

Administration, Availability, and Development Features of Teradata

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Abstract

This presentation on the NCR/Teradata Data Base Computer, the DBC/1012, begins with a brief history of the current product followed by an overview of its hardware architecture (AMPs, IFPs, YNet (ect...)). This serves as the basis for a description of data distribution techniques and the scalability features of the system. The presentation concludes with a brief discussion of features which ease System Administration, Support, and Application Development (such as "EXPLAIN", automatic continuous data reorganization, and internal support facilities necessitated by the massively parallel shared-nothing architecture).

The presenter, Bill Robertson, joined Teradata ten years ago during design and implementation of the initial release of the DBC/1012 Data Base Software. Subsequently, he managed groups involved in both product development and support of the Data Base Software. He is currently a member of Product Development within NCR's Teradata Database Business Unit in El Segundo California.

Distribution, Parallelism, and Availability in Nonstop SQL

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Abstract

In my talk, I will describe the important aspects of our distributed architecture, covering both it's strengths and weaknesses. I will talk about five aspects of the distributed DBMS that we have implemented: distributed dictionary, distributed data, distributed processing, location independence, and local autonomy.

For continuous availability I would like to mention three features that have been implemented:

1. On-line reorganization
2. Add, drop, split, move partition
3. opens on demand.

Finally I will talk about parallelism, both inter-transaction and intra-transaction parallelism, including how it allows linear scale-up and speed-up.