



## **jBASE Product Release Notice**

<b>Product:</b>	<b>jBASE 5.2</b>
<b>Version:</b>	<b>5.2.23</b>
<b>Type:</b>	<b>Patch Release</b>

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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

## **3<sup>rd</sup> Party Components**

The jBASE 5.2 installation process includes installation of the following 3<sup>rd</sup> 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

## 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_jbase5223_aix.tar.gz
```

Install the jBASE release using :

```
tar -xvf 64bit_jbase5223_aix.tar
```



## On Windows systems

Run the installer, e.g. '64bit\_jbase5223\_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 5.2.23 Patch Release

RTC128995	fixed by patch 5_20308
TR202144/RTC588559	fixed by patch 5_20309
RTC726503	fixed by patch 5_20310
TR202188/RTC588559	fixed by patch 5_20311
TR202207/RTC744444	fixed by patch 5_20312
TR202200/RTC745727	fixed by patch 5_20313
TR202215/RTC752513	fixed by patch 5_20314
TR202189/TR202198	fixed by patch 5_20315
TR202203/RTC759815	fixed by patch 5_20316
TR202197/RTC752588	fixed by patch 5_20317
TR202226	fixed by patch 5_20318
TR202224	fixed by patch 5_20319
TR202228	fixed by patch 5_20320
TR202223/RTC748678	fixed by patch 5_20321
TR202210/RTC770801	fixed by patch 5_20322
TR202201	fixed by patch 5_20323
RTC776950	fixed by patch 5_20324
RTC778752	fixed by patch 5_20325
TR202223	fixed by patch 5_20326

## Patches incorporated in jBASE 5.2.23 Patch Release

### 5\_20308

RTC128995/RTC128991-MS Access cannot modify records of jBASE ODBC table.

Remove checks for UPDATE/DELETE in grammar and add new test.

Renamed the 5.2 version to: JSQL\_DQUOTED\_COLUMN\_UPDATES.TST,  
This is because it deals mainly with updates and quotes, (INSERT/UPDATE etcà)

Copied the PATCH version as: JSQL\_DQUOTED\_COLUMN.TST,  
This test just does some selects using different quotes.

### 5\_20309

[TR202144] [jBASE 5.2] jODBC Add CASE WHEN

Added new syntax and test.

CASE is used to provide if-then-else type of logic to SQL. Its syntax is:

```
SELECT CASE ("column_name")
    WHEN "condition1" THEN "result1"
    WHEN "condition2" THEN "result2"
    ...
[ELSE "resultN"]
END
FROM "table_name"
```

"condition" can be a static value or an expression. The ELSE clause is optional.

### 5\_20310

Corrected the hard coded usage of VSINSTALLDIR directory path & JBCRELEASEDIR directory path in scripts, to pick the VSINSTALLDIR & JBCRELEASEDIR directory paths at compilation time while building the ODBC drivers.

### 5\_20311

ODBC dates are returning the jBASE internal date, not the correct date expected

force the time/date format to match the extended dictionary type If NULL or disabled.

## 5\_20312

| [jODBC] Dates not displayed in correct format

Try and use the system default for displaying dates.

New environment variable to enable date format JSQL\_DEFAULT\_DATE\_FORMAT\_OUTPUT

Windows, SYSTEM short date format

Unix, LANG, LC\_ALL short format

## 5\_20313

[jRemote] Code page problem with jDynArray replace

From the below C# code snippet invoking jremote api

```
string result;
    string before_replace, after_replace;

    //Set the Locale and codepage values
    System.Globalization.CultureInfo frFR = new CultureInfo("fr-FR");
    com.jbase.jremote.Overrides.DefaultCodePage = "cp437";

    JDynArray rayTest = new JDynArray("éà");

    before_replace = result = rayTest.get(1);

    //use the jDynArray Replace function
    rayTest.replace("éà", 1);

    //extract the replaced text and test to ensure that it worked
    after_replace = rayTest.get(1);
```

<BEFORE FIX>

after\_replace and before\_replace variables will be different.

ie: replace will corrupt the jDyn array which is different CODEPAGE other than UTF-8

<AFTER FIX>

both the variables are exactly same.

## 5\_20314

Fix to reset the PRECISION value while looping, after setting the default PRECISION value inside the loop.

## 5\_20315

ODBC amount are not returning expected results

Change version on installer.

## 5\_20316

[JODBC] Group By when used with multiple JOINS returns incorrect results

Fix issue with break processor on joined queries, GROUP BY would only return a single row of results if the break column came from a joined table.

Previously the following would not display all of the expected results.

