

InnovizeIT kombiniert mit EPV:

Der ideale Optimierungsprozess für DB2

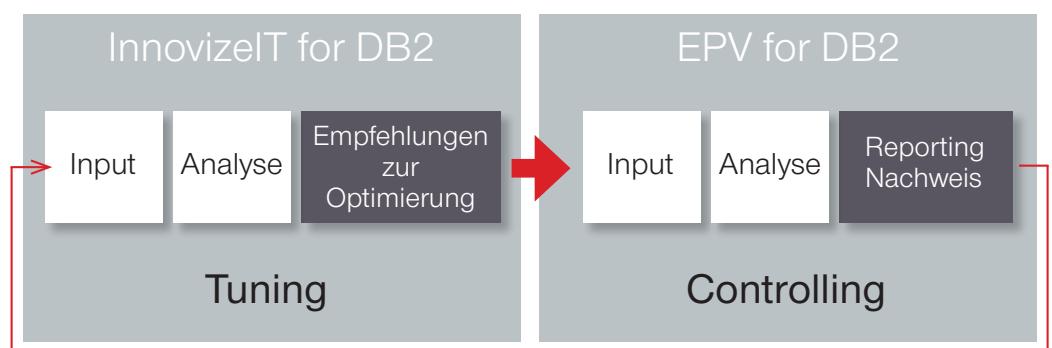


*„Man sollte auf alles achten,
denn man kann alles deuten.“*

(Hermann Hesse, Das Glasperlenspiel)

Die TPS DATA vertreibt zwei Produkte zur Optimierung der DB2-Landschaft: **InnovizeIT for DB2** und **EPV for DB2**. Die beiden Produkte ergänzen einander und decken somit den gesamten Prozess der DB2-Optimierung ab.
InnovizeIT: Ganzheitliche DB2-Untersuchung mit Aussprechen von Empfehlungen.
EPV: Dokumentation der Einsparungen und Verbesserungen, Aufzeigen von Anomalien.

Beide Produkte laufen nicht auf dem Mainframe, sondern erhalten ihren Input über Batch-Jobs mit anschliessendem FTP. In beiden Fällen wird keine Modifikation im DB2 vorgenommen. Das Lizenzmodell ist bei beiden unabhängig von der Rechnergröße (MIPS).



Idealer DB2-Optimierungsprozess



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InnovizeIT for DB2

Input

- DB2 metadata
 - Catalog and Plan tables for static SQLs and optionally for dynamic SQLs (statement cache).
- Monitoring information – two options are provided:
 - Active Programs list
 - Monitoring data file

Analyse

Most of the existing optimization products are focused on monitoring and pointing to the bottlenecks in the processes. InnovizeIT for DB2 is unique in that monitoring is only the first building block in its process.

Monitoring results are used to point to performance offenders, and then the product's automatic analysis of all database and application elements is employed to explain the performance sinks , and to provide powerful and proven recommendations for change. Implementing the product's recommendations results in significant operational cost reductions due to lower CPU utilization, increased transaction throughput and shorter batch windows. Where monitoring tools are used their outputs can be integrated with InnovizeIT resulting in a powerful enhanced value.

Empfehlungen zur Optimierung

Modifications

- DB2 definitions: Index columns, their order and uniqueness
- Tablespace definitions
- Index clustering options

Adding or removing indexes due to

- Duplicate or contained indices
- Cardinality analysis
- Low First Key Card
- Inefficient data access

Changing SQL statements

- Having high CPU and I/O consumption
- Accessing data through a non matching index
- To a better performing alternative

EPV for DB2

Input

- SMF records 30,2 + 30,3 + 70 + 72
- SMF Record 100, DB2 Statistic Trace, Class 1,3,5,6
- SMF Record 101, DB2 Accounting Trace, Class 1,2,3,7,8,10
- optional: SMF 102 records; IFCID 105,172 and 196 have to be activated
- optional: DSNZPARMS
- optional: DB2 catalog for database and index statistics
- To support the DB2 V10 functions package roll up, compressed SMF and storage statistics IFCID 225 has to be activated.

Analyse

Through automatic discovery techniques and built-in rules, based on more than 30 years know-how, EPV collects, relates and aggregates all necessary data transforming the bits and bytes in useful information, in a process completely transparent to the users.

The EPV mission is to develop products which provide high quality and ready to use information to customers allowing them to give a better service and save money by improving their Performance Analysis, Tuning and Capacity Planning processes.

Reporting/Nachweis

- DB2 critical events by DB2 subsystem, including navigable daily and monthly trends.
- DSNZPARM parameters and changes.
- DB2 configuration and changes.
- DB2 overhead estimate in MIPS and percentage of DB2 workload.
- Deadlock and timeout navigation up to the suffering plan , including navigable daily and monthly trends.
- Database and tablespace statistics, including navigable daily and monthly trends.
- EDM, DBD, Dynamic, Buffer pool and Group Buffer pool analysis, including navigable daily and monthly trends.
- Complete workload navigation by connection type from data sharing group up to the package level.
- Complete workload navigation by DB2 subsystems from data sharing group up to the package level.
- Navigable workload daily and monthly trends.
- Automatic logging and reporting of all the plans and packages.

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