

BMC Checkpoint/Commit Frequency Analyzer

Quickly find applications that are taking too many or too few checkpoints/commits

PRODUCT DESCRIPTION

BMC Checkpoint/Commit Frequency Analyzer analyzes your IMS and Db2 application programs to see if they are using an optimal number of checkpoints (IMS) or commits (Db2). By pacing checkpoints/commits efficiently, you can reduce costs and improve performance.

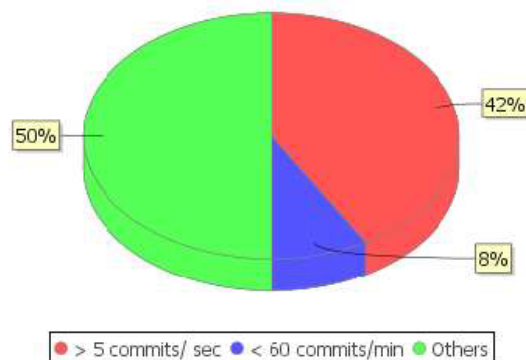
BUSINESS CHALLENGE

Many application programs that were written several years ago are still in production. Those programs were efficient at the time they were developed, but IBM hardware and software has changed. Applications that take too many checkpoints/commits drive unnecessary expenses and elongate response time. Conversely, applications that are not taking enough checkpoints/commits may be holding locks too long, degrading performance. Finding the applications that are taking too many or too few checkpoints/commits is challenging.

BMC SOLUTION

BMC Checkpoint/Commit Frequency Analyzer examines your IMS and Db2 applications to determine which programs are taking too many or too few checkpoints/commits and are wasting resources or causing locking problems. Once you know which applications are taking too many or too few checkpoints or commits, you can use the Checkpoint Pacing feature of APPLICATION RESTART CONTROL (AR/CTL) to manage checkpoint/commit frequency. You will see immediate improvements - all with no programming changes required. The following chart shows an example of the utility's results.

Commit Distribution



KEY FEATURES

BMC Checkpoint/Commit Frequency Analyzer:

- Identifies which IMS and Db2 applications are taking too many or too few checkpoints/commits
- Is easy to install and run
- Is a no-charge utility for BMC mainframe customers

KEY BENEFITS

With BMC Checkpoint/Commit Frequency Analyzer, you can:

- Save CPU costs and reduce wait times for applications that are taking too many checkpoints/commits – and possibly delay CPU upgrades
- Reduce locking issues and wait times for applications that are taking too few checkpoints/commits

◀ BMC Checkpoint/Commit Frequency Analyzer is available at no charge to BMC mainframe customers.

PRODUCT DETAILS

Checkpoint/commit frequency analysis: IMS applications take checkpoints and Db2 applications take commits to enable rapid restarts and to release locks. While checkpoints and commits are needed, they add overhead. Applications that include hard coded checkpoints or commits may not be working optimally with the latest hardware. If those applications are still in production today, they are causing unnecessary expenses and degrading response times. By analyzing an application's checkpoint or commit frequency, you can easily determine which applications could be updated to reduce costs and response times.

Cost savings calculator: By using the savings calculator provided, you can enter your MIPS used and cost per MIPS to estimate the savings that checkpoint pacing (or application changes) would provide.

Graphical user interface: BMC Checkpoint/Commit Frequency Analyzer provides an easy to use graphical user interface (GUI) for analyzing checkpoint/commit frequency and producing reports.

Reporting: BMC Checkpoint/Commit Frequency Analyzer reports provide summarized and detailed information about the number of checkpoints/commits in your applications. To optimize checkpoint/commit frequency, you could use the Checkpoint Pacing feature of APPLICATION RESTART CONTROL (AR/CTL). AR/CTL can pace checkpoints for an application program—allowing checkpoint processing to occur or return control to the application program without taking the checkpoint, depending on whether the checkpoint meets the checkpoint conditions you have defined. Checkpoint pacing is defined and performed externally to the application program. AR/CTL makes the pacing decision dynamically, based on real-time factors such as the characteristics of the program execution, the number of calls, and the time between checkpoints. Checkpoint pacing criteria can change dynamically while the program is executing. Checkpoint pacing allows the application program to issue checkpoints each time the program reaches a logical point during processing, without concern for operational issues such as checkpoint overhead.



FOR MORE INFORMATION

To learn more, please visit 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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