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Z PERFORMANCE & OPTIMIZATION

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tableBASE
OVERVIEW

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In-memory table manager

tableBASE® is a world-class table manager and programming solution that can help IT organizations solve a myriad of challenges with their mainframe systems, applications, processes and databases, including:

Batch processing

With an increasing amount of data to be processed, and less time to do that processing, optimizing the way in which data is accessed is paramount if you want to save money and increase utilization.

Transaction throughput capacity

System capacity is challenged by an ever- increasing number of transactions that a given machine must handle. The solution would seem to be limited to purchasing more processing power. But are there alternatives to this?

Resource usage

Increasing transaction rates seem to translate directly into a continual increase in mainframe resource requirements, such as CPU, MSUs, etc. Is there a way to mitigate this correlation?

Rules processing

Some of your most important applications—your mainframe-based rules processing apps—can be your most problematic. Rules take too long to change, and sometimes require program recompiles.

Key-Person Risk

Custom home-grown in-memory tools require in-house support. You need to focus in-house resources on revenue-generating projects instead.

Controlling costs

Transaction processing costs are a significant part of your overall operating costs. Managing these costs sometimes means “just pay more for now” or “take longer to complete the processing,” or both. Neither option is a particularly good way to do business.

Fraud detection

How can you better handle fraud detection in real time when you are stretched to the limit just handling transaction processing? The effectiveness of fraud detection solutions are often restricted by the amount of I/O required for every fraud detection instance.

Key problems solved by tableBASE

tableBASE can lower your costs and mainframe TCO, dramatically reduce batch processing time and optimize your MIPS usage, offering incredible performance benefits and more powerful and efficient applications. The following are some of the key problems addressed by tableBASE:

Batch processing optimization

tableBASE is the perfect solution for organizations that need help with batch processing: applications leveraging tableBASE can run 90% faster. Thus, implementing tableBASE in many I/O-intense batch applications will reduce the pressure considerably.

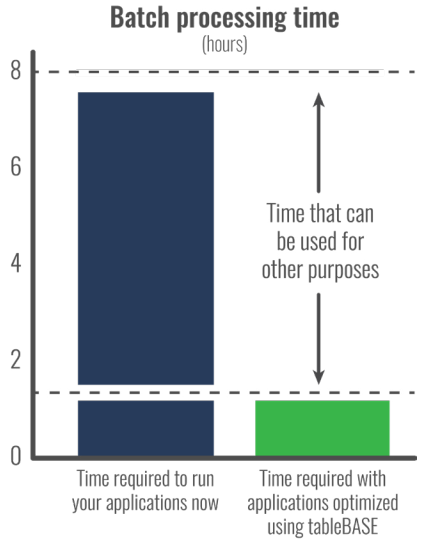

Figure 1: A worrisome situation in the batch window (left); Relief in the batch window (right)

Increase in capacity

tableBASE can dramatically improve the performance of Db2, VSAM or IMS systems. Performance increases of up to two orders of magnitude are possible over I/O intensive DASD systems—even those using advanced buffering techniques. This allows an increase in processing capacity, using virtually the same assets as before.

General reduction in mainframe resource usage

tableBASE in-memory optimization allows mainframe applications to process at an improved rate, using far fewer CPU, I/O, MIPS/MSU, or even real and cache memory resources. Fewer resources are needed for I/O, and more can be dedicated to actual processing.

Controlled operating costs

By powering mainframe applications to run faster and to use fewer mainframe resources, tableBASE helps to control operational costs. In effect, if applications run faster and use fewer resources, they and cost less to run. Applied to several applications, this can represent a yearly savings of 4% to 8% on operating costs. Further, this can help lead to less frequent system upgrades in environments experiencing constant growth.

Rules processing optimization

Legacy rules processing is very fast, but difficult to maintain. Using tableBASE, your business rules can be maintained outside of legacy applications, from highly maintainable high-performance in-memory tables. You can maintain or create rules in hours or days rather than weeks or months because you no longer rely on the availability of development personnel. The result is fast applications, fast rules processing, and the ability to very quickly react to rapidly changing market conditions.

Fraud detection optimization

Using DataKinetics tableBASE, your suspect card database can be stored in memory for optimized fast access. It can be accessed in real time, and it can be updated in real time. Fraud detection can run in real time as you are processing the transaction, even under an increased transaction load.

Lower cost per transaction

In an environment in which system resource consumption is reduced, the cost-per-transaction experiences a parallel improvement. tableBASE sharply reduces the number of I/Os used by mainframe applications, reduces significantly the CPU cost associated with those I/Os, and reduces the number of MSUs/MIPS required. In this way, tableBASE can reduce the cost per transaction in any I/O-intensive environment.

Home-grown utilities—Key-person risk mitigation

tableBASE can replace any in-house in-memory utility, freeing up development resources for use in revenue-generating projects. But more importantly, a mature, best-in-class off-the-shelf product like tableBASE, backed by a professional support group, is the best way to mitigate the key-man risk.

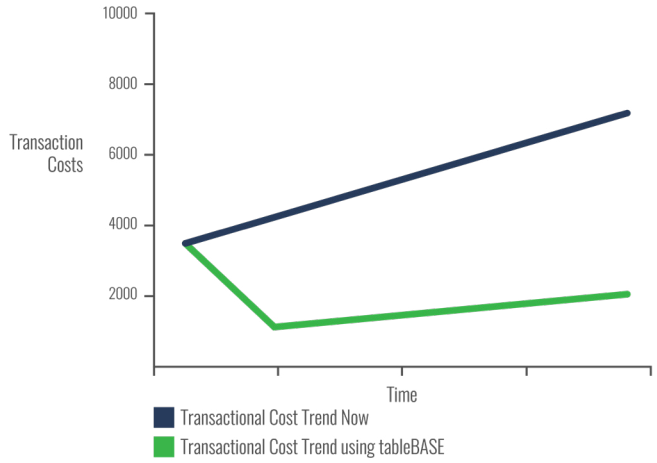

Figure 2: An improved transaction cost trend using tableBASE