

# Superdex® v4.0

The premier indexing tool that unlocks powerful data retrieval from your IMAGE database.

Products for HP e3000 Systems

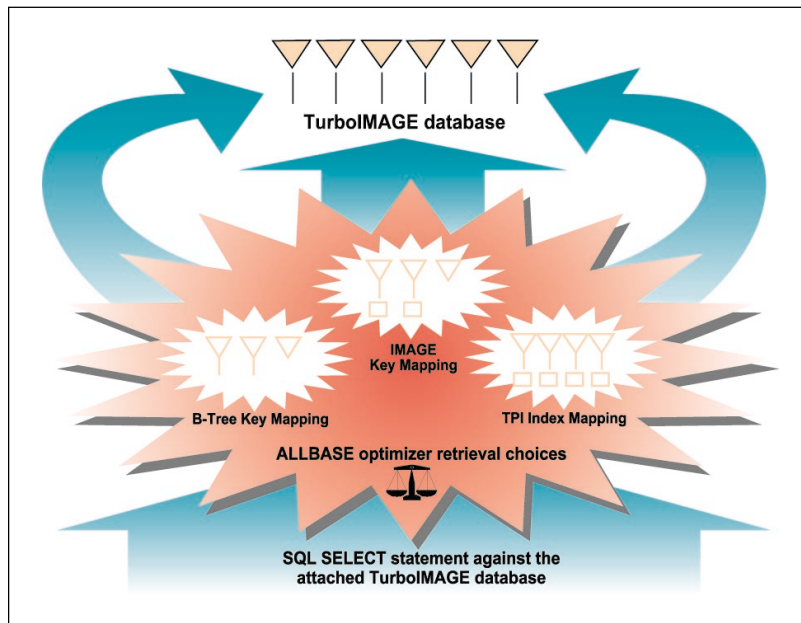
## Overview

Through superior indexing technology, Bradmark brings all the capabilities of relational database access to the HP 3000. **SUPERDEX** provides a fast, cost-effective and compatible indexing enhancement package that adds data retrieval speed and flexibility to IMAGE, TurboIMAGE, TurboIMAGE/XL and IMAGE/SQL databases. Additional benefits place SUPERDEX in a performance category of its own.

IMAGE keys are no longer required to ensure that data retrievals occur quickly. Now any field in any dataset can be a key. SUPERDEX allows the use of Boolean operators (and, or, not) to eliminate serial reads, dramatically reducing computing time.

## Key Benefits

- Serial reads are eliminated, while search options are expanded. Now, any field in the dataset can be a key.
- SQL Optimizer has access to TPI indexes, speeding SQL SELECT performance.
- Query can access IMAGE data via SUPERDEX's high speed INDEXES.
- Concatenated, byte offset, grouping, supergrouping and keywording provide the right index for your business need.
- Sorted sequential, generic and partial key, and SQL-like relational arguments provide the right retrieval your organization requires.
- MANMAN and PowerHouse dates can be converted into an internal format, allowing ASCII retrievals for dates.



With SUPERDEX, TPI indexes are registered into the DBE of the IMAGESQL attached database, which is a needed tool when trying to eliminate parallel scans against your TurboIMAGE data.

Interfaces for many common Fourth-Generation Languages are available — minimizing the time required to make use of new keys.

SUPERDEX uses the IMAGE/SQL Third-Party Indexing (TPI) Interface, which means that programs no longer need to be concerned with external SUPERDEX libraries. The SUPERDEX indexing engine is called directly by IMAGE. With SUPERDEX, TPI indexes are registered into the DBE of the IMAGE/SQL attached database. Now, the Allbase optimizer has more data retrieval options: IMAGE key, IMAGE B-tree or TPI Index. Registered TPI Indexes provide a needed tool when trying to eliminate parallel scans against your IMAGE data.

*SUPERDEX also features:*

**UTILITIES** — allows SUPERDEX databases to have their indexes easily maintained. Indexes can be added, deleted and reorganized directly. An installation job for currently configured indexes can be created in one command.

Current index configuration can be tested for validity.

**SuperSELECT** — a user-friendly Windows interface. Windows can be used to select datasets, SUPERDEX paths and index values. SuperSELECT then displays the number of records that qualify and allows additional criteria to be entered.

**QUERY** — an interface to SUPERDEX that provides many powerful SUPERDEX retrievals for character-type data, along with range retrievals. Data can also be reported in sequential order.

**DATE FORMATS** — can convert into an internal format that allows for ASCII retrievals for dates. The internal format can be specified to include the century, year, month, or day. SUPERDEX stores the date in a format to allow character-type retrieval on these special dates.

**KEYWORDING** — keyword by different non-alphanumeric characters by default, such as hyphen, colon, slash, dash, and others. SUPERDEX has extended the available non-separators from 4 to 15, offering more customizing options for database keywords.

**Automated Relational Action**  
Relational joins and comparisons enforce relational access with every call. Programs no longer need to know if a call should be relational.

**Large Textual Data Search**  
Keyword search of large amounts (billions of bytes) of textual strings in seconds.

**SQL SELECT Syntax on DBFIND**  
SQL-like argument syntax for DBFIND (i.e.: 'Paul AND Smith').

**4-GL Support** — QUIZ, QUICK, SPEEDWARE, BRW, etc. can take advantage of INDEXing.

**SITRACE** — when enabled, provides information about the IMAGE intrinsics your program s call to \$stdlist or to a file. User selectable from summary level to complete detail, SITRACE displays IMAGE intrinsic name, base-id, dataset name, mode, argument and buffer. This information is invaluable for quickly determining status of issues involving SUPERDEX or your application, and may also be used effectively where SUPERDEX is not involved.

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## About Bradmark

For 20 years, Bradmark has provided a business advantage by ensuring that the databases, which are vital to the organization's competitive advantage, meet or exceed health and availability requirements.

**Bradmark is committed to providing data management solutions in support of our customers' business challenges.**

In addition to a direct sales force, Bradmark has an established worldwide network of channel partners.

