BMC Subsystem Optimizer for zEnterprise

Version 1.0.00
February 12, 2015

Tracking number BPJ0883, BPJ0957, and QM001855220: The product now provides an installation verification program (IVP)

BMC is announcing a new feature in the BMC Subsystem Optimizer for zEnterprise (Subzero) product.

Overview of the IVP

Subzero now provides an installation verification program (IVP) that you can use to ensure that the product is installed and set up correctly in your environment. The IVP (a transaction named BRD1) runs on the IBM CICS product to update your IBM DB2 database, IBM IMS database, or both.

With the IVP, you can verify that a CICS transaction can be run against a local database, or against a remote database (via Subzero) without changing the program, the CICS transaction definition, or the DB2 bind process. For example, you can run the IVP with your current CICS and database configuration, and then run it again after enabling Subzero and placing the database on a different LPAR.

Affected databases

The Subzero IVP works with the following IBM databases:

- The DB2 database is part of the DB2 IVP that IBM supplies in job DSNTEJ1 in the DSNSAMP library. The Subzero IVP updates the dsn8vvr.DEPT and dsn8vvr.EMP tables.

  **Note**

  The dsn8vvr qualifier depends on your release of DB2. You provide this qualifier in the job that binds the IVP.

- The IMS database is named DI21PART and is part of the IMS IVP that IBM supplies. Subzero updates the PARTROOT segment in the DFHSAM04 program specification block (PSB).
Sample library members

The following members of the sample library contain programs and JCL for compiling, defining, and running the IVP:

<table>
<thead>
<tr>
<th>Member</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRDIV$D</td>
<td>Documentation about how to use the IVP</td>
</tr>
<tr>
<td>BRDIVAL</td>
<td>JCL to pre-process, assemble, and link the IVP</td>
</tr>
<tr>
<td>BRDIVBN</td>
<td>JCL to run the DB2 BIND command</td>
</tr>
<tr>
<td>BRDIVCD</td>
<td>JCL to define the BRD1 transaction to CICS</td>
</tr>
<tr>
<td>BRDIVCMD</td>
<td>REXX program to run operator commands and obtain output from the IVP</td>
</tr>
<tr>
<td>BRDIVEX</td>
<td>JCL to run the BRD1 transaction</td>
</tr>
<tr>
<td>BRDIVP1</td>
<td>Assembler program that issues updates to the DB2 and IMS databases</td>
</tr>
</tbody>
</table>

As indicated in the JCL comments, you must edit the JCL to specify valid information for your environment, as follows:

- JOB statement
- Subzero high-level qualifiers (HLQs) and data set names
- If applicable, DB2 version number, HLQ, and subsystem ID (SSID)
- If applicable, IMS version number, HLQ, and whether to access SDFSRESL or RESLIB
- CICS version number, HLQ, and console name

Using the IVP

Use the following procedure to prepare the Subzero IVP for use and execute the IVP either as a batch program or through a CICS console.

**Before you begin**

Complete all procedures to install and set up Subzero in your environment.

**To prepare and run the IVP**

1. Edit and run the JCL in member BRDIVAL to assemble and link the IVP.
2 If applicable, on every DB2 system in which the Subzero IVP will run, edit and run the JCL in member BRDIVBN to bind the IVP.

3 Edit and run the JCL in member BRDIVCD to define the IVP transaction (BRD1) to CICS.

4 Run the IVP transaction.

You can run the IVP transaction from a CICS terminal or in batch by editing and running the JCL in member BRDIVEX.

You can run BRDIVPEX in either of the following ways:

- Use the REXX EXEC script in member BRDIVCMD to take advantage of the TSO CONSOLE command. This technique is valid only if the CICS subsystem has a defined console. (The IBM CICS IVP defines a console.) The REXX script can issue any operator command and display the output.

- Issue operator commands through JCL. In this case, the command output is written to the console and the CICS JES message log.

Select the method that works best for you, and delete or comment out the unneeded step from the BRDIVEX job.

5 To control the actions that the IVP is taking, provide input to the BRD1 transaction.

For more information, see “IVP transaction input” on page 3.

The IVP issues messages to explain the actions it is taking. All IVP messages start with the string BRD.

**IVP transaction input**

While the Subzero IVP transaction (BRD1) is running, you can use the following syntax to issue input to BRD1:

```
BRD1 action [psb] [count] [key]
```

Observe the following guidelines:

- The **action** option is required if you specify any of the other options.

- Include at least one space between options.

- To omit an option that is between other specified options, substitute a comma (,) or period (.) and retain the required space. The comma or period is a placeholder,
not a separator. (The comma or period is not required for options omitted from the end of the statement.)

Example

To add one record to the DB2 database with a key of 12345:
BRD1 DB2 , 1 12345

To add the default number of records to the IMS database through the default PSB:
BRD1 IMS

To add the default number of records with a key of 12345 to the IMS and DB2 databases:
BRD1 BOTH , , 12345

The variables represent the following values:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
</tr>
</thead>
</table>
| action   | The action that the IVP should take
          | Replace action with one of the following values: |
|          | — **DB2** (or **D**) updates the DB2 database. |
|          | — **IMS** (or **I**) updates the IMS database. |
|          | — **BOTH** (or **B**) updates the DB2 and IMS databases. |
|          | — **DL** lists all rows that the IVP added to the DB2 EMP table. |
|          | — **DD** deletes all rows that the IVP added to the DB2 EMP table. |
|          | — **IL** lists all records that the IVP added for the IMS PARTROOT segment. |
|          | — **DL** lists all rows that the IVP added to the DB2 EMP table. |
|          | — **ID** deletes all records that the IVP added to the IMS PARTROOT segment. |
| psb      | The name of the IMS program specification block (PSB) that the IVP should use
          | You can omit this option if you are using the default value DFHSAM04, or if the IVP is not
          | updating the IMS database. |
| count    | The number of records or rows that the IVP should add to the database
          | If you omit this option, the IVP uses the default value (3). |
| key      | The unique key (1 through 8 numeric digits) for the record or row that the IVP is adding to the database
          | **Note:** If the IVP is adding more than one record or row, a duplication error occurs. |
Entering BRD1 with no options displays an abbreviated listing of input options; entering BRD1 ? displays syntax Help.

Obtaining the PTFs

PTF BPJ0883 contains the new sample library members to implement the IVP.

BMC is delivering BPJ0883 with co-requisite PTFs in maintenance bundle 8 (product version 1.0.00.08). The bundle identifier is PTF BPJ0957. If you have version 1.0.00.08 or later, no further action is required. The following message in the Subzero address space identifies your product version:

```
BMCBRD0002I BMC Subsystem Optimizer for zEnterprise version + 01.00.00.08 BPJ0957 (S004).
```

BMC recommends using BMC Internet Service Retrieval (ISR) to obtain PTFs. For information about ISR, see the maintenance information in the Installation System documentation.

You can also obtain PTFs from eFix PTF Distribution Services (eFix). You can access eFix directly at http://apps.bmc.com/support/efix.cgi or from the support site. For information about eFix, see the online Help.

**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.

Notices such as flashes, technical bulletins, and release notes are available on the website. You can subscribe to proactive alerts to receive e-mail messages when notices are issued or updated. For more information about proactive alerts, see the Support Central website.

© Copyright 2015 BMC Software, Inc.

BMC, BMC Software, and the BMC Software logo are the exclusive properties of BMC Software, Inc., are registered with the U.S. Patent and Trademark Office, and may be registered or pending registration in other countries. All other BMC trademarks, service marks, and logos may be registered or pending registration in the U.S. or in other countries. All other trademarks or registered trademarks are the property of their respective owners.