Db2 z/OS Performance Data Collection and Exploitation

Industry wide, it is a known best practice to collect Db2 z/OS SMF data needed for proper Db2 system and application performance evaluation and troubleshooting. A sound methodology for designing, testing, and implementing the collection/reporting of Db2 z/OS performance and statistics data will provide the best opportunity for success. Improved collection and reporting of performance and capacity data will allow for the ability to do trend analysis, performance benchmarking and troubleshooting.

Challenges Addressed:

- Collection, storage, and evaluation (analysis and reporting) of Db2 z/OS performance and statistics (SMF) data
- Inability to coordinate/reconcile Db2 z/OS performance data with other z/OS SMF data, application instrumentation, and business metrics data
- Inability to provide Db2 z/OS performance and statistics data to help diagnose system and application problems
- Unknown value of collecting and storing Db2 z/OS accounting and statistics data
- Poor and costly performance data collection and storage strategies
- Unknown Db2 z/OS SMF data ownership
- Lack of knowledge/experience with current performance data-related products and their capabilities

Approach:

- Review current Db2 z/OS performance and statistics (SMF) data collection, storage, and evaluation configuration and processes
- Review current z/OS and other key mainframe product SMF data collection, storage, and evaluation configuration and processes
- Review current SMF data stakeholders
- Review current critical application instrumentation and key business metrics
- Define issues, remediation, test plans and perform/measure results
- Rollout in test environment(s) and perform comparison testing

Deliverables:

- Recommended roadmap for collection, storing, and evaluating Db2 z/OS performance and statistics (SMF) data – including reporting recommendations
- Recommendations for
    - Db2 z/OS system changes
    - Db2 z/OS SMF data ownership
    - Changes to z/OS and key mainframe software components (CICS, MQ, RMF, …) for SMF data collection

- Key application instrumentation and business metrics
- Ability to provide Db2 z/OS SMF data for diagnostic purposes
- Document all results and considerations