



jBASE Product Release Notice

Product:	jBASE 5.2
Version:	5.2.26
Type:	Patch Release

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Features and Components

jBASE 5 has been designed to allow non-stop running, increased resilience and lower maintenance. In addition, jBASE 5 is an exclusively 64-bit release

Features

Online Backup	Allows backups / restores to be carried out without logging users off
Resilient files	New type of file highly resilient to corruption
Resizing files	Resilient files grow / shrink with the data – no need to resize
Warmstart recovery	Correctly configured jBASE can autorecover from system crashes
jRFS	Allows for multiple application servers with a jBASE database
jDLS	Allows for distributed locking in a multi server environment
64-bit support	Engineered for 64-bit platforms
RHAS 5 Support	Provides Red Hat AS5 platform capability for applications.
Win64 Support	Provides 64-bit Windows platform capability for applications.
jRFS 3/4 Client support	Provides client support for existing jBASE 3.4/4.0/4.1 Releases
SQL engine	Provides read / write SQL capability

Components

.Net ObjEX	Provides VB/.Net interoperability.
jRemote .Net	Provides Native jBASE API for accessing jBC functions remotely

3rd Party Components

The jBASE 5.2 installation process includes installation of the following 3rd party components.

Java Runtime Engine

Built using the following Java versions :

HP-UX B.11.23 Itanium Java(TM) 2 Runtime Environment, Standard Edition (build 1.5.0.04-
_27_jul_2006_10_52)

AIX 5.3 Java(TM) 2 Runtime Environment, Standard Edition (build 1.5.0)

Solaris 10 SPARC Java(TM) 2 Runtime Environment, Standard Edition (build 1.5.0_12-b04)

Linux RH-AS5 Java(TM) 2 Runtime Environment, Standard Edition (build 1.5.0_22-b03)

Windows 64-bit Java(TM) 2 Runtime Environment, Standard Edition (build 1.5.0_12-b04)

Internationalization library

Required for Locale and Multi Byte character set support

- ICU 4.0.1

XML library

Required for XML function support.

- XERCES 2.7.0
- XALAN 1.10.0

ODBC support (32 bit)

This release contains an updated version of the ODBC installer.

NOTE: The files in the Install package all rely on MSVCRT80 version 6195 (or later).

This can be obtained here. You need to run/load this before Installing the ODBC installer.

<http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=26347>

Supported Platforms

This specific Patch Release provides support for the following platforms:

AIX 5.3 (64-bit) *
HPUX Itanium 11.31 (64-bit)
Red Hat Enterprise Linux 5 (64-bit) *
Solaris 10 SPARC (64-bit) *
Windows (64-bit)

*This build is binary compatible with forward releases of the platform

(e.g. AIX 5.3. -> AIX 6.1 -> AIX 7.1)

Running on RedHat 6 required the ssl compatibility library to be installed; this can be done with the following command

```
yum install openssl1098e
```

Caveats

- jDP / Attunity Connect is not available for the 64-bit jBASE 5.2 releases

Compilation

jBASE 5.2 is brought to you by the following compilers;

Platform	Compiler version
AIX 5.3	XL C/C++ Version 8.0.0.18
Windows 64-bit	Visual Studio 2005 SP1
RH Linux AS5	gcc (GCC) 4.1.2 20080704 (Red Hat 4.1.2-44)
HP Itanium3	cc: HP C/aC++ B3910B A.06.22 [Nov 14 2008]
Solaris 10 SPARC	Sun Studio 11

Patch Details

All patches from previous jBASE releases have been included where appropriate in jBASE 5.2. All Patch details for the jBASE 5.2 release are provided in a separate Patch Summary document.

