



Lightning X™

TAKE CONTROL.

- Index capability for IMS DEDB databases
- An alternate access method without impact to the database
- Improved DEDB performance for less-accessed transactions
- Reduces the need for application changes
- Index partitioning for large databases
- Indexes automatically maintained when the database is updated
- Thoroughly validates DEDBs and secondary indexes
- Easy migration for existing DEDB indexes
- Easily implemented with familiar control statements

IMS Fast Path DEDB databases are designed for fast retrieval of data in a high-volume, high availability environment. The primary access paths for these databases are structured to ensure high performance for your most critical applications. Lightning X offers the ability to maintain that critical access by providing secondary index support for DEDBs.

The Cost to Access

When new applications require DEDB access that differs from the primary applications, they can experience significant I/O counts and long response time. An alternate access path, secondary indexes are not natively supported for DEDBs.

Lightning X lets you create secondary indexes for your Fast Path DEDBs by providing a set of easy to use NEON Enterprise Software utilities to build, verify, and maintain the indexes.

Lightning X includes:

- Lightning X Online—The component that updates the database description, defines the secondary indexes, and then manages and

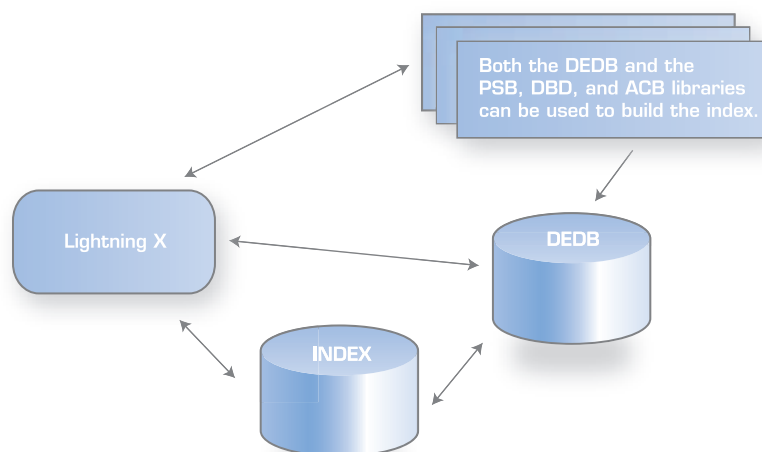
maintains the secondary indexes that you build.

- NSELIST—A convenient utility that quickly disassembles the DBDs and ACBs for DEDBs.
- Eclipse iBuild™—The high performance Eclipse Reorganization Utility that builds the secondary indexes.
- Eclipse iCheck®—The Eclipse Reorganization Utility that thoroughly validates Lightning X secondary indexes and their DEDBs.

By exploiting zIIP processors, both Eclipse iBuild and Eclipse iCheck free up central processors and help to reduce the overall cost of computing.

No Training Required

Easy to install and implement, Lightning X uses control statements similar to those for full-function IMS databases, allowing you to leverage your IMS knowledge when you use the product. Lightning X requires no changes to the database or Fast Path services, and impacts only the PSB and ACB libraries, allowing you to add or modify DEDB indexes with standard online change procedures.



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Partitioning Support

For HISAM and SHISAM databases larger than 4 GB, Lightning X supports partitioned indexes. A partition selection exit routine provides a simple way to partition by index key.

Sparse Index Support

Lightning X also supports sparse indexes providing an efficient way to process a subset of a database. Index records are created according to specified criteria in the database record. For example, you might create index records for those customer transactions that are past a due date.

Effortless Transition

Making the transition to Lightning X is simple. If you implemented secondary indexes using the BMC Software Fast Path Indexer/EP product, you do not need to rebuild the existing indexes to use the indexes with Lightning X.

Supported Formats

The index can be a DEDB, HISAM or SHISAM database. HISAM and SHISAM indexes can be partitioned. DEDB indexes require both root and direct dependent segments. For HISAM/SHISAM, the index is a root-only database.

Comprehensive DEDB Solution

NEON Enterprise Software delivers a comprehensive set of Fast Path utilities to maximize performance and database availability for DEDBs. Complementing Lightning DEDB™, Lightning Extend Online™ and Lightning Extend Instant™, Lightning X™ gives you the ability to access DEDBs through an alternate path, reducing I/O performance impact and reducing response time.

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Product Requirements

- An IBM-supported version of z/OS (64-bit mode required)
- If you want to use Eclipse iBuild and Eclipse iCheck zIIP support, you must have an IBM System z9 or z10 processor with one or more zIIP processors configured.
- If you cannot use the zIIP support and you want to run in SRB mode, you must have either:
 - z/OS version 1.8 or higher
 - z/OS version 1.6 or 1.7 with appropriate APARs installed
- An IBM-supported version of IMS

High data availability is a choice. Choose Lightning X and TAKE CONTROL.

For more information, contact NEON Enterprise Software, Inc. at 888.338.6366 or 281.491.6366, or visit our website at www.neonesoft.com.