

BMC Application Restart Control

Automatically control checkpoint pacing and restart batch jobs without application changes

PRODUCT DESCRIPTION

BMC Application Restart Control (AR/CTL) enables you to resume failed or interrupted batch applications from the most recent checkpoint rather than from the beginning of the job. You can often implement checkpoint/restart functionality with no changes to application code or jobs.

BUSINESS CHALLENGE



Many organizations run a significant amount of work in batch mode, but shrinking windows shorten the time available to run batch jobs. When a batch job fails, it must be restarted at the point of failure or at the beginning of the job—after recovery of affected databases and files. Manually searching for the last checkpoint is time consuming and inefficient. Restarting from the wrong checkpoint can result in errors, duplicate entries, omitted updates, or other problems.

BMC SOLUTION

BMC Application Restart Control selects the right checkpoint every time, eliminating errors and the need to restart your restart. Faster restarts minimize contention between batch jobs and online processing. AR/CTL helps you determine the best balance between performance, restart time, and checkpoint overhead by controlling the checkpoint frequency outside the application.

BMC Application Restart Control




-  Checkpoint
-  Failed or interrupted batch applications

KEY FEATURES

BMC Application Restart Control selects the right checkpoint every time, eliminating errors and the need to restart your restart.

- **Automatic checkpoint** – Simplify and speed up the process of implementing checkpoint/restart logic into application programs
- **Optimal checkpoint logic** – Modernize IMS and DB2 applications by modifying the frequency of checkpoints and commits
- **Application working storage** – Capture and restore an application program’s working storage areas in main memory, allowing the program to resume processing at the last checkpoint
- **Program exception handling** – Automatically redirects “bad” input data that causes SOC7 abends into a reject file and lets the application continue

KEY BENEFITS

- **Improve data availability** and integrity by reducing errors
 - **Quickly handle jobs** just before a scheduled outage by ending them at a checkpoint
 - **Minimize implementation requirements** by ensuring easy retrofit into existing applications
 - **Support application programs** written in COBOL, PL/1, and Assembler
-  BMC Application Restart Control enables you to resume failed or interrupted batch applications from the most recent checkpoint rather than from the beginning of the job.

PRODUCT DETAILS

Application modernization: Many application programs that were written several years ago are no longer efficient because IBM hardware and software has changed. Applications that take too many checkpoints (IMS) or commits (DB2) are costly, but it can be challenging to find them. BMC Checkpoint/Commit Frequency Analyzer is a no-charge utility that examines your IMS and Db2 applications to determine how frequently they are taking checkpoints or commits. Once you know which applications are taking too many or too few checkpoints or commits, you can use the AR/CTL Checkpoint Pacing feature to manage the frequency. You will see immediate improvements in processing costs and locking issues - all with no programming changes required.

Product integration: AR/CTL is integrated with other BMC products to provide suspend-and-resume processing to obtain a point of consistency required for reorganization or recovery in BMC Backup and Recovery Solution for IMS™, BMC MAXM Reorg/Online for IMS™, BMC Fast Path Online Restructure/EP, and BMC REORG PLUS for DB2™ Online Feature.

AR/CTL for IBM® DB2® provides the following DB2-oriented features:

- SQL return code handling – Intercepts a defined SQL return code received during application program processing and issues a user-defined abend and reason code
- Cursor repositioning – Eliminates the need to add logic to your DB2 applications to track and store the cursor position for use in checkpoint restart
- Batch attachment facility – Performs the attachment to DB2 on behalf of the application and runs in an “attach only” mode to provide the DB2 attach for programs not using checkpoint/restart services

AR/CTL for IBM IMS™ provides the following IMS-oriented features:

- Restart with no code changes – Fully supports and enhances the IMS Extended Restart Facility, requires no application code or JCL changes, and eliminates the need to change application code to call a third-party restart program

- Flat file management – Supports and manages IMS GSAM files and native file techniques, and makes converting flat files to GSAM unnecessary
- Checkpoint management – Externally filters excessive checkpoint activity to provide significant savings in elapsed time and CPU consumption
- DBRC conversion aid – Automatically provides a logging environment to avoid having to retrofit DL/I JCL when converting an application run under DBRC

AR/CTL for IBM VSAM provides the following VSAM-oriented features:

- Local VSAM access services for VSAM data sets that are accessed exclusively by a batch VSAM application program – Provides checkpoint support and automatic back-out support for VSAM files
- DBMS synchronization – Automatically synchronizes VSAM checkpoint/restart activity with DB2 or IMS checkpoint processing
- VSAM file sharing – Supports remote VSAM file sharing between batch applications and IBM CICS regions executing on the same or different IBM z/OS images, which allows batch application programs to update VSAM files while they are online to CICS and in full update mode and makes it possible to avoid converting a VSAM file to DB2 or IMS to provide anytime access to the file



FOR MORE INFORMATION

To learn more about BMC AMI DevOps for Db2, please visit [bmc.com/ims](https://www.bmc.com/ims)

About BMC

BMC delivers software, services, and expertise to help more than 10,000 customers, including 92% of the Forbes Global 100, meet escalating digital demands and maximize IT innovation. From mainframe to mobile to multi-cloud and beyond, our solutions empower enterprises of every size and industry to run and reinvent their businesses with efficiency, security, and momentum for the future.

BMC – Run and Reinvent

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