



Automation of DB2 Image Copies

DB2 MasterCopy® for z/OS

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

? The Problem

- ◆ A company can be paralyzed if its data is corrupted by a computer crash or an unsuitable backup and restore strategy
- ◆ It is a priority for Informations Managers to ensure data integrity at all times
- ◆ It is a major necessity to have a secure backup strategy and fast restore procedures
- ◆ In case of a software or hardware problem, the data downtime must be limited to a minimum
- ◆ These administrative processes run in a smaller and smaller utility batch window.

! The MasterCopy solution

- ◆ **MasterCopy** is a unique solution that automatically manages the backup copies (FIC and IIC) of DB2 Tablespace
- ◆ **MasterCopy** uses the restore criteria defined on the site
- ◆ **MasterCopy** applies the constraints of the utility batch window
- ◆ **MasterCopy** ensures that all the objects required for a recovery are available at all times
- ◆ **MasterCopy** is a unique fourth generation solution providing an automated dynamic backup and restore strategy
- ◆ **MasterCopy** frees the DBA of basic activities to allow them to control scheduling of sensitive operations.



The advantages of MasterCopy

- ◆ It manages Full Image Copies (FIC) and Incremental Image Copies (IIC)
- ◆ It ensures consistent deletion of the backup copies and log files when no longer needed
- ◆ It automatically integrates time constraints (utility batch window, frequency, number of backups, and backup preservation time)
- ◆ **MasterCopy** selects the objects to be backed up based on generic name criteria, the requirement for a backup, and the estimated times.

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



**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 Copies in the Utility Batch Window

MasterCopy automatically manages backup copies of DB2 Tablespaces based on the restore criteria defined on the site, and takes time constraints into account (utility batch window).

MasterCopy manages both FIC (Full Image Copy) and IIC (Incremental Image Copy).

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

Analysis, Ordering and Scheduling of Copies

MasterCopy ranks copies by order of importance of execution and integrates time and relation constraints so that all the processes are run in the right order and establishes its processing schedule based on the resources allocated.

Iterative Update of the Processing Schedule

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

A set of coefficients kept up to date based on machine performance allows estimation of the time required for each FIC.

A Simple Operating Model

- ◆ Groups of objects are defined based on generic name criteria (e.g. DB1 %, TS1 %)
- ◆ The execution parameters to be used are defined (e.g. five days between FICs).

Based on the parameters defined in the groups of objects and the execution parameters, backups can be in three states:

- Mandatory copy (maximum time between two FICs reached or Tablespace in CopyPending state)
- Optional copy (update limit not reached)
- Copy unnecessary (minimum time between two FICs not reached).

DBA Strategy Managed by MasterCopy

MasterCopy takes into account the minimum number of FICs to be saved and the time during which Tablespace restore must be possible (parameters defined during execution or in the object groups).

MasterCopy ends by consistently deleting the objects not needed for recovery (old logs, FICs, IICs).

For each object to be processed and each parameter, **MasterCopy** uses the most restrictive group specifying a setting for the parameter (or else it uses the default settings).

Additional Features

- ◆ The simulation option (batch or interactive) gives advance information on the planned work schedule
- ◆ During execution, **MasterCopy** continuously updates a historical database accessible from the interactive interface.

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