

Data Propagation

Data Sheet



CDB Software, Inc.

CDB/[®]Delta V7.4.0

CDB/Delta for DB2[®] for z/OS[™] is a flexible, high-speed data propagator tool. With the flexibility to filter results by time, user, object or any information in the log, including row data, users can extract exactly the information that they need. With several output formats to choose from and column selection ability, users can extract the information they need the way they need it to fit any situation. Through log pre-processing techniques and ground-breaking “SERVER” technology, CDB/Delta is the fastest data propagator solution available. Without the requirement for DATA CAPTURE like most propagation tools have, CDB/Delta not only uses less resources to capture the changes you need, it reduces the overall impact on your system by reducing the need for logging. With the ability to eliminate intermediate changes throughout the day and produce a single change per row, Delta reduces the amount of changes that need to be propagated.

Key Benefits

- No Data Capture Required
- Server technology for high speed extract
- Log preprocessing to eliminate multiple reads of the DB2 log and reduce the run time of the extract
- Extensive selection criteria to allow the user to select only the data needed
- Several output formats to give the user the information in the way it is needed
- Ability to eliminate intermediate steps and produce a final row result only

The Challenge

As your applications process changes you want to propagate those changes to a Data Warehouse possibly on another platform. Data Propagator products have requirements for Data Capture Changes and intense DB2 Log processing which have a significant negative affect on the throughput of your core applications.

Many data propagators run too long or can't handle the amount of changes being put through. Many require you to break up your propagation into many jobs throughout the day. This doesn't always help, especially if your changes come in large groups.

The CDB Solution

CDB/Delta uses DB2 Image Copies and Archive Logs to generate a Data File or SQL to undo or redo logged changes. The changes you capture can be filtered many ways; by time, source of the change, type of change, or even actual row value.

Delta can produce data files with all changes or Delta can squeeze out the intermediate changes to

produce the minimum changes to get the target system current. These files can be used to load a Data Warehouse directly or feed an ETL process even on a different platform in a different database, without affecting the original applications.

Delta can also produce SQL to undo specific errant work or reset a test environment. By preprocessing the log on a regular basis, the changes are put in a compressed repository to be gathered at any time without ever having to go back to the DB2 log.

Fast

Pre-processing the log throughout the day means that when it is time to propagate changes, the work is fast and easy. Delta can quickly go to his data repository and return any data requested in any format. If you need another format, no extra processing of the DB2 log is necessary.

Efficient

The logs can be setup to be stripped every time a log is archived. With this automatic feature, if your changes increase in the middle of the day, the Striplog process will automatically be invoked more often.

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There is no need to try to schedule the jobs to run at the right time. Your insert processes drive the entire mechanism.

Flexible

Delta can return your changes in several formats to fit every need. Delta can produce SQL UNDO/ SQL REDO files, DSNTIAUL, EXTERNAL, UNLOAD and ARCHIVE formats, many of which give the option to pad or not pad variable length fields.

Important and unique features

- **Asynchronous processing**

The processing of the DB2 logs is run in advance as Archive logs are written. The actual Delta command then runs very fast using input that has been efficiently consolidated.

- **No Data Capture**

With CDB/Delta there is no need to alter your tables to Data Capture Changes. Data capture hampers the system with excess logging that eats up log dasd. CDB actually strips the log down to only vital information. The CDB Repository is only about 20-30% of the DB2 log.

- **SQL or Data File**

Delta can create SQL to Redo

or Undo changes. These SQL statements can be in physical page sequence or RBA sequence. Alternatively, Delta can create data files in one of many formats such as: DSNTIAUL, EXTERNAL, UNLOAD, ASCIIDEL, ARCHIVE.

- **Extensive Filtering**

Delta can filter by time; Type of change such as Insert, Update, Delete, or Massdelete; Source of change such as Authid, Plan, UOW; or actual row value (before or after).

You control what columns are included when creating a data file and you control the commit frequency when creating SQL. Delta can be tailored to your exact needs.

- **Filtering intermediate results**

CDB/Delta can filter out intermediate results. For example if you have an inventory system where sales and deliveries are constantly updating quantity on hand, you can have the Delta generated Data File or SQL to Undo or Redo all the changes skipping the intermediate results and just update the quantity on hand once to the final value.

- **Different table name**

When using CDB/Delta to create SQL undo/redo records, you can specify a different table name

to accommodate propagating to different tables on the same system.

- **Part of greater Architecture**

The asynchronous process of stripping the DB2 Log is part of a greater architecture. The data derived from stripping the log is also used by the CDB Audit, Clone, Copy, Application Recovery, Disaster Recovery, and Active Standby products.

- **Server Technology**

CDB's Server Technology provides for maximum possible parallelism and fastest possible elapsed time. The submitted batch job can invoke subjobs or Servers to perform work so that processing is spread out across address spaces or even sysplex nodes.

About CDB Software

CDB Software, Inc. is a leader in data management solutions for DB2 z/OS. CDB focuses its business on DB2 for z/OS to provide unique and innovative solutions that enable companies to expand their DB2 system to meet business needs while controlling the overall cost of the mainframe. Founded in 1985, CDB is a privately held corporation based in Houston, Texas with offices worldwide.

For more information visit:

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