APPLICATION RESTART CONTROL for DB2

Version 3.8.00 and 3.9.00
September 26, 2014

Tracking number ISS04097879, ISS04128240, ISS04148010, and ISS04341877: Error message BMC150074E might be issued, followed by a user U1785 abend, when you migrate from IBM DB2 CM to DB2 NFM

BMC is alerting users to a problem in the APPLICATION RESTART CONTROL (AR/CTL) for DB2 product. The problem affects all currently supported IBM DB2 versions.

Issue

AR/CTL might issue error message BMC150074E AR/CTL for DB2 WAS UNABLE TO FIND CURSOR NAME IN DECLARE CURSOR STATEMENT FOR PLAN and terminate with a user U1785 abend when the following conditions exist:

- You are migrating from IBM DB2 CM to DB2 NFM: compatibility mode to new function mode.
- The AR/CTL DB2 attach type option is set to the recommended value, DSN.
- The DEFER CURSOR WITH HOLD CHECK (ARCDRWHC) option is set to No (N).
  - When set to No (N), AR/CTL cannot determine the filter for the DECLARE CURSOR statement.
  - When set to Yes (Y), AR/CTL fetches and analyzes only data related to SQL statements that are used in the current execution.

Message BMC150074E is issued because the DB2 attach type option setting, DSN, automatically forces the DEFER CURSOR WITH HOLD CHECK option to No (N). Consequently, AR/CTL must build an AR/CTL cursor control block (ARDCCB) and an AR/CTL cursor control block extension (ARDCCBE) for every version of every DECLARE CURSOR statement that is part of the DB2 plan being used, even if it is not used at execution time.
Note
AR/CTL uses this information for cursor repositioning and the AUTO checkpoint feature.

As a result, 8 kilobytes of storage are needed for every version of every DECLARE CURSOR statement that is part of the DB2 plan being used.

Resolution
To prevent the problem from occurring, perform the following tasks before migrating from DB2 CM to DB2 NFM:

- Set the DEFER CURSOR WITH HOLD CHECK option to Yes (Y). This action causes AR/CTL to defer building ARDCCBs and ARDCCBEs until the cursor is opened, reduces the amount of storage used, and improves initialization time.

- Ensure that the DB2 attach type option is set to CAF instead of DSN. Except for IBM IMS environments, BMC no longer designates DSN as the recommended value.

Note
If you have questions, contact Customer Support at 1 800 537 1813 (United States or Canada) or call your local support center.

Where to get the latest product information
To view the latest BMC documents, see the Support Central website at http://www.bmc.com/support.

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