```
SELECT COLLECTOR_DESK.Desk_ID, SUM(TRANS.Commission_Amount)
"Total_Commission_Amount" FROM COLLECTOR_DESK, TRANS WHERE COLLECTOR_DESK.Desk_ID =
TRANS.Desk_ID GROUP BY COLLECTOR_DESK.Desk_ID;
```

Instead of multiple columns grouped by COLLECTOR\_DESK.Desk\_ID you would only see a single total displayed.

## 5\_20317

Enhancement to provide the ability to install a new license key without having to reboot  
Added a shell script to do the same.

To Run the script you must be a root user. Here is the sample run  
\$rm\_jbase\_ipc

```
Warning: This program will attempt to delete shared memory used by jBASE5.2
Do you wish to Continue?(Y/N):
```

```
Y
```

```
Checking for active sessions....
```

```
No active sessions initiate jDLS kill
```

```
jdls: Monitor lock service is not currently active, skip kill
```

```
jdls: Distributed lock service is not currently active, skip kill
```

```
Initiate jdls IPC kill
```

```
jdls: WARNING. This option will remove all IPC resources for jBASE
such as shared memory and semaphores. Removing it while jBASE processes
are active will have unpredictable results
```

```
Are you sure you want to continue ? (Y)
```

```
Double kill the ipcs using ipcrm command
```

```
ipcrm: invalid key (0x4a520064)
```

```
ipcrm: invalid key (0x4a520064)
```

```
ipcrm: invalid key (0x4a520065)
```

## 5\_20318

[JODBC] SQL query using a join returns Dates as Varchar.

Fix issue with column definitions using the default column type if it not located.

Previously if you did something like:

```
SELECT a.ID, b.DATE FROM a,b WHERE a.x=b.x
```

b.Date would be formatted 14L, not the 10R as expected for a DATE type.

This was caused by only looking in the left side of the join for the column definition. New behaviour should be able to resolve what the parent table for any column is, however we still will use a default column if no definition exists. This will happen for functions and expressions.

## 5\_20319

Prevent Segmentation Violation running Proc from Unix command prompt

To test :

file 'proc'

```
HSP-ASSIGN =STANDARD
```

```
P
```

```
HLIST .
```

```
P
```

```
jqqn ./proc
```

should 'LIST' the contents of the current directory

Prior to this patch a 'Segmentation Violation' could occur

## 5\_20320

Prevent 'UTF8\_CONVERSION\_FAILED' error SELECTing Indexed file

To test :

file item1

```
[ Hex display ]
```

```
001 C3A9
```

```
CREATE-INDEX file index1 BY-AL 1
```

```
set / export JBASE_I18N=1
```

```
jsh -> SELECT file WITH *A1 = "a]"
```

should display :

```
No Records selected
```

Prior to this patch :

```
** Error [ UTF8_CONVERSION_FAILED ] A UTF-8 codepage conversion error has occurred  
Source select.b, Line 1
```

was obtained

## 5\_20321

rtc36079: Where two item ids hash to the same value and the record contents fill a frame it can cause a recursive split. To avoid this use two hashing algorithms used on odd and even split levels.

This patch addresses the incident "[jODBC] Poor performance when using a CATALOG File" as the HASHR file used by the CATALOG could have this issue

Note: This patch updates the HASHR files to "Revision 2", existing Revision 1 files are still supported, but could be subjected to the problem, and so they would need to be recreated.

## 5\_20322

Enhancement to the jlicensinginfo utility to give a summary of the MultiSession and WebSession licenses. The format was specified by jBASE International and is basically,

for Multisession will display is the number of Sessions using a license, eg

```
Num. multisession licenses      12
  hml1107475.europe.temenosgroup.com  6 sessions(s) in-use
  hml-bladep6a1.europe.temenosgroup.com 0 sessions(s) in-use
  hml-bladep6a3                      0 sessions(s) in-use
Total 1 license(s) used out of 12
```

and for WebSession, it is the total number of licenses used out of the pool, eg

```
Num. Websession licenses      4, Number systems 2
  hml-p6train.europe.temenosgroup.com 28 sessions(s) in-use
  10.44.245.135                   1 sessions(s) in-use
Total 29 license(s) used out of 40
```

## 5\_20323

Re-instating (R option for the WHERE command

Displays the raw output for the WHERE command. NO Headings, NO PIDS, Single line for each program executed

After Fix:

-----

```
jsh ~/src/International/5.2/QA -->WHERE (R
1  6  neelima  2
1  6  neelima  2
2  7  neelima  1
jsh ~/src/International/5.2/QA -->
```

## 5\_20324

RTC776950 | jBASE5.2 | Issues formatting using a US locale.

Check dp so we only use locale format for outputting dates when not running in jagent,

via jagent the client application should do the formatting

## 5\_20325

RTC778752 | jBASE5.2 | Some ITYPES are failing via ODBC

Only pass input/output conversions in the metadata if not running via jbase\_agent.

## 5\_20326

RTC780266 | jBASE5.2 | [jODBC] Poor performance when using a CATALOG File

Fix issue with cached records not being located for joins via a catalog file.