

BMC Partitioned Database Facility for IMS™

Partition full-function IBM® IMS™ databases to expand capacity and improve performance

PRODUCT DESCRIPTION

Partitioned Database Facility for IMS helps maximize space in existing databases. A partitioned database increases capacity and improves database performance and availability. Partitioned Database Facility for IMS is transparent to applications, so you don't need to make any application changes to implement it.

BUSINESS CHALLENGE

IMS full-function databases have size limits that were imposed many years ago. As IMS data grows, databases are reaching their size limits. IBM provides a solution with High Availability Large Database (HALDB), but moving from full-function databases to HALDB requires different support processes and additional training.

BMC SOLUTION

BMC Partitioned Database Facility for IMS provides the greatest capacity management and performance benefits for IMS systems that include secondary indexes, logical relationships, and mixed use of DBRC (DBRC is supported, but not required). This product provides the optimum solution for systems that need to be migrated slowly or in a staged manner. HALDB often requires an all-or-nothing migration path for IMS, without an easy path for returning to an unpartitioned state. Partitioned Database Facility for IMS enables you to partition any or all of your eligible databases and lets you return to an unpartitioned state, if necessary.

KEY FEATURES

- **Expands IMS database and index capacity** by a factor of 100
- **Increases database availability** by reducing run times for reorganizations, image copies, recoveries, and other related tasks
- **Supports HDAM and HIDAM** using VSAM or OSAM
- **Simplifies the process of converting** from non-partitioned to partitioned database

KEY BENEFITS

- **Improves performance** by reducing or eliminating data contention and I/O bottlenecks
- **Supports logical relationships**, including relationships to unpartitioned databases
- **Sustains multiple secondary indexes** without degrading performance



Maximize space



Improve performance



Convert databases efficiently

PRODUCT DETAILS

Easy implementation: Because Partitioned Database Facility for IMS allows you to easily migrate to partitioned databases, you gain the capacity benefits of partitioning without the restrictions of HALDB. You do not need to redesign IMS databases when you use Partitioned Database Facility for IMS. Partitioned Database Facility for IMS lets you partition only those databases that have capacity or performance issues. If you use logical relationships, you can maintain those relationships with unpartitioned databases.

Improve IMS database performance: Partitioned Database Facility for IMS improves IMS performance by eliminating application bottlenecks that can occur in frequently updated segments contained in the same block. By partitioning these hot spots, records are placed in different partitions, and lock contentions are avoided.

DBRC supported, not required: Partitioned Database Facility for IMS fully supports DBRC but does not require DBRC registration. HALDB requires DBRC.

Increase IMS database capacity by 100 times: IMS full-function database capacity is limited to 4 GB for a VSAM data set and 8 GB for an OSAM data set. Partitioned Database Facility for IMS extends these limits to 500 GB for VSAM data sets and indexes, and 1 TB for OSAM data sets.

Exploit the IMS catalog: Partitioned Database Facility for IMS fully supports the IMS catalog and IMS-managed ACBs.

Group data sets for even greater benefit: Partitioned Database Facility for IMS supports the use of data set groups. By implementing effective groups, infrequently used data can be isolated, expanding capacity for higher-traffic data. This approach not only provides additional capacity, but it also improves database performance.

Convert to partitioned databases in four easy steps: Partitioned Database Facility for IMS makes it easy to convert to a partitioned database. The steps for converting an IMS full-function HDAM or HIDAM database include:

1. Designing the partitioned database, including scope of the partitions and database requirements
2. Unloading the existing database
3. Updating the DBD source with new PART statements
4. Reloading the database and building indexes

Converting to Partitioned Database Facility for IMS does not affect existing applications. You gain capacity and database performance without affecting the rest of the business.



FOR MORE INFORMATION

To learn more about BMC Partitioned Database Facility for IMS, please visit bmc.com/ims

About BMC

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BMC – Run and Reinvent

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