



jBASE Product Release Notice

Product:	jBASE 5.2
Version:	5.2.25
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

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_jbase5225_aix.tar.gz
```

Install the jBASE release using :

```
tar -xvf 64bit_jbase5225_aix.tar
```


On Windows systems

Run the installer, e.g. '64bit_jbase5225_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 5.2.25 Patch Release

RTC808303/TR202246	fixed by patch 5_20334
Internal	fixed by patch 5_20335
RTC805893/TR202236	fixed by patch 5_20336
RTC799190/TR202239	fixed by patch 5_20337
RTC802993/TR202243	fixed by patch 5_20338
RTC839176/TR202251	fixed by patch 5_20339
RTC800416/TR202240	fixed by patch 5_20340
RTC800892/TR202242	fixed by patch 5_20341
RTC817477/TR202248	fixed by patch 5_20342
RTC796497/TR202237	fixed by patch 5_20343
RTC814899/TR202247	fixed by patch 5_20344
RTC806670/TR202245	fixed by patch 5_20345

Patches incorporated in jBASE 5.2.25 Patch Release

5_20334

NULL Dates in filters are treated as '1967-12-31'

Fix issue with NULL strings being interpret as 0 for dates.

Previously the following statement would return the wrong results.

```
SQLSELECT Account_ID, Account_Birth_Date FROM ACCOUNT WHERE Account_Birth_Date =
'1967-12-31'
  RECID      Account_Bi
  -----
  2
  2793
  2794
  2279
Selected 4 rows.
```

This is incorrect as the dates are NULL not 0.

5_20335

Internal

5_20336

Incorrect precision when querying aggregate fields

The main issue was that if we do

```
SUM(XXXX)
```

The default column created will be of type VARCHAR(), all this change does if add a default type of double. will also sets up date columns and has an error check for joins that it should now be able to figure out the table name when an attribute comes from a catalog entry that uses the full file path.

The QA tests are existing ones that have their column sizes altered now that we use different default column details.

5_20337

Allow 'DICT filename' to be specified for 'NSELECT'

To test :

```
NSELECT DICT file mylist
```

should no longer display :

```
** Error [ 201 ] ** Unable to open file DICT
```

5_20338

Provide correct source line number for failed CALL in Debugger output

To test:

[Basic Program and Subroutine]

testprog

* line 1

* line 2

CALL testsub ;! Error message should refer to 'Line 3'

testsub

SUBROUTINE testsub(param1)

RETURN

should display :

'SUBROUTINE testsub' called with incorrect arguments, Line 3, Source testprog

Prior to this patch :

'SUBROUTINE testsub' called with incorrect arguments, Line 1, Source testprog

was displayed

5_20339

Correct 'DWA' conversion of negative values

To test :

[Basic Program]

CRT SQUOTE(OCONV(-1,'DWA'))

should display :

'Saturday'

Prior to this patch :

'Sunday'

was displayed for all negative values

5_20340

jQL Translated data does not correlate (line up) with sub-valued source data

Fix issue with sub values not lining up when using an A correlatives to call a T correlative.

5_20341

TRANS() function does not align sub-valued data correctly

Fix issue with empty sub values not being populated when using the jBC TRANS() function.

5_20342

Ensure new record is not available in PreWrite trigger

To test :

```
CREATE-FILE DATA testfile 1
CREATE-TRIGGER testfile PREWRITE triggersub
```

triggersub

```
SUBROUTINE triggersub(file, event, prerc, flags, id, rec, err)
READ rrec FROM file,id THEN
  CRT 'Error in pre write trigger, id exists'
END ELSE
  CRT SQUOTE(id):' not found during PreWrite trigger' ;! expected output
END
RETURN
```

[Basic Program]

```
OPEN 'testfile' TO file ELSE STOP 201,'testfile'
TRANSTART ELSE CRT 'Transtart failed'
WRITE 'data' ON file,'id'
```

should display :

'id' not found during PreWrite trigger

Prior to this patch :

Error in pre write trigger, id exists

was displayed

5_20343

jQL A-correlative is not processing all multi-values correctly

Fix issue with sub values not all being processed, this is a similar issue to change 110982, when processing groups of MVÆs we need to use replace with the attributes absolute position so that any empty MVÆs also get created.

5_20344

Return 'exit code' of no zero when 'jcheck' reports a 'corrupt file'
Prior to this patch 'jcheck' returned '0' (zero)

To test :

```
jcheck corrupt_file  
[ Windows ]  
echo %ERRORLEVEL%
```

```
[ Unix ]  
echo $?
```

should display :

```
Checking file corrupt_file  
ERROR! SeekValue 19088640 greater then file size 8192  
ERROR! Group 0 Problem with seek value 0000000001234500, error 0
```

```
echo %ERRORLEVEL%  
-1
```

Prior to this patch :

```
Checking file corrupt_file  
ERROR! SeekValue 19088640 greater then file size 8192  
ERROR! Group 0 Problem with seek value 0000000001234500, error 0
```

```
echo %ERRORLEVEL%  
0
```

was displayed

5_20345

JQL SELECT returns items that should not be in the SELECT

Check that LISTs generated by using conversions to get the IDÆs from another table return the correct number of values.

Previously the following would happen.

```
jsh PROCO_MSH ~ -->SELECT IT WITH PERIOD "2013-08" AND WITH PART.NBR =  
"LABOR]" "OVERHEAD]"  
2792 Records selected  
>SAVE-LIST .A  
2792 record(s) saved to list '.A'  
jsh PROCO_MSH ~ -->GET-LIST .A  
2792 Records selected  
>SELECT IT WITH PERIOD "2013-08"  
2435 Records selected
```

This occurred because some internal cache used for processing conversions was not always cleared for all variations that can occur when processing MV