BROADCOM®
MAINFRAME SOFTWARE

Product Brief

Fast Check® for Db2 for z/OS

Key Benefits

- **Superior performance:** Provides high-speed validation of Db2 data consistency.
- **Simplified data integrity:** Simplifies data integrity checking by providing predefined check levels.
- **Application RI checking:** Checks user-defined RI as well as Db2-managed RI.

Key Features

- **Integrity checking:** Performs basic validation (for example, IBM Check utilities) and provides additional integrity checks such as Db2-managed RI checks, LOB verification, and validation of internal object structures.
- **Increased performance:** Increases integrity checking performance with unique mechanisms such as parallelism, intelligent sort and I/O processing techniques.
- **Simplified usage:** Provides several usability features to simplify data integrity checking, such as ISPF interface, predefined check levels and the ability to define object groups.
- **Close integration with other Broadcom products:** Performs automatic checks during the process of running Fast Load for Db2 for z/OS or Fast Recover for Db2 for z/OS.

Overview

Fast Check for Db2 for z/OS (Fast Check) is a comprehensive utility that helps you monitor and control the consistency of your Db2 databases. This product helps keep your databases running smoothly and helps reduce downtime.

Business Challenges

Database inconsistencies caused by referential integrity (RI) violations and inaccurate indexes can cripple response times and lead to errors and malfunctions. To help your applications run smoothly, you need a solution that can identify database inconsistencies quickly, efficiently and effectively.

Solution Overview

Fast Check is a comprehensive utility for monitoring and controlling the consistency of Db2 databases. It can perform the CHECK DATA, CHECK LOB and CHECK INDEX functions of the IBM CHECK utility and also the CHECK function of IBM DSN1COPY. Fast Check also provides the following:

- **Db2-managed application RI checking:** Validates user-defined RI and Db2-managed RI
- **Corrections to integrity violations:** Writes rows that are in error to an exception table and produces control statements and data to correct them
- **Index integrity validation:** Locates and reports inconsistencies such as index entries that reference missing or corrupted data, and incorrect RID values
- **Internal integrity checking:** Validates the internal structures of Db2 objects
- **LOB verification and error correction:** Verifies and validates the relationship between a LOB auxiliary table and its primary index. Assists you in correcting LOB errors, using standard SQL.

Critical Differentiators

Fast Check uses unique patented mechanisms to increase integrity-checking performance and also provides several features that simplify its usage.

- Increased performance:
  - **Data space usage:** Holds intermediate data in data spaces rather than work files
  - **Media manager access:** Provides high-performance I/O processing
  - **Parallel partitions:** Permits user-defined levels of parallelism for partitioned objects.
  - **Direct sort:** Passes keys directly to the sort package (no SORT call via a temporary work file)
- Usability features:
  - **Exception tables:** Lets you create predefined exception tables for error processing
  - **Tablespace sets:** Groups tablespaces in one job step
  - **Online interface:** Assists with Fast Check job generation
  - **IBM syntax compatibility:** Accepts the same syntax as the IBM CHECK utilities
  - **Choice of level of integrity checking:** Provides multiple levels of integrity checking (for example, RI, index consistency, and page validity).
  - **Error Correction:** Generates SQL scripts to correct the integrity errors that are found

Related Products/Solutions

Fast Check integrates with these Broadcom products.

- **Fast Load for Db2 for z/OS:** Calls Fast Check to check each row of table data
- **Fast Recover™ for Db2 for z/OS:** Calls Fast Check to check recovered tablespaces
- **Value Pack for Db2 for z/OS:** View and modify RI relationships
- **Chorus™ Software Manager (CSM):** Aids the installation and maintenance of Fast Check

For more information, please visit our site at:
broadcom.com/db2

About the Mainframe Division at Broadcom

The Mainframe Division at Broadcom continues to drive the next horizon of open, cross-platform, enterprise solutions. We specialize in DevOps, security, AIOps, and infrastructure software solutions that allow customers to embrace open tools and technologies, make mainframe an integral part of their cloud, and enable innovation that drives business forward. We are committed to forging deep relationships with our clients at all levels. We go beyond products and technology to partner with you in creative ways that support your success.

BROADCOM®
MAINFRAME SOFTWARE