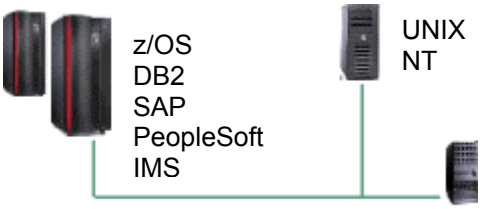
BCV4

For Extra Quick Access to Cloned DB2 Systems



Fast Availability of SAP and DB2 Clones

Product Description

BCV4 is a product that does everything necessary to automatically set up a working DB2 system after you have created full-volume copies on disk. How you create the volume copies is unimportant. Its conception began with the demand from administrators in the areas of DB2, SAP systems, storage management and system programming for very fast access to DB2 clones. The idea of using BCV's for day-to-day operations is not new but the speed at which BCV4 makes these clones fully functional is extraordinary. After processing through BCV4 the target volumes may be used by standard DB2 and z/OS (OS/390) access methods.

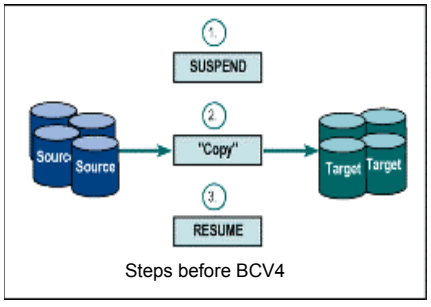
Benefits & Uses

- Dramatically reduce the cloning process time of z/OS systems from days to minutes.
- 'Make-useable' to any image entire copies of cloned DB2 systems
- Improve turnover times to programmers and users
- Ability to make cloning a scheduled batch process
- Automation that eases demands on DBA, Sysprog, Storage, SAP & PeopleSoft groups
- Increase productivity with timely availability of information to data warehouses, application servers, etc.
- Parallel running of evaluations, queries and reports
- Creation of test systems from production systems for testing, debugging, etc.
- Creation and testing of new versions and releases of applications with production copies

Technical Highlights

- BCV4 offers complete 'make-usable' functionality after the creation of the mirrored environment, where all necessary work is carried out in a single job sequence
- BCV4 creates internal jobs, which when submitted carry out the required rename/recatalog work to make the system useable
- BCV4 is controlled by simple parameters
- The system programmer or DBA creates the BCV4 parameter table and submits job.
- BCV4 is "vendor independent" and will work with TimeFinder*, Snapshot*, FlashCopy*, Peer-to-Peer Remote Copy, ShadowImage*, NanoCopy*, ADRDSSU utility, etc.
- BCV4 adapts the volume VTOC and VVDS
- BCV4 creates new UCATs and recatalogs the files
- BCV4 adjusts DB2 entries: Catalog/Index, Bootstrap, Logcopy, Logs, Table Spaces, etc.

The Cloned Environment is available within 15 minutes using BCV4



Steps before BCV4

Problems Avoided by using BCV4

After using standard hardware vendor's mirroring solutions in a z/OS (OS/390) environment one ends up with volume, dataset-name and catalog conflicts. Specialised tasks are required to make such a mirrored copy usable. Even more consuming work is required to get such a duplicated DB2 based system up and running (e.g. SAP/R3) with all references to the original names changed to the new copy's names.

In the z/OS (OS/390) world such volumes may be used only as backups when on the same LPAR, since the mirrored files still have the same dataset names and therefore:

- they cannot be cataloged on the same system
- the catalog points to the source files
- the VVDS and VTOC index names are identical to the original names
- the ENQ feature of OS/390 prevents a parallel update of different files with the same dataset-names
- the DB2 internal catalog still points to the source volume

Duplicate VVDS names, duplicate VTOC index names and hundreds or thousands of duplicate dataset-names therefore prevent the immediate use of the target volumes. In addition there are problems with the DB2 internal catalog structure. What is required is a consistent renaming procedure for the files and tables. This consistent renaming can be achieved with BCV4.

Real-Time Sequence using BCV4

Time	Source System	Target System
23:50	SET LOG SUSPEND	
00:00	Create Target Environment e.g.Split hardware mirroring	Create copies
00:05	SET LOG RESUME	Rename the target datasets Correct the VTOC and VTOC-index Correct the VVDS Catalog the target datasets
00:10		Correct internal DB2 structures Correct SAP to match
00:15		Start the target environment

Course of events

The figure above shows how the cloned system is made available inside **15 minutes**
Based on an SAP/R3 4.6D environment with **70,000 datasets** and over **300 volumes**.

Solution to a Well-Known Problem

Everyone knows the problem…making cloned DB2 systems available is a timely and tedious process. BCV4 gives you an innovative solution that is both quick and simple. By decreasing the time and pain of cloning, you increase the availability of cloned systems and the satisfaction of end-users.

Contact us for a free 30-day trial.

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