



jBASE Product Release Notice

Product:	jBASE 5.2
Version:	5.2.28
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

jBASE 5.2.27 patch release includes patches PN5_20357 through PN5_20363

jBASE 5.2.28 patch release includes patches PN5_20364 through PN5_20375

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_jbase5228_aix.tar.gz
```

Install the jBASE release using :

```
tar -xvf 64bit_jbase5228_aix.tar
```


On Windows systems

Run the installer, e.g. '64bit_jbase5228_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 5.2.28 Patch Release

RTC969701/TR101561	fixed by patch 5_20364
RTC993066/TR202287	fixed by patch 5_20365
Internal QA	fixed by patch 5_20366
TR202286	fixed by patch 5_20367
TR202284/TR202285	fixed by patch 5_20368
RTC993066/TR202287	fixed by Patch 5_20369
TR202274	fixed by patch 5_20370
Build Change	fixed by patch 5_20371
RTC1035125/TR202292	fixed by patch 5_20372
RTC1061653/TR202291	fixed by patch 5_20373
Internal QA	fixed by Patch 5_20374
TR202288	fixed by patch 5_20375

Patches incorporated in jBASE 5.2.28 Patch Release

5_20364

SQLSELECT, with LPTR and / or '(P' option, does not send output to printer.

Add LPTR option to SQL jBC commands, previously (P could be picked up incorrectly.

e.g.

```
INSERT INTO MYTABLE (ID, DATA) VALUES (123,'P');
```

(LPARAM followed by P in the last word of a command)

If output need to be printed use LPTR on the end.

```
INSERT INTO MYTABLE (ID, DATA) VALUES (123,'P') LPTR;
```

5_20365

jODBC Queries returning incorrect multivalued data

Check for catalog entries for all types of commands.

Previously the catalog was only checked for specific SQL commands, this is no longer necessary.

5_20366

Fix to the QA test

5_20367

Jrfs processes increment license counts (1001948)

The actual problem is not with jRFS but the licensing utility which counts all the port and associate it with available license.

Now these utilities have been corrected to count only those ports which are not of type jRFS.

To Test.

- 1) Install jBASE 5.2.
- 2) Configure jRFS Client and Server Configuration namely in machines C and S
- 3) Remove the License in machine 'S'
- 4) Create a client connection and hold the connection like the output of very large LIST command
- 5) now perform jlicensinginfo and jproclid command.

<BEFORE FIX>

jproclid and jlicensinginfo command will show as if one license was taken

<AFTER FIX>

Ports used by jRFS will not be counted, jproclid will show separate column for jRFS ports.

5_20368

Do not apply complex Conversions (attribute 7 of DICTionary) to TOTAL / GRAND TOTAL data

The only conversions (attribute 7 of DICTionary) should be formatting, eg 'MD', 'MR' etc conversions

To test :

file containing :

```
item1
001 1
```

```
item2
001 2
```

DICT file conversion

```
001 A
```

```
002 0
```

```
003 Converted
```

```
004
```

```
005
```

```
006
```

```
007 CALL xsub * Note this conversion is NOT recommended in attribute 7 but should be placed
                in attribute 8 in the 'real world'
```

```
008
```

```
009 L
```

```
010 6
```

Basic Subroutine xsub

```
001 SUBROUTINE xsub
```

```
002 INCLUDE qbasiccommonpick
```

```
003 newpick(12) = access(3)<1>
```

```
004 RETURN
```

LIST file TOTAL conversion

should display :

```
item1 1
```

```
item2 2
```

```
====
```

```
0 ( yes '0' because the specified conversion is 'invalid' in attribute 7 )
```

Prior to this patch :

'Invalid or uninitialised variable' was displayed and the jBASE Debugger entered

5_20369

Add support to limit associated data,

Previously any limiting was not applied to all associated data causing the resulting columns to be out of sync,

Test Data:

```
a, 1]2]3
b, x]y]z
c, k]]m
```

```
SELECT a,b,c from table where a != 2
```

would result in..

```
A B C
1 x k
3 y l
```

Although the limiting to column [A] has been applied, in an associated data set the same limiting should have also been applied to [B] and [C], expected result should be..

```
A B C
1 x k
3 z m
```

5_20370

Fix for doing a SELECT using a Jedi Driver when the file has a secondary index.
Test library was sent to client for Windows, which resolved the issue.

5_20371

Include the data types header file for jBC compilation on RedHat7, to fix errors of the form

```
/home/alan/5.0_rels/jbc5.2.27/include/jedi.h:527:2: error: unknown type name 'ino_t'

    ino_t      ino;    // The i-node number of a file
    ^
```

5_20372

odbc performance - TR202292/PACS00372461

Various fixes to try and improve ODBC/SQL performance.

5_20373

Comparison of date columns does not work correctly

Fix issue with date comparisons, previously the right hand side attribute was not left in internal format before checking the expression.

expression would end up being,
[123456 = 2014-06-07]

Instead of
[123456 = 123456]

Values must be in internal format for comparisons. (EQ/GT/LT/LTE/GTE)

5_20374

Tidy up some of the QA jobs so that they work correctly on Windows.

5_20375

MultiSession Licensing.

If the name of the connecting client machine is not available, default to its IP address so the licence can be associated to its IP address instead.

Prior to this change, because the machine name could not be resolved a standard licence was being allocated.