

CA Quick Copy for DB2 for z/OS



At a Glance

CA Quick Copy for DB2 for z/OS (CA Quick Copy) provides you with backups of DB2 data by making single or multiple image copies at high speeds. As databases grow in size and complexity, the windows of opportunity to perform database backups shrink. CA Quick Copy is designed to provide consistent and accurate image copies. It supports full or incremental image copies, makes cumulative incremental copies and copies application table spaces, indexes and DB2 Catalog and Directory objects.

Key Benefits/Results

- **SNAPSHOT support.** Supports SNAPSHOT point-in-time and instant copies.
- **Superior performance.** Creates copies quickly with minimal downtime for objects.
- **Dynamic allocation.** Dynamically allocates image copy data sets using user-defined symbolics and automatically determines the DASD space needed.

Key Features

- **Enhanced performance and usability.** Helps optimize backup performance, including parallel copying of partitions and non-swappable execution. Simplifies the task of creating regular image copies.
- **SNAPSHOT support.** Leverages intelligent hardware SNAPSHOT capabilities to create IBM DB2 utility-formatted image copies.
- **Performance flexibility.** Lets you adjust processing options to fit your site.
 - Offers three choices for application access to the data while the copy is in progress.
 - Gives you full control over whether modification bits are reset or not.
 - Supports the ability to restart snapshot copies.
 - Can recall migrated DB2 data sets across various archival products to provide the correct allocation for dynamically allocated image copy data sets and prevent B37 ABENDs.
- **zIIP Exploitation.** Offloads significant CPU processing time onto specialized engines.

Business Challenges

As databases grow in size and complexity, the windows of opportunity to perform database backups shrink, CA Quick Copy is designed to provide consistent and accurate image copies. It supports full or incremental image copies, makes cumulative incremental copies and copies application table spaces, indexes and DB2 Catalog and Directory objects.

CA Quick Copy helps you prepare for a rapid recovery in the event of disaster, limiting impact on daily business operations and data availability. The information required to re-establish the DB2 tables is available for fast resumption of business operations, and CA Quick Copy can leverage intelligent hardware SNAPSHOT capabilities to improve backup performance and application availability—as well as offer INSTANT recovery.

Solution Overview

CA Quick Copy provides backup of the DB2 data, indexes (if requested) and DB2 Catalog and Directory data sets to form a complete set.

CA Quick Copy can copy tablespaces, indexes, and LOB tablespaces.

Support of SNAPSHOT point-in-time and instant copies ensures fast and reliable data recovery and utilizes the speed of the intelligent hardware.

Supports most IBM DB2 copy utility syntax and creates image copies compatible with those created by the IBM copy utilities.

CA Quick Copy provides the following features that ensure reliable and flexible processing and enhance usability:

- Using wildcards for object naming
- Copying of pre-defined lists of objects created with the Object List Manager
- Dynamic data set allocation
- Auditing
- Creation of up to eight copies from a single pass through the data (you can also specify tablespaces and indexes in a single copy statement)
- Restartable snapshot copies (if a snapshot copy fails after CA Quick Copy has saved the checkpoint data, the copy can be restarted)
- Recall of migrated data sets

Critical Differentiators

CA Quick Copy provides the following unique features:

- Scans of the SYSIBM.SYSCOPY for duplicate data set names before executing the copy.
- Updates of modification indicators, which can affect performance.
- Three different access types to the DB2 objects (no access, read-only access, or read-write access) by applications during the copy.
- Intelligent hardware SNAPSHOT support:
 - Improve backup performance and application availability—as well as offer INSTANT recovery.
 - Temporary SNAPSHOT allows for creating sequential copies with limited interruptions.
 - SNAPSHOT INSTANT creates copies instantly and allows SHRLEVEL CHANGE for no interruptions.
 - SNAPSHOT INSTANT CONSISTENT creates copies with consistent data and no interruptions. The copies can be registered to the SYSIBM.SYSCOPY table and used for recovery.

Related Products/Solutions

CA Quick Copy integrates with these CA Technologies products:

- **CA Merge/Modify™ for DB2 for z/OS.** Provides the COPY-IMAGE-COPY function to make additional copies.
- **CA Fast Recover™ for DB2 for z/OS.** Uses CA Quick Copy image to copy data sets and invokes CA Quick Copy to make the recovered objects available sooner.
- **CA Recovery Analyzer for DB2 for z/OS.** Supports CA Quick Copy image copy data sets.
- **CA Fast Load for DB2 for z/OS and CA Rapid Reorg for DB2 for z/OS.** Invoke CA Quick Copy to generate inline copies.

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

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