



### Highlights

- Written entirely in Java to run anywhere the Java Runtime Environment (JRE) is supported, including mobile devices Android based.
- Includes built-in routines to perform basic file management maintenance tasks
- Supports multi-language deployments
- Includes the ISMIGRATE utility for simplified migration of data files from other data sources
- Includes the isCOBOL Graphical Indexed File Editor (GIFE) utility to enables developers to read, modify, add, or delete individual records stored in an indexed file outside of an application.
- Offered with the isCOBOL® Runtime Environment at no extra cost

## isCOBOL JISAM

### 100% Portable, Compact ISAM File System

Customers expect data access anytime on anyplace. With isCOBOL JISAM, your business can deliver fast and efficient access to COBOL applications with ISAM data files anywhere Java technology runs, without the overhead of adding a relational database management system or investing in complex program change.

#### Anytime, anywhere data access

isCOBOL JISAM is a 100% Java-based indexed sequential access (ISAM) file system based on X/Open standards, opening up a wide range of different platforms, from mainframes to hand-held devices, for new and existing COBOL programs accessing ISAM data files.

Using a B+ tree-index architecture, isCOBOL JISAM offers fast, self-balancing and flexible data retrieval. With isCOBOL JISAM you can:

- Index a file with any number of indexes, each of which may include up to 16 non-contiguous segments.
- Scan all or part of an index in ascending or descending order.
- Use both unique keys and duplicate keys.
- Simplify multi-language distributions and localization leveraging isCOBOL technology's support for Unicode.

The JUTIL utility is included with isCOBOL JISAM for basic file management. With JUTIL, developers can load and unload binary or line sequential files, compact files, check file consistency and rebuild isCOBOL JISAM files.

#### Enable COBOL data access from Java

Veryant makes it easy for organizations to open vital COBOL data to new applications while continuing to leverage existing skill sets. Because isCOBOL JISAM is a Java-based file system, isCOBOL JISAM files can be accessed directly from Java applications without the need for a Java Native Interface (JNI) for C or an external connector.

When used with isCOBOL Evolve, the COBFILEIO utility can also be leveraged to read COBOL source code and generate object classes for accessing COBOL files and records directly from Java programs. This process eliminates the time-consuming requirement of writing individual interface programs or using proprietary middleware. With this approach it is not required for COBOL programmers to learn object oriented programming or for Java programmers to become familiar with COBOL data types or their underlying storage format.

**100% thread safe computing**

With full support of multiple threads, isCOBOL JISAM can be leveraged in scalable, multi-threaded Java server application environments. isCOBOL JISAM provides data integrity across multiple users with full support of locking options as well.

**isCOBOL Application Server, file service support**

Taking advantage of IIOP TCP/IP client/server communication layer, isCOBOL JISAM can be used in a client/server architecture regardless if the client is Windows, UNIX, Mac, Linux or Mobile. Also isCOBOL JISAM can take advantage of isCOBOL Server Internal lock management to easily see who is looking what.

**Enable SQL data access from JDBC/UDBC**

isCOBOL JISAM files can be retrieve and update from many Windows-based applications, including Microsoft Word, Excel, Access, MS Query, Crystal Reports, and any ODBC compliant programming language through isCOBOL Universal Database Connector (UDBC) Server.

**Cost-effective, cross-platform alternative**

isCOBOL JISAM is included with the isCOBOL<sup>®</sup> Runtime Environment, providing a cost-effective alternative to separately licensed products. isCOBOL JISAM runs on any platform that supports the Java Runtime Environment and transitioning to isCOBOL JISAM is no more difficult than moving between any other two ISAM file systems. To ease transitions to isCOBOL JISAM, Veryant provides the ISMIGRATE utility. This utility reads records from an original ISAM file and writes out to the target isCOBOL JISAM file, enabling your business to quickly deploy data in a portable Java framework.

isCOBOL JISAM provides a flexible solution to help applications keep pace with technology today and tomorrow.

**Technical characteristics**

Key technical characteristics of isCOBOL JISAM include:

- Maximum file size: 9+ exabytes (over 9 million terabytes)
- Maximum number of keys: no limit
- Maximum number of records: no limit
- Maximum key length: 256 bytes
- Maximum number of segments per key: 16
- Maximum record length: 2 GB

isCOBOL JISAM uses system locks, so the maximum number of concurrently locked records is system dependent. The maximum number of ISAM files that can be concurrently open is also only limited by the platform on which isCOBOL JISAM operates.

**About Veryant**

With an extensive COBOL and Java heritage, Veryant delivers software that optimizes IT resources, improves business performance and revitalizes programming resources. Whether your business is extending applications with new user interfaces, evolving existing applications through SOA, or improving quality and distribution processes, Veryant's expertise and innovative products will increase the productivity of your applications.

For additional information, please visit [www.veryant.com](http://www.veryant.com).

