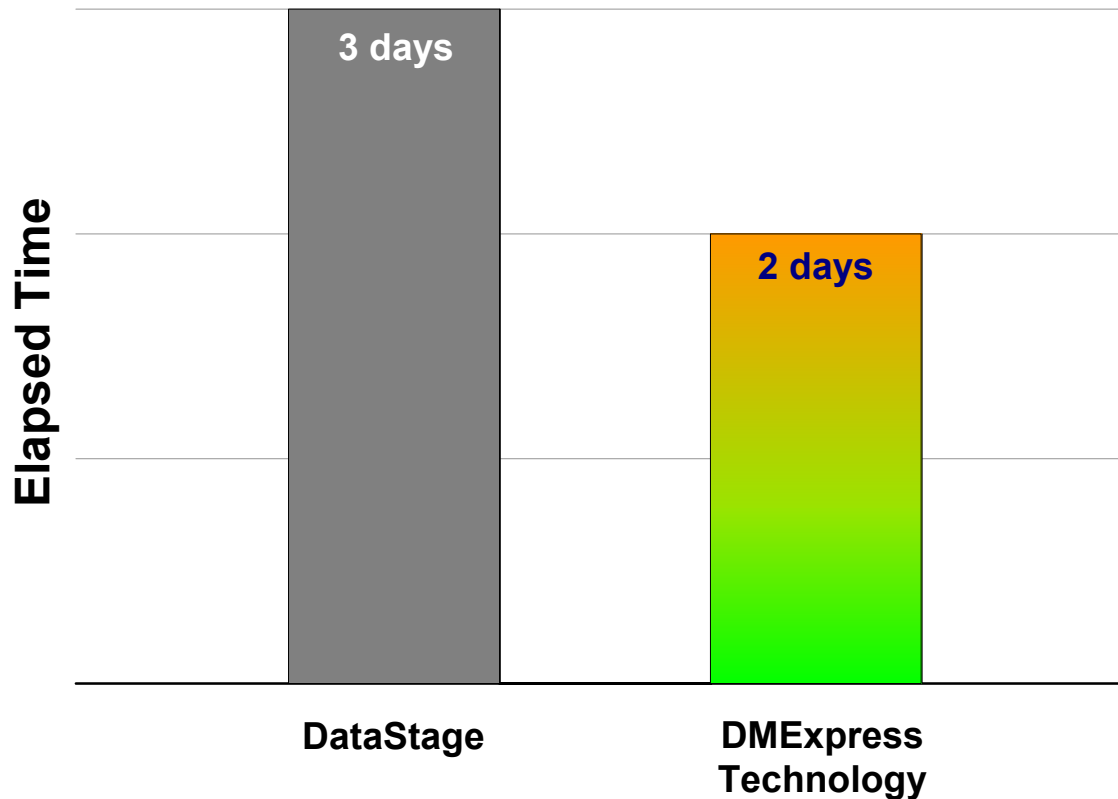


DMExpress. Get it done faster.



Investment Bank Cuts Client Profitability Application Processing Time by 33% with DMExpress Technology



Organizational Profile

- Leading investment banking company

Business Needs

- Reduce the elapsed time of a business intelligence application that examines customer account and product profitability

Environment

- Sun E10K with 24 CPUs
- Oracle 8i
- Solaris 2.6

Benefits

- Complementing DataStage with DMExpress technology reduces data processing time by 33%
- Easily integrates into ETL process



[Full Story](#) →

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The Challenge

A group within a leading investment banking company is responsible for processing customer data as part of a customer profitability project. The group designed a client profitability application for the project that examines customer account and product data in order to determine how much and at what rates the company's products have earned for their investment clients. The application uses a Sun E10K system with 24 CPUs and 20 gigabytes of memory running Solaris 2.6

As part of the application, the company keeps the current year data along with historical data from the two previous years in the operational data store (ODS). The ODS goes through about 50 billion calculations a month using Java and then the information is stored in an Oracle 8i database. The data warehouse loads the output tables of that ODS, which contains all of the financial data. They then extract it through PL SQL into time periods that provide the financial data by customer account and product in edited numeric (EN) format.

The data from the time periods is processed using DataStage, which then outputs financial files by time periods as well as by product, customer, organization and other types of keys. There are 36 files for regular time periods that are approximately 1 gigabyte each. There are also five summary time period files that are approximately 1.8 gigabytes each. The company then needs to create aggregates and order the data. The group responsible for the application found that DataStage's aggregation and ordering features did not provide the performance and functionality that they needed. With DataStage alone, the process was taking 72 hours.

The Solution

This time was excessive, so the company selected Syncsort's DMExpress technology to perform the aggregates and ordering. Once the aggregates are complete, the database is brought down. The database administrator runs several statistics with the aggregated files and other DataStage files. The data is then loaded into the data warehouse and different divisions from around the world query the information using Oracle Reports and Oracle Discoverer. When they run the ETL process with Syncsort's product, the old data is still up so they're able to perform queries against the processor while running their ETL process.

The Benefits

With the help of DMExpress technology, they were able to reduce the elapsed time to just 48 hours, an improvement of 33%.