

IBM Db2 Analytics Accelerator and Analytics Accelerator Loader for z/OS

Achieve unprecedented analytic processing performance with real-time query results from data in place



Highlights

Process real-time analytics from current transactional data

Cost effectively maintain low-latency data coherency

Reduce costs and meet service-level agreements (SLAs)

Expand the scope of data available for ready analysis

The separation between resource-intensive transactional and resource-intensive analytic processing can result in significant latency between when data is generated and when it can be used for analytics. This results in inconsistent and—at times—inaccurate insights, which can lead to suboptimal business decisions.

The IBM Db2 Analytics Accelerator for z/OS® (Accelerator) keeps data in place and brings analytics to that data to deliver insight when and where you need it. This helps reduce data latency, minimize cost and complexity, and improve data governance and security. The Accelerator extends IBM Db2® for z/OS® to speed up the processing of complex, resource-intensive IBM Db2 queries that are vital to mission-critical reporting and analytic workloads. Delivering high-speed performance for mixed transactional and analytic workloads allows your organization to reimagine what can be done with its high-value data originating on IBM Z®.





Process real-time analytics from current transactional data

The Accelerator can process real-time analytics from current transactional data without impacting transactional workloads. This ability to assure industry-leading performance for mixed workloads is a key differentiator of the IBM Db2 for z/OS approach. Moreover, because transactional and resource-intensive queries are each processed within separate compute resource pools, resource-intensive processing for processes like analytics doesn't degrade transactional workload performance.

Cost effectively maintain low-latency data coherency

Integrated synchronization is a key capability of the Accelerator that enables organizations to deliver integrated, low-latency data coherency between IBM Db2 for z/OS and the Accelerator. Analytic queries can run against the latest committed data when needed. This is accomplished via a data synchronization technique that can deliver pure hybrid transactional and analytic processing to support data coherency and transactionally consistent analytic query results. Integrated synchronization can also be used to feed more than one Accelerator simultaneously, further supporting high availability (HA) and disaster recovery (DR) scenarios.

Reduce costs and meet SLAs

The Accelerator enables an innovative approach to ensure that organizations can reduce costs and meet SLAs in batch and online. Organizations use the Accelerator for analytics, batch acceleration, extract-transform-load (ETL) processing, operational data store (ODS) repositories and even within the context of resource-intensive, online transactional applications. And, because the Accelerator runs in a separate resource compute pool from transactional infrastructure, analytic workloads don't consume general processor capacity. This reduced consumption also can reduce cost and free up resources for critical transactional applications.

Expand scope of data available for ready analysis

When data originates outside of IBM Db2 for z/OS—for example in IMS, VSAM or non-IBM Z data sources—a complementary and separately priced product, the IBM Db2 Analytics Accelerator Loader for z/OS® (Analytics Loader), can load data into the Accelerator to support queries that combine data originating within and outside of IBM Db2 for z/OS. The Analytics Loader can also be used to support:

- A simultaneous load of IBM Db2 for z/OS data into multiple Accelerators for HA and DR scenarios
- Dual loading of external data into IBM Db2 for z/OS and the Accelerator

Conclusion

The Accelerator can be deployed on IBM Z Integrated Facility for Linux® or on an IBM LinuxONE stand-alone system to help you drive new insight from IBM z/OS transactional data. This means you can integrate your mission-critical transactional applications with business-critical, time-sensitive, resource-intensive processes like analytics—without compromise. And this efficient, cost-effective, security-rich environment benefits from the superior IBM Z quality of service. By bringing analytics processing to where the data originates on IBM Z, you can keep the data in place to drive insight from current data, reducing data latency, minimizing cost and complexity, and improving data governance and security.

Why IBM?

IBM® is trusted to manage companies' most mission-critical data and applications. Our experience innovating in enterprise data solutions includes market-leading database solutions and enterprise-ready AI. We enable our clients to run solutions in any cloud or on-premises environment and believe that our clients' data solely belongs to them.

For more information

To learn more about the IBM Db2 Analytics Accelerator for z/OS or IBM Db2 Analytics Accelerator Loader, contact your IBM representative or IBM Business Partner or visit ibm.com/products/db2-analytics-accelerator.

© Copyright IBM Corporation 2023

IBM Corporation
New Orchard Road
Armonk, NY 10504

Produced in the
United States of America
December 2023

IBM, the IBM logo, Db2, Db2 Analytics Accelerator for z/OS, Db2 Analytics Accelerator Loader for z/OS, IBM Z, and z/OS are trademarks or registered trademarks of International Business Machines Corporation, in the U.S. and/or other countries. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on ibm.com/trademark.

The registered trademark Linux® is used pursuant to a sublicense from the Linux Foundation, the exclusive licensee of Linus Torvalds, owner of the mark on a worldwide basis.

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT.

IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