jBASE 5.2.1 patch release includes Patches PN5_20000 through PN5_20051

jBASE 5.2.2 patch release includes Patches PN5_20052 through PN5_20067

jBASE 5.2.3 patch release includes Patches PN5_20068 through PN5_20089

jBASE 5.2.4 patch release includes Patches PN5_20090 through PN5_20099

jBASE 5.2.5 patch release includes Patches PN5_20100 through PN5_20110

jBASE 5.2.6 patch release includes Patches PN5_20111 through PN5_20117

jBASE 5.2.7 patch release includes patches PN5_20118 through PN5_20123

jBASE 5.2.8 patch release includes patches PN5_20124 through PN5_20143

jBASE 5.2.9 patch release includes patches PN5_20144 through PN5_20153

jBASE 5.2.10 patch release includes patches PN5_20154 through PN5_20163

jBASE 5.2.11 patch release includes patches PN5_20164 through PN5_20184

jBASE 5.2.12 patch release includes patches PN5_20185 through PN5_20195

jBASE 5.2.13 patch release includes patches PN5_20196 through PN5_20202

jBASE 5.2.14 patch release includes patches PN5_20203 through PN5_20208

jBASE 5.2.15 patch release includes patches PN5_20209 through PN5_20221

jBASE 5.2.16 patch release includes patches PN5_20222 through PN5_20234

jBASE 5.2.17 patch release includes patches PN5_20235 through PN5_20247

jBASE 5.2.18 patch release includes patches PN5_20248 through PN5_20257

jBASE 5.2.19 patch release includes patches PN5_20258 through PN5_20271

jBASE 5.2.20 patch release includes patches PN5_20272 through PN5_20284

jBASE 5.2.21 patch release includes patches PN5_20285 through PN5_20294

jBASE 5.2.22 patch release includes patches PN5_20295 through PN5_20307

jBASE 5.2.23 patch release includes patches PN5_20308 through PN5_20326

jBASE 5.2.24 patch release includes patches PN5_20327 through PN5_20333

jBASE 5.2.25 patch release includes patches PN5_20334 through PN5_20345

jBASE 5.2.26 patch release includes patches PN5_20346 through PN5_20356

Installation instructions for jBASE 5.2

On UNIX systems

Set the 'umask' to enable the correct UNIX permissions for the files about to be installed.

```
umask 0
```

Create the directory into which you are installing jBASE 5.2, eg :

```
mkdir /home/jbc52
```

This directory path will subsequently be used as the '\$JBCRELEASEDIR' environment variable setting.

[ensure the volume in which you are installing jBASE 5.2 has sufficient free disk space, approximately 500MB is required, plus additional space for any temporary files]

```
df -k          [ will show the current disk usage within each UNIX volume ]
```

'cd' to the directory just created, eg :

```
cd /home/jbc52
```

Uncompress the appropriate 'tar.gz' file, eg for 64-bit Aix 5.3 :

```
gzip -d 64bit_jbase5226_aix.tar.gz
```

Install the jBASE release using :

```
tar -xvf 64bit_jbase5226_aix.tar
```


On Windows systems

Run the installer, e.g. '64bit_jbase5226_win.exe' and follow the on screen instructions/prompts shown.

Note: The Installer has been modified slightly so that if it finds a "config" directory in the install directory it will assume that its doing an "Upgrade" and will stop the telnet and jDLS daemons and then rename the existing config directory to "config_pre{jBASE Install Version}". e.g. "config_pre5.2.8"

It will then pop up a message box displaying this information.

Incidents Addressed in jBASE 5.2.26 Patch Release

RTC866164/TR202260	fixed by patch 5_20346
RTC871813/TR202261	fixed by patch 5_20347
RTC872976/TR202262	fixed by patch 5_20348
RTC864385	fixed by patch 5_20349
RTC777184/TR202222	fixed by patch 5_20350
RTC882011	fixed by patch 5_20351
RTC777477/TR202174	fixed by patch 5_20352
RTC794731/TR202235	fixed by patch 5_20353
RTC900959/TR202267	fixed by patch 5_20354
TR202253	fixed by patch 5_20355
TR202263	fixed by patch 5_20356

Patches incorporated in jBASE 5.2.26 Patch Release

5_20346

Apply implicit OR on itemid Selection criteria when additional clauses are specified
To test :

file item a1
001 A1

file item b1
001 B1

```
jsh --> SELECT file "a]" "b]" BY *A0
```

should display :

2 records selected

Prior to this patch :

1 record selected
[item 'a1']

was displayed

5_20347

Do not create jR files with 'SECURE=YES' if jR Secure mode component is not present in license
Do not allow jchmod +S on jR file if jR Secure mode component is not present in license

To test:
[on system WITHOUT jR Secure mode component in license]

```
CREATE-FILE DATA jrfile TYPE=jr
```

```
jstat -v jrfile  
should display :
```

File Path = .jrfile

...

Backup = YES, Log = YES, Rollback = YES, Secure updates = NO

Prior to this patch :

File Path = .jrfile

...

