



How SmartProduction for DB2 Works

SmartProduction for DB2 will locate logical inefficiencies within your applications, job flow, and utilities. The best candidates for improvement will be identified in simple, user friendly reports. Users can then retrieve an analysis of the inefficiencies, including solutions that will deliver immediate, dramatic improvements in production performance without making any modifications to the source code.

How to Use SmartProduction for DB2

SmartProduction for DB2 requires minimal input by the user. It's menu-driven, fill-in-the-blanks ISPF interface allows you to easily analyze your applications, in detail, from a number of different perspectives. This results in clear, comprehensive, and easy-to-use batch and online reports. Best of all, you can spend more time solving your performance problems rather than searching for and comparing the relevant information. The Case-Based Reasoning feature provides you with an explanation of each inefficiency, and provides specific solutions. This powerful feature contains an ever-increasing amount of tuning information to help ensure that your production environment is operating at peak performance.

SmartProduction for DB2 Benefits

Implement SmartProduction for DB2's solutions and:

- Increase user productivity and satisfaction by providing more online time
- Reduce your CPU and DASD consumption
- Save money by extending the life of current hardware investments and postponing the need for future upgrades
- Help mission-critical applications run faster
- Improve overall system utilization
- Reduce operating costs

SmartProduction for DB2 Optimization Strategies

SmartProduction for DB2 can detect a wide range of production inefficiencies (over 50) which, when resolved, can greatly reduce system resources utilization (e.g., CPU and I/O) and significantly cut job elapsed times.

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SmartProduction for DB2 applies the following four key strategies to improve the performance of the DB2 production batch workload:

- **Improve DB2 Application Efficiency**

Many site-developed DB2 applications are not as efficient as they could be. This causes a problem when the degree of inefficiency is significant.

Sample points: Large sorts could be eliminated via additional index; improper SQL commands performed under batch.

- **Increase DB2 Parallelism**

Many DB2 applications do not make use of the DB2 parallelism methods which allow to perform concurrent I/O and CPU. Using DB2 parallelism can significantly reduce elapsed time.

Sample points: An application does not make use of parallelism; parallelism has been requested, but is not honored by DB2 due to various problems.

- **Improve Efficiency of DB2 Housekeeping**

Many utility executions are performed in order to backup, restore, copy or reorganize the DB2 database. These utility executions often do not use all performance options available.

Sample points: Multiple utility executions could be combined into one utility execution; utility execution does not use proper SORT optimization techniques.

- **Eliminate DB2 Contentions**

Batch tasks are frequently delayed, or even aborted, due to DB2 contention problems. Eliminating (or at least greatly reducing) the occurrences of contentions can significantly reduce elapsed time.

Sample points: Deadlocks, timeouts, lock suspensions, lock escalations, rid pool failures, buffer shortages.

Hardware and Software requirements

SmartProduction for DB2 requires SmartProduction as a prerequisite. SmartProduction for DB2 supports all environments on which SmartProduction is executed.

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