



DB2 Application Performance Trace and Optimization

DB2 InfoTrace®

Together with InfoSimulation and InfoScope, **InfoTrace** is part of the INFO-OPTIMIZER line, a software suite ensuring the quality of DB2 applications throughout their life cycle.

? The Problem

- ◆ Today, DB2 applications are increasingly complex and the size of DB2 databases never stops growing
- ◆ A company needs to respond quickly to customers to gain a competitive edge
- ◆ It is crucial for a company to trace and improve performance throughout the life cycle of DB2 applications
- ◆ It is always necessary to be able to trace execution of an application whose performance is identified as below par.

! The InfoTrace solution

- ◆ **InfoTrace** is designed to provide a low-cost simple solution to performance problems of DB2 programs from design through production
- ◆ **InfoTrace** generates the information you need to fine-tune your DB2 application packages or plans
- ◆ **InfoTrace** allows you to analyze and explain, i.e. control the performance of DB2 applications.



The advantages of DB2 InfoTrace:

- ◆ It considerably reduces adjustment and maintenance times and provides a rapid return on investment
- ◆ It allows on-demand trace (you select the plans to be traced, the trace start time and how long it lasts)
- ◆ It offers a clear analysis of the access path selected by DB2 and the factors which led to this choice
- ◆ It makes recommendations for improving the performance of the queries analyzed
- ◆ It is very easy to use with an interactive ISPF interface.

We are prepared to demonstrate to you the excellent return on investment you will achieve with InfoTrace.



**Our software products are distributed world-wide.
Our technical support is there to serve you 24/7.**

DB2
Administration

Operational
Integrity

Performance of
DB2 Applications

Data Compression

A Flexible Reporting Tool: On-Demand Trace

InfoTrace allows you to select the plans to be traced and start traces when you want for as long as you want.

As soon as trace begins, InfoTrace collects the following data for the plan(s) concerned:

- ◆ Trace start and end dates and times
- ◆ Number of queries analyzed during trace
- ◆ For all the queries: total CPU time, elapsed time
- ◆ Number of data pages accessed, indexes accessed and work pages accesses
- ◆ Number of pages accessed because of reference integrity, etc.

When data collection is complete, you have all the information you need to analyze the selected package or plan.

Accurate Consolidation of InfoTrace and Plan_Table Data

It is not enough to collect the information required to tune a plan. It is also necessary to be able to analyze this data easily based on specific needs.

With **InfoTrace**, you can check all the data collected by **InfoTrace** and the Plan_Table data presented explicitly in user-friendly format.

Many sort commands are available for ordering the data according to the primary sort key selected by the user.

For instance:

- ◆ Rapidly determine the program in the plan that uses the most CPU resources
- ◆ Rapidly determine the queries that perform a sort because of a join.

The Plan_Table data is an indispensable complement to the data collected by **InfoTrace**.

Clear Analysis (EXPLAIN)

For each SQL query traced, **InfoTrace** gives a clear analysis of the access path selected by DB2 and the factors that led to this choice. There is never any trouble in interpreting the esoteric Plan_Table data.

Targeted Recommendations

Whenever possible, after analyzing the access path, **InfoTrace** makes recommendations for improving the performance of the query analyzed.

For instance, it may suggest modifying the index structure to add columns thereby eliminating data accesses in the case of a matching index scan with data reference.

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