

jBASE Release 4.1.5



Major changes in the upcoming jBASE Release 4.1.5 have greatly improved jBASE in many areas. We have added lots of functionality to make your job even easier whether you are a developer, an administrator or a user.

Performance improvements top the list – we have redesigned many of the features from the ground up to speed up jBASE and im-

prove an already best of breed performer. The thread signal handler has been reworked to ensure full thread safety, making jBASE the *only* thread safe MultiValue database! This functionality is ideal for the customer developing a Java application who intends to make use of the multi-threaded nature of jBASE.

Developers win with the ability to integrate XML into their applications, to use .NET and Java more extensively and to use the multi-threading features of those languages. A number of XML statements have been added to BASIC to support construction of XML documents. In addition, it is now possible to validate XML documents against schemas or DTDs using a BASIC statement.

A new file type has been added, jPlus, which offer the ability to use large files (greater than 2GB) without administrative headaches. This is ideal for the customer with extra large files on a system, or for those who wish to use files that are more resilient to data corruption.

The addition of an SQL engine means that a BASIC programmer can include SQL statements in place of or in addition to jQL in their BASIC code or at the command line to access jBASE files. It allows SQL functionality such as joining tables, ORDER BYs, GROUP BYs, HAVINGs, functions, etc. For example, you can use JQLCOMPILE, JQLEXECUTE & JQLFETCH with SQL as well as jQL. There are two new utilities; SQLSELECT, which runs an SQL statement and returns formatted results, and SQLSELECTL, which runs an SQL statement and returns a select list. The jBASE implementation of SQL is read only and works natively either from the command line or from within BASIC code.

Reap the security benefits of the new encrypted TJ, encrypted backup/restore and the powerful Data at Rest Encryption Module (DREM) only available in Release 4. The DREM cross-platform jEDI supports 128-bit encryption and decryption of data at the file system level without any changes to the application code!

For more information

Talk to your jBASE representative about how jBASE Release 4 can benefit you! Upgrading is painless and you will not need to recompile your 4.1.4 code to upgrade. Much of the work in jBASE 4.1.5 is preparatory work for making the leap to a completely 64-bit only release in jBASE 5! Watch this space! For information including information on obtaining a free evaluation version of jBASE, visit www.jBASE.com.

KEY FEATURES

SQL Engine. Allows the jBASE database to be used with open external tools and APIs. This has been implemented side by side with jQL so in most cases anywhere you could use jQL - you can now use SQL!

JDBC Driver. jBASE 4.1.5 comes with a native JDBC driver which connects into jBASE using the Java OBJEX server. Links with the SQL Engine to allow JDBC access from external tools.

Thread Safety. The signal handler has been reworked to ensure full thread safety, making jBASE the only thread-safe MultiValue database!

Encrypted TJ. Allows a journal file to be created that cannot be read outside jBASE and which requires the relevant key to decrypt. Uses the 4.x ENCRYPT/DECRYPT functions.

Encrypted Backup/Restore. As with TJ, prevents the file from being read outside jBASE and needs a key in order to restore.

Data at Rest Encryption. Users of jBASE Release 4 have access to DREM, a powerful new cross-platform jEDI that supports 128-bit encryption and decryption of data at the file system level with no changes to application code.

Distributed locking. It is now possible for two application servers to share locks by using the new jDLS (jBASE Distributed Locking Service). This can be implemented on multiple servers for failover support.

Additional XML statements & functions. Additional BASIC functions and statements are available to manipulate XML documents from within jBASE BASIC programs and to validate XML documents against XML schema definitions.

New services on Windows. Licensing (jLicServer and jSlimServer) is now handled by services on Windows and can be managed in the Windows Services Panel.

Extended internationalization. Provides UTF-8 multi-byte character sets, locales, dates, currency, and sort and collate sequences to supplementary products such as jDP.

New file type. jPlus files for Windows: 64-bit files, with configurable flushing levels, that provide hash file support for files greater than 2 GB have been added for Windows as well as Unix.

Upgraded components. ICU, OpenSSL, Xalan, Xerces, Java and compilers have also been upgraded for this build.

New platform / compiler support. jBASE 4.1.5 is now supported on Sun's Opteron platform as well as HPUX Itanium.

For more information, visit www.jBASE.com!