

Product Brief

CA Secondary Index for IMS for z/OS

Key Benefits/Results

- **Save time.** Frees your developers from the need to include IMS Fast Path DEDB logic within each program.
- **Increase availability.** Setup utilities execute outside of IMS, so you can create indexes without impacting IMS availability or performance.
- **Improve flexibility.** Add one or more indexes to an existing database or rebuild indexes as needed.

Key Features

- **Index functionality.** Provides the same functions and facilities as IMS full-function secondary indexes.
- **Region access.** Supports secondary index access from message regions, BMP regions, and batch DLI and DBB regions.
- **Index database type.** The index database type can be almost any IMS database type; however, HISAM databases and DEDBs are recommended.
- **Testing.** Use HIDAM or HDAM databases with IMS full-function secondary indexes for testing.
- **No application changes.** New secondary indexes can be created, put to use, and automatically maintained without requiring changes to the application programs that access the data.
- **Symbolic pointers.** These pointers mean the primary and index databases do not have to be reorganized together.

At a Glance

CA Secondary Index for IMS for z/OS (CA Secondary Index) helps your organization build and maintain Data Entry Database (DEDB) secondary indexes without necessitating any application program changes.

Business Challenge

If your organization is like most, you use secondary indexes to improve performance, reduce the elapsed time of application programs, and process DEDB databases sequentially. However, prior to IMS 12, IMS does not allow you to create secondary indexes on Fast Path DEDBs, so you must create and maintain these indexes using code within each application program.

Organizations can experience a significant cost savings by removing the processing from the application programs and utilizing a product to automate this index building and maintenance process.

Solution Overview

With streamlined index creation, definition, and management features, CA Secondary Index helps you reduce the time, effort, and human error associated with implementing, maintaining, and administering your IMS Fast Path DEDB database applications.

Critical Differentiators

CA Secondary Index offers a host of functionality that helps you streamline the process of creating and managing comprehensive secondary indexes on DEDB databases.

CA Secondary Index offers a host of features, including:

- **Index Extractor and Index Builder.** These offline utilities create and rebuild indexes. Indexes can also be automatically created when an application program loads the database.
- **Application programs are link-edited with the IMS DLI call interface routine supplied with CA Secondary Index.** In this way, application program changes are not needed.
- **Call Interceptor.** This routine intercepts the DL/I calls issued by the application program. If a call does not involve secondary indexes, the call is passed directly to IMS. Otherwise, the Call Interceptor performs secondary index processing as part of the application's original DL/I call.
- **Command Control Manager.** This common component helps you issue IMS commands in sets and across all the IMS systems in an IMSplex.

Related Products/Solutions

CA Secondary Index can create a file of root keys for input into the randomizer analysis capability in CA Database Analyzer™ for IMS for z/OS.

For more information, please visit ca.com/ims