

> DATADIRECT ODBC FOR SQL SERVER

DATADIRECT PERFORMANCE PHILOSOPHY

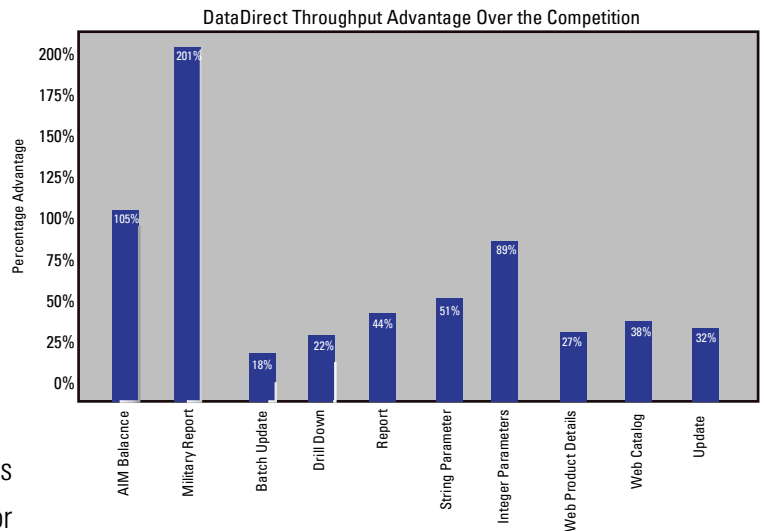
Performance is a mainstay focus of the Progress|DataDirect product line. While we make many investments across our product line, we make significant performance investments to the DataDirect products with every new release.

To meet the critical requirements of high performing and scalable data access, DataDirect investments have focused on maximizing the driver throughput efficiencies, allowing data to move rapidly and unimpeded between the application and the data sources – supporting the movement of complex queries and big data movement. Additional investment in efficient resource utilization allows DataDirect to deliver unparalleled flexibility across highly scaled and virtualized SaaS and cloud deployments.

This document will focus on performance advantages with the DataDirect Connect ODBC Driver for SQL Server. For even more information on our performance characteristics, the online Application Performance Calculator offers insight as to how DataDirect drivers perform across a variety of database use cases and scenarios. A driver sits at a critical position in the software stack as the key linkage between an application and its data.

FOCUS ON SQL SERVER

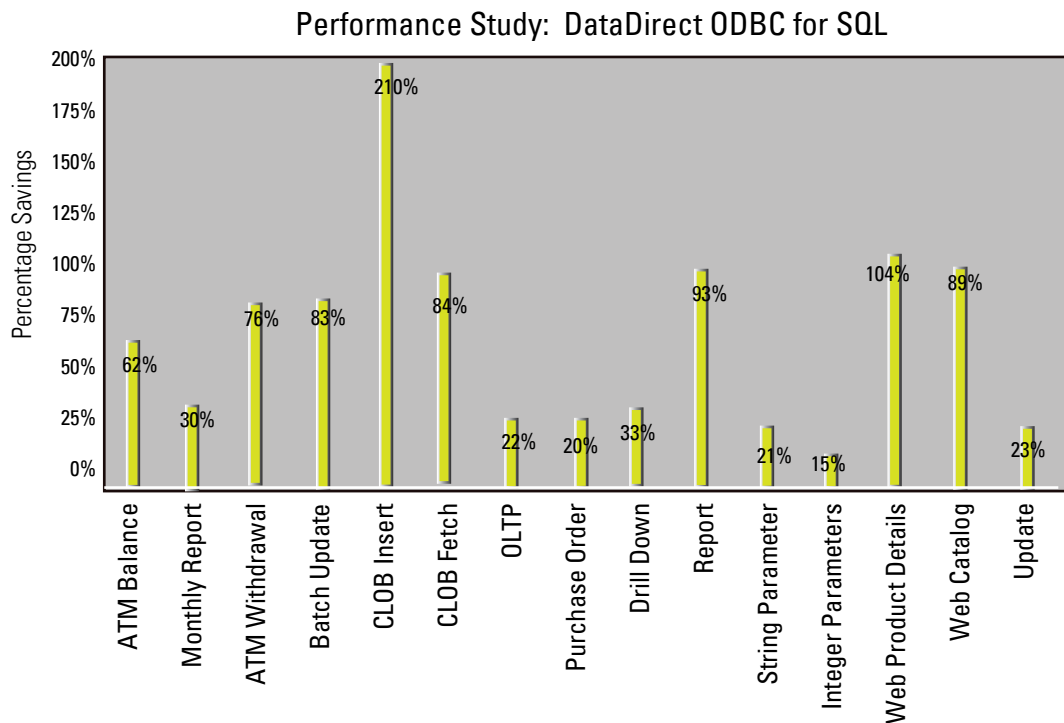
DataDirect has an elaborate Throughput Test Suite which measures how many rows per second the driver can move between SQL Server and an application in various read and write scenarios. In the CLOB Fetch use case we measure throughput with very large data and we are almost twice as fast as the competitive driver. Our goal is to maintain a significant advantage for both insert and query scenarios.



