Announcement   Buffer Pool Tool® Version *9.4*

With Group Buffer Pool Sizing/Prediction

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Responsive Systems announces **Version 9.4** of the industry leading, and worldwide standard, software for tuning DB2 for z/OS buffer pools, and Sysplex Group Buffer Pools - *Buffer Pool Tool for DB2*. This supports DB2 versions 8 & 9.

In addition to the greatly expanded functionality of V9.3 detailed below, V9.4 again expands the memory reporting area, and allows the number of Simulations of the Consolidated Reporting Facility (CONSREP) to be set at 8 instead of the default of 16. This reduces the 64Bit memory requirement when simulating very large buffer pools.

Version 9.3 Functions:

Data analysis capabilities:

- **Partition Analysis -** Object performance data is analyzed and presented both at a summarized, and individual partition level. This allows the performance analyst to see exactly which partitions have been used, how they have been accessed, and the detailed performance characteristics of the overall object and all its pieces.

- **Group Buffer Pool** performance data is presented, that allows the analyst to see how the primary pools affect GBP performance, and how GBP performance is helping or impacting primary pool performance. Sizing itself, is just the tip of the iceberg for tuning activity and performance across a sysplex.

- **New performance reports** show how shared objects are accessed by each member in the data sharing group, which is essential for performance analysis and tuning across the group.

- **DB2 memory consumption.** Shows the total amount of physical memory on your LPAR/System, the amount consumed by DB2, Fixed Frames, and both overall System and DB2 Address Space Paging rates.

Simulation and Performance Prediction capabilities - Group Buffer Pools:

- **New simulation capabilities** predict the performance effect of different pool sizes for each Group Buffer Pool, and the local pools on each group member. Simulation of group pool activity can support the activity of 32 members across a sysplex.

- **Cross-system replication factor** will show the user, at both pool and object levels, the *simultaneous cache frequency* of pages in different local pools
  - This evaluates the potential benefit of using the *cache all* option for an object.

- **Simulation** allows the analyst to specify the *cache* option for individual objects in a pool, and see the varying effects upon performance without impacting a production system.

Workstation Component

An enhanced workstation component provides additional levels of graphic analysis, and unique information not obtainable form any other product. Some pf the highlight of this upgraded version are:

- Sequential Scan costing for the entire system, and then at both the overall system, and pool level for the twenty most heavily scanned objects

- I/O costing that shows the CPU cost of I/O activity for the entire system, and then at both the overall system level, and pool level for the twenty most heavily I/O intensive objects.

- Graphic analysis of Group Buffer Pool Performance simulations/predictions of pool performance at different numbers of buffers, and with varying performance options.

- **DB2 memory consumption.** Shows the total amount of physical memory on your LPAR/System, the amount consumed by DB2, Fixed Frames, and both overall System and DB2 Address Space Paging rates.

Overall Performance Improvements:

Elapsed run times, and resource consumption is reduced for very large sets of analysis data, and consolidated reporting.

This enhanced version is available without cost to all licensed Buffer Pool Tool customers, and requires DB2 Version 8 or Version 9 as a pre-requisite.

Buffer Pool Tool for DB2

Report Info | Graphic Summary | Pool Info | Object Info | Expert Tuning | Scan Cost | I/O Cost | Sim Graph Analysis | Sim Cluster Analysis | Memory

Detail | Graph

Statistics LPAR		Statistics DB2 Master		Statistics DB2 Database	
Total # of frames	1,287,238	Used frames (average)	3,697	Used frames (average)	687,993
Fixed frames (average)	32,282	Used frames (maximum)	3,708	Used frames (maximum)	689,905
Fixed frames (maximum)	33,814	Used frames (minimum)	3,198	Used frames (minimum)	686,012
Fixed frames (minimum)	32,093	Fixed frames (average)	177	Fixed frames (average)	3,427
Free frames (average)	106,608	Fixed frames (maximum)	209	Fixed frames (maximum)	3,653
Free frames (maximum)	113,920	Fixed frames (minimum)	177	Fixed frames (minimum)	3,418
Free frames (minimum)	97,518	Paging rate (average)	0	Paging rate/Sec (average)	0
Paging rate/Sec (average)	0	Paging rate (maximum)	0	Paging rate/Sec (maximum)	29
Paging rate/Sec (maximum)	0				

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Memory Availability & Usage - Megabytes

Total Memory — Free Memory — LPAR Fixed Max Memory — Master/Database Memory — Database Fixed Max Memory

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