



jBASE Product Release Notice

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|-----------------|----------------------|
| Product: | jBASE 5.2 |
| Version: | 5.2.29 |
| 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

jBASE 5.2.29 patch release includes patches PN5_20376 through PN5_20387

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_jbase5229_aix.tar.gz
```

Install the jBASE release using :

```
tar -xvf 64bit_jbase5229_aix.tar
```


On Windows systems

Run the installer, e.g. '64bit_jbase5229_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 5.2.29 Patch Release

| | |
|------------------------------|-------------------------|
| RTC1001948/TR202286 | Update to patch 5_20367 |
| TR202288 | Update to patch 5_20375 |
| TR202300 | fixed by patch 5_20376 |
| Build Change | fixed by patch 5_20377 |
| RTC1083187/TR202169/TR202295 | fixed by patch 5_20378 |
| RTC1110622/TR202307 | fixed by patch 5_20379 |
| RTC1112479/TR202308 | fixed by Patch 5_20380 |
| RTC1139342/TR202299 | fixed by patch 5_20381 |
| TR202316 | fixed by patch 5_20382 |
| RTC1139315/TR202303 | fixed by patch 5_20383 |
| TR202302 | fixed by patch 5_20384 |
| TR202318 | fixed by Patch 5_20385 |
| TR202305 | fixed by patch 5_20386 |
| TR202318 | fixed by patch 5_20387 |

Patches incorporated in jBASE 5.2.29 Patch Release

5_20367

Jrfs processes increment license counts (1001948)

Update to the Patch to remove jRFS field from jprocllc

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.

5_20376

Correct behaviour of 'A;nR', 'A;nRR', 'F;nR' and 'F;nRR' (multivalue / subvalue Repeat) correlatives

To test :

DICT file RR

001 A
002 1
003 Repeat Subvalue
004
005
006
007
008 F;1RR
009 L
010 3
file item1

001 a]b]c
[where ']' are multivalue marks]

LIST file RR

should display

item1 a
b
c

Prior to this patch the 'LIST' command 'hung'

5_20377

Add support for building natively on AIX 6

To test: set up your 5.2 source code environment on the AIX 6 server and build it there

5_20378

jODBC crashes ODBC Manager in Windows 8 / 2012

TR202169 | jODBC crashes ODBC Manager in Windows 8
TR202295 | jODBC Test Connection fails on Windows 2012

Fix issue with the ODBC driver crashing when you click the 'Test' button from within the DSN in the ODBC Administrator.

Change pointers beings passed around to SQLHANDLE types.

5_20379

Mask bug when 'expression' is 'null'

Previously the following conversion would not return the correct results.

```
CRT SQUOTE( " 'L2' )  
CRT SQUOTE( OCONV(", 'L2') )  
CRT SQUOTE( OCONV(", 'L0') )  
CRT SQUOTE( FMT(", 'L0') )
```

The format expressions should return 0.00, when oconv_format_null is set in config_emulate. If the source string is NULL.

OCONV should return the source string if its length is used in the second parameter,
OCONV('AB', 'L2'), should return 'AB'
OCONV('AB', 'L10'), should return NULL, as the source string is not 10 characters long.
OCONV('AB', 'L1,10'), should return 'AB', as the source string is between 1 and 10 characters long.

OCONV should return the length of the source string if 0 is used in the second parameter,
OCONV(", 'L0'), should return '0', as the source string is 0 characters long.
OCONV('AB', 'L0'), should return '2', as the source string is 2 characters long.

5_20380

Unable to carry out math functions on date fields

Expand expressions to handle date types, previously the following was not possible.

```
SELECT value FROM table where start_date+5 < end_date
```

This fix should allow you now to:

Use maths on dates while limiting, [WHERE date+5 > value]

Use maths on dates when displaying results, [SELECT date+(5*7) AS plus_five_weeks FROM table]

Check for MV dates and process them.

5_20381

END-TIME and END-DATE attributes in the PH-HISTORY file are being populated when the job starts

Only update the PH-HISTORY file END-TIME and END-DATE attribute when the job has finished.

5_20382

Extend the Port field size in mw42 to 5 characters (was 3)

5_20383

NAMED COMMON is not reset on LOGTO

Reset any named common variables to NULL when LOGTO is used.

According to the knowledgebase on COMMON, When moving from one account to another it is advisable to use LOGTO when named common is expected to be reinitialized.

Currently dont really want to make this the default behaviour as there are so many unknown impacts on the behaviour of any clients software as its never cleared common in the past, a good example is that PH-START will use LOGTO, parameters may be passed in COMMON.

So for now this behaviour can only be enabled by setting

JBC_LOGTO_FLUSHES_NAMED_COMMON.

5_20384

jQL A-correlative is only displaying 1st associated multi-value

Check source type for left and right nodes before performing comparisons in the [IF processing code]

Previously there have been many issues related to only displaying the first multi-value when using correlatives.

e.g.

```
id: CNT
001 A
008 A;IF N(WO) # "" THEN "1" ELSE ""
009 R
010 6
```

```
id: 1
001
002
003 A]B]C
```

Result of jQL statement on jBASE 5.2.28:

```
WO CNT
A 1
B
C
```

When the expected result is,

```
WO CNT
A 1
B 1
C 1
```

The new behavior will check each source VAR for the following.

If its a literal, use REUSE()

If its a single valued attribute, use REUSE()

If its an attribute with multi-values, use whole value.

EQ, NE, LT, GT, LE, GE have been modified to use the new behavior.

5_20385

Use Index created for I types during jQL Selection

To test :

DICT file itype

```
001 I
002 @RECORD<1>
003
004 Attr1
005 5L
```

CREATE-INDEX -w file itype

```
jsh ->WHERE (V
[ note the number of 'READ's reported for this process ]
```

```
jsh -> SELECT file WITH itype = ""
```

```
jsh -> WHERE (V
```

The number of 'READ'S should not have increased substantially

Prior to this patch the number of 'READ'S would have increased by the number of items in the file

5_20386

'jchmod -t' (display current details) should not update file

To test :

Note current 'timestamp' of 'file' using 'dir' (Windows) 'ls -la' (Unix)

```
jchmod -t file
```

The timestamp should not change

Prior to this patch a subsequent 'dir' (Windows) 'ls -la' (Unix) showed an updated time

5_20387

CREATE-INDEX file Idesc did not generate the associated LookUp code

To test :

DICT file Idesc

```
001 I
002 @RECORD<1>
003 MCU
004 Attr1
005 5L
```

CREATE-INDEX file Idesc

should display :

Notice: Command converted to 'CREATE-INDEX -IMCU file Idesc BY ITYPE(\RECORD<1>)'

Prior to this patch the message did not include '-IMCU' and LIST-INDEX file' did not show any associated LookUp