



PDM - Connect Plus

ALEBRA

PARALLEL DATA
MOVER(PDM)

Product Suite

Connect Plus

Overview

Connect Plus is an optional component in the Parallel Data Mover (PDM) suite of solutions. It provides high-speed, production quality access to z/OS DB2 databases from programs running on Linux, UNIX or Windows (LUW) Systems. Additionally, it substantially reduces the z/OS CPU resources relative to all other cross-platform data access solutions.

Using the IBM DB2 Connect, LUW programs that contain embedded SQL statements are pre-compiled, compiled and bound to a z/OS database. These same programs, using Alebra's Connect Plus, can now seamlessly achieve much improved throughput and lower z/OS execution overhead without code changes. At execution time, Connect Plus will intercept these SQL calls aimed at z/OS DB2 databases and perform the SQL request in a dramatically improved manner. DB2 Connect licenses are only required on development servers to prepare the programs. Execution services are provided by Connect Plus.

A key ingredient of this solution is Alebra's innovative z/OpenGate transport. The z/OpenGate replaces conventional TCP/IP cross-platform communications with high-speed, highly efficient FICON/Fibre Channel connectivity between platforms. The results are higher bandwidths, lower latency and reduced processing overhead as compared to utilizing TCP/IP as your transport.

Benefits

The key benefits of Connect Plus are the following:

- Compatibility and coexistence with IBM's DB2 Connect .
- z/OS and local LUW databases can be accessed by the same program.
- Production quality SQL request response times.
- Performance scales to meet high volume and response time critical requirements.
- Much lower z/OS CPU requirements.

These benefits allow customers to deploy large, mission-critical applications on LUW systems that meet response time and throughput requirements in a cost effective manner.

Usage

Some of the potential usages of Connect Plus are the following:

- Host new or modernized applications on LUW platforms while maintaining centralized data stores on z/OS.
- In conjunction with the Micro Focus Server Enterprise Edition, migrate existing z/OS CICS transactions or batch jobs to LUW for lower costs and improved performance.

Performance

Latency and Throughput

The performance of Alebra's Connect Plus relative to IBM's DB2 Connect will vary greatly depending on the environment and the rate at which applications issue SQL requests. At very low demand rates with ample transport bandwidth, the two solutions provide similar latency for SQL requests. However, as demands increase, the low latency benefits of Connect Plus become most evident. Typical results for batch processing or high volume interactive workloads show that Connect Plus will outperform DB2 Connect by approximately 40% or more.

z/OS CPU Savings

DB2 Connect requires z/OS CPU resources to perform the SQL operations as well as substantial overhead to receive requests and transmit results over a TCP/IP network. Often, this z/OS overhead makes using DB2 Connect impractical for high volume workloads.

As compared to DB2 Connect, internal testing has shown that Connect Plus will lower z/OS CPU usage approximately 12% for read-only sequential request and approximately 71% for all other SQL requests.

Summary

The rapid and efficient access to z/OS DB2 databases from Linux, UNIX and Windows platforms that Connect Plus provides gives customers expanded flexibility in using LUW platforms to host large mission-critical applications. Accomplish more, in less time and at a lower cost – a winning combination.

Additional Information

For additional information, please visit our website at www.Alebra.com or call 1+651.366.6140.

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