



BMC Partitioned Database Facility for IMS

Partition full-function databases to expand capacity and improve performance

Key benefits

- » 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 logical relationships, including relationships to unpartitioned databases
- » Supports multiple secondary indexes without degrading performance
- » Is transparent to application programs

Business Challenge

IMS™ full-function databases have size limits that were imposed more than 30 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.

The BMC Solution

BMC Partitioned Database Facility for IMS helps maximize space in existing databases. A partitioned database increases capacity and improves database performance and availability. BMC Partitioned Database Facility for IMS is transparent to applications, eliminating costly changes.

BMC Partitioned Database Facility for IMS provides the greatest capacity management and performance benefits for IMS systems that include:

- » Secondary indexes
- » Logical relationships
- » Mixed use of DBRC (DBRC is supported but not required)

This product provides the optimum capacity management 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.

BMC 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.

Easy Implementation

Because BMC 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.

BMC 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.

You do not need to redesign IMS databases when you use BMC Partitioned Database Facility for IMS.

Improve IMS Database Performance

BMC 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

BMC 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. BMC Partitioned Database Facility for IMS extends these limits to 500 GB for VSAM data sets and indexes, and 1 TB for OSAM data sets.

Group Data Sets for Even Greater Benefit

BMC 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 not only provides additional capacity, but also improves database performance.

Convert to Partitioned Databases in Four Easy Steps

BMC 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 build indexes

Converting to BMC 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, please visit www.bmc.com/ims.

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