



Automated DB2 Reorganization

DB2 MasterReorg® for z/OS

Together with MasterCopy and MasterCopySet, **MasterReorg** is part of the MASTER-UTIL line, an automated software suite ensuring reorganizations, restores, and backups.

? The problem

DB2 Tablespaces and Indexspaces rapidly become disorganized as you add, delete, and update data.

You need to reorganize your data, but questions arise:

- ◆ Does your data need to be available 24/7?
- ◆ How to manage ERPs containing thousands of objects (SAP)?
- ◆ What are the most disorganized DB2 objects?
- ◆ How many reorganizations are possible during the time allotted by the user?

! The MasterReorg solution

- ◆ **MasterReorg** is a program for automatically and selectively reorganizing DB2 objects in a controlled utility batch window
- ◆ **MasterReorg** selects the objects to be reorganized out of the thousands of objects
- ◆ **MasterReorg** runs only the reorganizations that can be completed within the allotted time
- ◆ **MasterReorg** automatically recovers the object if reorganization fails
- ◆ **MasterReorg** handles the complete reorganization process without batch analysis and without batch JCL generation.



The advantages of MasterReorg

- ◆ The only tool of its kind on the market
- ◆ It optimizes use of utility batch windows by performing a maximum number of reorganizations within the allotted time
- ◆ It guarantees application performance by first reorganizing objects that are or will be penalizing performance
- ◆ Its online option ensures 24/7 data availability
- ◆ It analyzes the candidate objects very rapidly and efficiently (eliminating the need to run IBM Runstats).

We are prepared to demonstrate to you the excellent return on investment you will achieve with MasterReorg.



**Our software products are distributed world-wide.
Our technical support is there to serve you 24/7.**

DB2
Administration

Operational
Integrity

Performance of
DB2 Applications

Data Compression

Optimized Management of Reorganizations in the Utility Batch Window

MasterReorg automatically optimizes use of the utility batch window allocated to administrative processes.

The DBA selects a list of objects to be analyzed and a time allocated to the reorganizations.

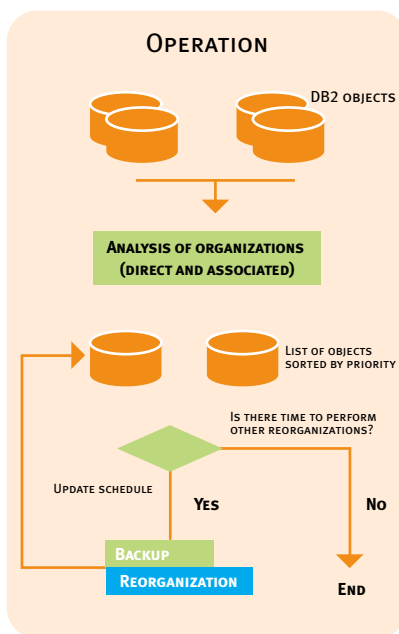
Analysis, Ordering, and Scheduling of Reorganizations

MasterReorg ranks reorganizations by decreasing order of disorganization and generates its processing schedule based on the resources allocated.

Iterative Update of the Processing Schedule

The schedule generated takes into account the time allocated to reorganizations and makes sure they are finished before the deadline. **MasterReorg** updates the schedule after each process taking the host resources available and current system load into account.

The concept of a deadline is not considered by traditional operational automation, meaning that a reorganization may be started even if there is not time to finish it. Use of the utility batch window is not optimized and few objects are reorganized.



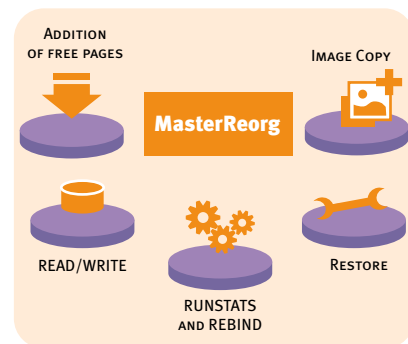
Dynamic Reorganization of Objects

- ◆ The objects that are the most disorganized or are about to become disorganized are determined without the use of prior Runstats
- ◆ Priority is given to the most disorganized objects
- ◆ As many simultaneous reorganizations are started as allowed by available resources
- ◆ At the end of each reorganization, the next reorganizations that can be completed within the remaining time are selected.

The estimated time of each reorganization is readjusted based on the actual time of the reorganizations just completed.

Additional Features

- ◆ The simulation option (batch and interactive) shows the objects that would be reorganized by running **MasterReorg**
- ◆ During execution, **MasterReorg** continuously updates a historical database accessible from the interactive interface
- ◆ **MasterReorg** guarantees the state of the data on opening of the TP. The error cases are managed and an automatic restore takes place in case of an error
- ◆ A copy option generates one or more Full Image Copies after each reorganization
- ◆ **MasterReorg** ensures data availability by an option that leaves the data available for read access during reorganization
- ◆ Runstats and Rebinds can be scheduled immediately after reorganizations by **MasterReorg**
- ◆ To prevent the data from becoming disorganized too rapidly, **MasterReorg** allows reorganizations to be performed less frequently by intelligently distributing the available space. An option allows adjustment of the number of free pages around the update hot spots in the tables or indexes.



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