

Daytona®

The Daytona Database Management System (DBMS) – developed by AT&T Labs for use at AT&T and now available commercially – offers a full spectrum of data management and programming language services. It has all the data management basics: a query language (Cymbal®), indexing, updates, transactions, concurrency, and recovery. But this powerful DBMS goes far beyond the basics. Its unique low-overhead architecture leverages the inherent power of the underlying OS (Unix) scalability and management. As a result, Daytona gets from the operating system along the kind of services (e.g. locking file system, access control, scheduling, caching, low-level networking, etc.) that other DBMS get from their server processes. This paradigm allows previously unattainable power: a single Daytona DBMS server handles about 410 billion records in 40TB of disk space in a 24x365 environment.

Sample Applications

Daytona's OS-based administration, compression, and horizontal partitioning enhance database performance and management. System administrators can use the same tools to manage their instance as their server – so no special tools or training for database administration are necessary. Also, backups and archiving are a snap since the operations are file-based.

Data is stored in an ASCII-compatible format, which can be accessed and manipulated by any standard UNIX tool such as Perl or awk. If readability is not required, then data can be compressed 3:1 or better at the field and record level.



The operating cost savings through consolidation and database rationalization provide another compelling advantage. With Daytona, a business can combine ten database servers handling 1 TB database into a single server with a 10 TB instance. With its built-in compressions, 10 TB can be shrunk to 5 TB.

Using Daytona can reduce costs even further by requiring fewer staff resources for operation than needed for other DBMS. Based on average DBA salaries, use of Daytona can translate into savings of over \$500,000 per year in salary expenses to manage a database 10 times as large!



What's Unique about Daytona?

- Executes complex queries against billions of records within minutes
- Supports real-time reporting through innovative dirty cache management. As a result, it accepts multiple real-time update feeds and makes this data available immediately for reporting and analysis.
- Scalability potential is practically unlimited.
- Robust and flexible 4 GL (Cymbal) is both customizable and extensible.

For additional information, please contact us via e-mail at attip@att.com

