DB2 Information Management Software

IBM DB2 Change Accumulation Tool for z/OS, Version 1.4

Highlights

- ***Enables you to recover database objects quickly and precisely***
- ***Produces mini-logs that contain backup information about database objects of interest***
- ***Enables conversion of SHRLEVEL Change image copies to SHRLEVEL REFERENCE image copies without impacting production***
- ***Allows for the creation of multiple image copies***
- ***Supports SYSLGRNX, reducing the log records and archive log files needed***
- ***Provides the most current data for your recovery processes***

The data you need for proactive recovery planning

When you need to restore only certain data to an IBM DB2® database, you don't want to take the system offline for a long time in order to restore the entire database.

IBM DB2 Change Accumulation Tool for z/OS®, Version 1.4, supports the fastest possible recovery by enabling you to proactively collect and store backup information about the objects that most interest you, reducing the time you need to recover them.

IBM DB2 Change Accumulation Tool lets you set the scope and specificity of image copy creation and create data sets (mini-logs) that hold backup information about objects of interest. Then you can quickly restore specific database objects with precision and minimal disruption. You can also create multiple image copies so you have the information you need for both local site and recovery site DB2 start modes. Additionally, you can write changes directly to the underlying objects or table spaces to recover them. And you can choose whether to write changes to image copies, VSAM files or both. When writing to a VSAM file, you can choose either to read to the end of the log or select a point in time prior to the end of the log to perform data recovery. This saves time and allows you to recover data to the point in time before an application runs so that data changes don't recur.

With DB2 Change Accumulation Tool, you can combine the most recent image copy with existing incremental image copies, mini-logs and information from the DB2 log to make a new image copy. You can also create up to four copies from the existing image copy, or create image copies of all catalog tables except SYSIBM.SYSCOPY.

DB2 Change Accumulation Tool offers the ability to generate consistent copy without impacting production by allowing you to seamlessly convert SHRLEVEL Change image copies to SHRLEVEL REFERENCE image copies whenever possible.

DB2 Change Accumulation Tool lets you specify the precise point in time at which you want to make an image copy. This produces an image copy that incorporates data up to the current point in time, a recent quiesce point, a specified relative byte address (RBA) or a specified log record sequence number (LRSN).

Reading the right information

When recovering an object, you want that object available as soon as possible. Minimizing the amount of DB2 log that must be read in order to locate the objects in question is key to fast recovery.

DB2 Change Accumulation Tool helps to minimize the log read task by extracting portions of the DB2 log that pertain only to objects of interest. DB2 Change Accumulation Tool can produce mini-logs that contain DB2 log information for a specific table space (or spaces). Mini-logs are stored in a database maintained by the tool; during recovery scenarios, they can be used instead of the entire DB2 log.

Mini-logs shift the I/O time spent reading vast portions of the log that contain no relevant data to non-critical times. This occurs even when SYSLGRNX is factored in.

The new mini-log control table (MCT) maintenance function lets you selectively delete rows from the MCT according to database, table space, index space, partition, date and age. This keeps the MCT from exceeding acceptable size and losing valuable mini-log information.

A wide range of functions

Making precise point-in-time recovery of database objects simple and reliable, DB2 Change Accumulation Tool:

- *Combines image copies and relevant log records to give you the most current and accurate data backup.*
- *Maintains data integrity without recovery to RBA.*
- *Processes data up to a log point established by a stand-alone quiesce utility run.*
- *Supports user-defined allocation parameters such as BUFNO, NCP and SMS fields.*
- *Produces only the required image copies needed for recovery by recognizing when there are no updates to apply.*
- *Supports all members in a data-sharing group, such as the appropriate bootstrap data sets (BSDSs), log ranges and log records.*
- *Allows parallel reading of data-sharing members' logs, greatly enhancing performance by reducing the amount of time spent reading logs one at a time.*
- *Offers an interactive system productivity facility (ISPF) interface that enables you to create batch jobs through ISPF dialog and to store and run them at a later time.*
- *Reduces the amount of log records and archive log files needed for processing by supporting SYSLGRNX.*

IBM tools for database recovery

DB2 Change Accumulation Tool is part of an extensive portfolio of IBM database recovery management tools, including IBM DB2 Archive Log Accelerator, IBM DB2 Log Analysis and IBM DB2 Object Restore. DB2 Change Accumulation Tool supports DB2, Version 7 or later, on IBM z/OS.

Each of these affordable, easy-to-use tools is precisely designed to optimize the performance and 24x7 availability of a key operational asset—your enterprise database.

For more information:

Please contact your IBM representative or IBM Business Partner, or visit our Web site at: **ibm.com**/software/data/db2imstools.

When ordering IBM DB2 Change Accumulation Tool for z/OS, Version 1.4, please refer to program number: 5655-F55

IBM Corporation
Silicon Valley Laboratory
555 Bailey Avenue
San Jose, CA 95141
U.S.A.

Produced in the United States of America
12-05

GC27-1052-03