEX syntax.** Supports standard IBM CREATE INDEX and DROP INDEX statements, which lets CA Fast Index change index keys.
- **Statistics collection.** Collects and stores catalog statistics as part of the index creation.
- **Concurrent processing.** Builds multiple indexes and collects statistics simultaneously.
- **Temporary indexes.** Lets you quickly build temporary indexes for periodic reports that would perform more efficiently with an index. You can delete the indexes afterward to save DASD space or reduce index maintenance.

Related Products/Solutions

CA Fast Index integrates with these CA Technologies products:

- **CA Database Analyzer™ for DB2 for z/OS.** Uses the catalog statistics collected by CA Fast Index during the index build.
- **CA Detector® for DB2 for z/OS and CA Subsystem Analyzer for DB2 for z/OS.** Track access requests to determine whether additional indexes are needed.
- **CA Chorus™ Software Manager (CA CSM).** Aids the installation and maintenance of CA Fast Index.

For more information, please visit ca.com/db2

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