Backup = YES, Log = YES, Rollback = YES, Secure updates = YES

was displayed and 'jchmod jrfile' reported :

HASHR: Error: @jediHASHR.c, 3082 : [-1]

No licence installed for resilience

The first 'jchmod', other than 'jchmod -S', on a jR file created prior to this patch, will report 'No licence installed for resilience - Setting SECURE=NO' if jR Secure mode component is not present in they installed license

5_20348

Apply (any) output conversion to BREAK-ON column output

To test :

file containing :

item1
001 abc_123

item2
001 abc_234

item3
001 abc_345

DICTIONARY file attr7
001 A
002 1
003 Field2
004
005
006
007 G1_1
008
009 R
010 7

SORT file BY attr7 BREAK-ON attr7 DET-SUPP ID-SUPP

should display :

Field2

123

234

345

Prior to this patch :

Field2

abc_123

abc_234

abc_345

was displayed

5_20349

Group by is not working correctly in SQLSELECT

Only display group columns for last break in the list.

Previously the following statement would display incorrect results.

```
SQLSELECT CURRENCY_BOUGHT, CURRENCY_SOLD, COUNT(TRANSACTION_REF_NO) AS  
totals FROM FBNK_FOREX
```

```
WHERE DEAL_DATE='20071205' GROUP BY CURRENCY_BOUGHT, CURRENCY_SOLD
```

CUR CUR totals

--- --- -----

EUR USD 1

GBP EUR 1

GBP USD 10 <<<

GBP USD 9

JPY USD 3

USD CHF 1

USD EUR 2

USD GBP 2

USD JPY 1

USD JPY 6 <<<

XAU USD 1

Selected 11 rows.

[GBP USD 10] and [USD JPY 6] are incorrect as they are to totals for ALL [GBP] and [USD],
the second value is just junk left from the previous result.

5_20350

Fix for the Windows Telnet server, which could crash on Windows 2012 R2 if the "remote.cmd" file was > 1024 bytes.

Also updated the Version number and Copyright message.

The executables are built with VS2010 in Release mode.

Tested by Client, using test build

5_20351

SQL_SAR-2009-03-20-0002.TST,SQL_QA_SQLCATMAN.TST QA tests results in SEGV on R09_SP27 for Unix platforms only

Integrate changes from R09. Fix SQL NULL pointer issue when using DESCRIBE.

5_20352

jQL [5.2/Compiled jQL] How to use SQL syntax with compiled jQL

Add SQLINTERFACE.h to the release.

Tidy up SQL samples so that we can avoid any confusion.

- * Tidy up basic example so it uses TCI API's
- * Add new basic example (jBC API's)
- * Remove redundant java example, we use jremote for this now so any examples should be with jremote.
- * Update readme.txt

5_20353

Fix to allow EXECUTE'd processes to inherit debugger session.

5_20354

Controlling attribute only displays first multi-value when dependent attribute is null.

Check data in MV set before doing any processing, expand or contract any dependant values that don't match the number of MV's in the current controller.

5_20355

Allow file stat of file(s) opened for WRITE to be obtained eg 'databases\default'

Otherwise 'jbackup' saved such files as type 'Other'

To test :

set JBCDATADIR=jdata

Item 'backupfiles' containing :

001 jdata\databases\default

```
jbackup -v -f backup backupfiles
```

should display :

```
      Saved  Directories   : 0
           Regular files  : 1
           Linked files   : 0
           Other files    : 0
```

Prior to this patch :

```
      Saved  Directories   : 0
           Regular files  : 0
           Linked files   : 0
           Other files    : 1
```

was displayed

5_20356

Prevent '[410] File operation is illegal, file is a Q pointer' error during 'jrestore' -O'

To test :

[on Windows]

```
set JEDIFILENAME_MD=files\MD]D
CREATE-FILE DICT files\MD 23
UpdateMD
CREATE-FILE DATA files/xxfile 1
```

```
ED . backupfiles
```

```
001 files\MD]D
002 files\xxfile
```

```
jbackup -f backup backupfiles
```

Prior to this patch:

```
jrestore -B -N -O -v -f backup
```

would display :

```
[ 410 ] File operation is illegal, file files/MD is a Q pointer
[ 419 ] File operation illegal on MD or SYSTEM type file
ERROR! Unable to create hash file files/MD]D, error 17
[ 201 ] files/xxfile is not a file name
Hash file files/xxfile
```