

IBM IMS Buffer Pool Analyzer for z/OS, Version 1

Highlights

- **Projects the impact of buffer pool changes**
- **Provides detailed statistical reports**
- **Offers easy installation and use**
- **Complements other offerings in the IBM Data Management Tools portfolio.**



IMS Buffer Pool Analyzer gives you a picture of how buffer pool changes might impact performance.

Replace guesswork with informed decisions

Every database buffer pool has different characteristics, so it's hard to know how changes might affect each one. Often, you have to resort to guesswork, hoping that your tuning activities won't impede I/O rates.

IBM has developed a solution that enables you to make more informed decisions: IBM IMS™ Buffer Pool Analyzer for z/OS™, Version 1. Unique in its functionality, Buffer Pool Analyzer provides statistical analysis that helps you determine the impact of changes to IMS online and batch job buffer pools—before you make them.

Buffer Pool Analyzer can:

- *Determine if adding or subtracting buffers will improve the performance of a selected buffer pool*
- *Model buffer pool usage to determine I/O rates for various buffers in each pool*
- *Identify which databases most heavily use each database subpool*
- *Provide I/O rates and buffering requirements for a specific database to facilitate required buffer pool changes for database structure alterations*
- *Perform “what if” scenario analysis.*

Visualize the impact of change—before it's too late

For both the actual buffer pool configuration and a model configuration (with different buffer pool or database data set assignments), Buffer Pool Analyzer provides a report for each subpool that shows:

- *Subpool information, including the pool configuration, buffer request rate and actual performance information*
- *Database information, including a list of all the database datasets with activity in that subpool, along with the hit ratio, buffer request rate and I/O rate for each dataset*
- *Projections, including various buffer pool sizes, subpool hit ratio, I/O rate and buffer life.*

In addition, for each buffer pool size projection, Buffer Pool Analyzer calculates a number that can be used to compare subpools. The “marginal reduction” shows which subpools would reduce I/O the most, per 1K of storage added to the pool.

Enjoy easy installation and use

To install Buffer Pool Analyzer, you perform the SMP/E installation steps, and then set up a couple of started tasks and an APF library. There's no need to make any job control language changes.

Then, you can start a task, providing the IMSID or jobname you want to monitor, as well as the length of time you want it to be monitored. The tool dynamically gathers configuration information, buffer pool requests and I/Os, and writes all the required information to a GTF trace file. Afterward, you can run the report job to see how your database buffer pools are performing and whether it makes sense to change them.

Benefit from complementary tools

IMS Buffer Pool Analyzer supports IMS Version 6 and later running on IBM OS/390® and z/OS. As part of an affordable, comprehensive portfolio of database performance management tools from IBM, the offering complements a similar product in the IBM DB2® Tools portfolio, IBM DB2 Buffer Pool Analyzer for z/OS.

You can combine IMS Buffer Pool Analyzer with two other IMS tools for a comprehensive, performance-enhancing package. IBM IMS Database Control Suite for z/OS provides a focal point for database maintenance operations, while IBM IMS Performance Analyzer for z/OS delivers analytical performance, usage and availability reports. By giving you a clearer picture of your buffer pools, Buffer Pool Analyzer helps you achieve optimal performance of your IMS database.

For more information

Please contact your IBM marketing representative or an IBM Business Partner, or call 1-800 IBM CALL within the U.S. Also, visit our Web site at ibm.com/software/data/db2imstools

When ordering IBM IMS Buffer Pool Analyzer for z/OS, please specify program number 5697-H77.



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