The Monthly Report use case illustrates a typical monthly report across accounts and contains string, numeric and binary data types in a consistent shape with repeating data. Here Connect for ODBC maintains a 200% advantage over a competitive driver.

In the ATM Balance use case we measure throughput with very large data and Connect for ODBC is twice as fast as the competitive driver. Our goal is to maintain a significant advantage for both insert and query scenarios.

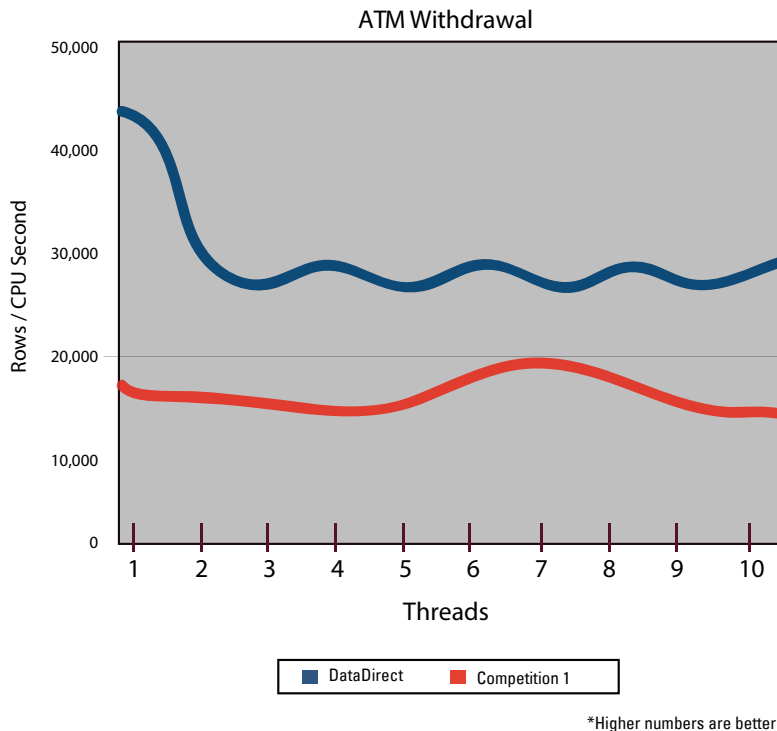
DataDirect also has a sophisticated Resource Utilization Test Suite to determine how much CPU time and volatile memory our drivers require compared with alternate driver solutions.



In the chart above, the positive green bars represent CPU time savings and positive red bars represent memory savings. In almost all of the use cases Connect for ODBC consumes significantly less system resources than the competition, which allows the underlying application to scale to support more customers without a need for expensive hardware investments.

We can drill down even further into CPU efficiency in the ATM Withdrawal use case. In this test we simulate checking an ATM balance by executing a parameterized select statement that returns a single row. The table below shows how Connect for ODBC can scale horizontally (adding more and more user load) while maintaining more efficient CPU usage over the competitive driver. Each thread represents approximate 10 users; in effect this test illustrates up to 100 concurrent users.

Maximizing CPU efficiency and minimizing memory use ensures that an application has horizontal scalability characteristics needed, especially in virtualized on-premise or SaaS hosted environments.



In summary, performance and resource utilization are key differentiators for the DataDirect products. We are aware there are alternatives for ODBC (often free) so each of the DataDirect ODBC drivers undergoes a battery of testing to ensure that it will outperform and outscale those alternatives for the majority of use cases that we see with our customers. These performance and scalability advantages, plus broad coverage of data sources and platforms, and support for advanced functionality such as application failover, security, and bulk load all help to make DataDirect the leading provider of standards-based database connectivity solutions.



PROGRESS DATADIRECT

Progress DataDirect is the only comprehensive provider of software for connecting the world's most critical business applications to data and services, running on any platform, using proven and emerging standards. Developers worldwide depend on DataDirect® products to connect their applications to an unparalleled range of data sources using standards-based interfaces such as ODBC, JDBC and ADO.NET, XQuery and SOAP. More than 300 leading independent software vendors and thousands of enterprises rely on Progress DataDirect to simplify and streamline data connectivity for distributed systems and to reduce the complexity of mainframe integration.



PROGRESS SOFTWARE

Progress Software Corporation (NASDAQ: PRGS) is a global enterprise software company that enables businesses to be operationally responsive to changing conditions and customer interactions as they occur – to capitalize on new opportunities, drive greater efficiencies and reduce risk. The company offers a comprehensive portfolio of best-in-class enterprise software spanning event-driven visibility and real-time response, open integration, data access and integration, and application development and deployment – all supporting on-premises and SaaS/Cloud deployments. Progress maximizes the benefits of operational responsiveness while minimizing IT complexity and total cost of ownership. Progress can be reached at www.progress.com or +1-781-280-4000.

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