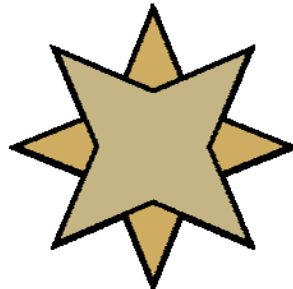


Determining Your Btrieve Engine Version

A White Paper From

Goldstar Software Inc.



For more information, see our web site at
<http://www.goldstarsoftware.com>

Determining Your Btrieve Engine Version

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It is very common for people to know that they are using Btrieve, but to not know exactly which version they are using. Moreover, the list of related files is often a mystery, especially for Btrieve 6.15 versions, and some users are simply without a clue as to what is part of Btrieve and what is not.

This paper was created so that someone could locate the Btrieve files on their workstation or server and determine the exact version, including user count, where appropriate.

NetWare Server Engines

With NetWare servers, it is possible to have any version of Btrieve from 5.x all the way through Pervasive.SQL V8. Many users see the version reported from BREQUEST and assume that this is their Btrieve version -- it just isn't so! You must query the server to determine exactly which version of BTRIEVE.NLM you have.

On older versions of NetWare, you can do this with the "MODULES" command, which lists all the loaded modules on the server. Then, watch for the BTRIEVE.NLM to scroll by. For NetWare 4.11 and above, you can use the command "MODULES BTR*" to list *only* those modules that start with "BTR", which will save some searching.

Btrieve 5.x

If you get a version of Btrieve that is 5.x, it may be hard to tell exactly which patch you have. You should check the version of the BTRIEVE.NLM file on the server for exact details, and contact Goldstar Software for help in identifying the exact release.

Btrieve 6.10

If you have Btrieve 6.10, it is also important to know the subrelease. Btrieve 6.10 supports DOS applications and Win16 applications (through the DOS hooks) only. You cannot run Win32 applications to this engine! Here's a list of releases from this version:

- 6.0 (in the NetWare SQL 3 box): May 1992
- 6.10a (in the NetWare 3.12 box, a very unstable release): Jan 1993
- 6.10c: (in the NetWare 4.01+ box, a very STABLE release!): Nov 1993
- 6.10f: (in the NetWare 4.1x and NetWare 5.0 box, with 4 bug fixes from 6.10c): October 1994

Btrieve 6.15

With Btrieve 6.15, it is also important to note the subrelease, but they started using numbers instead of letters. It is interesting to note that the DOS requester started reporting itself as 6.16 throughout these releases, and eventually 7.00.xxx, but the engine was still 6.15. The following list shows the Btrieve 6.15 releases in order:

- 6.15.1 was released with SSQL 3.01 in 11/1994. First release of Btrieve.nlm v6.15.x (there was never a "plain" 6.15)
- 6.15.2 started the "Btrieve for NetWare" releases in 03/1995
- 6.15.525 patch update released in 06/1995
- 6.15.1208 patch update released in 12/1995
- 6.15.430 patch update released in 08/1996
- 6.15.431 patch update released in 09/1996 (only change was a fix to bad DOS requester from .430 release)
- 6.15.435 patch update released in 12/1996 (TCP/IP support for NT added via requester changes; no updates to Btrieve.NLM)
- 6.15.440 patch update released in 03/1997 (more requester updates; no engine change)
- 6.15.445 patch update released in 08/1997 (engine & requester updates)
- 6.15.451 patch update released in 03/1998 (engine updates) [GS Recommended Version!]

Pervasive.SQL (All Releases)

With the release of Pervasive.SQL 7, Pervasive Software started including the SQL engine "in the box" with the Btrieve engine. As a result, there are many more components in these releases. They also completed a split between the Btrieve component (BTRIEVE.NLM) and the MicroKernel Database Engine (NWMKDE.NLM). Because of this, if you find a version of BTRIEVE.NLM that is v7 or above, you must also check the version of the module NWMKDE.NLM. As mentioned above, you can find this quickly on newer operating systems with the command "MODULES NWMK*".

Pervasive.SQL 7

Depending on the Build number you find on NWMKDE.NLM, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 7.00.200 (FCS) Build 76, Feb 1998
- 7.00.300 (SP1) Build 91, Jun 1998
- 7.00.400 (SP2) Build 104, Sep 1998
- 7.00.500 (SP3) Build 112, Jan 1999
- 7.00.600 (SP4) Build 132, Apr 1999
- 7.00.700 (SP5) Build 152, Sep 1999
- 7.16.810 (SP6) Build 201, Sep 2001

To properly patch Pervasive.SQL 7, you must first patch to SP3, then to SP5, and then to SP6. You cannot go direct from SP2 to SP5, for example!

Pervasive.SQL 2000/Pervasive.SQL 2000i

Depending on the Build number you find on NWMKDE.NLM, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 7.50 (FCS) Build 146, Jun 1999
- 7.51 (SP1) Build 154, Sep 1999
- 7.80 (SP2) Build 192, Jun 2000 (This was a defective release! Do not use!)
- 7.82 (SP2a) Build 198, Aug 2000
- 7.90 (SP3) Build 230, Mar 2001 (Also called Pervasive.SQL 2000i)
- 7.94 (SP4) Build 251, Dec 2001

To properly patch Pervasive.SQL 2000, your best bet is to download the evaluation software for the current version and simply install it. It will detect the existing installation and archive the old pieces or it, as needed.

Pervasive.SQL V8

Depending on the Build number you find on NWMKDE.NLM, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 8.00 (FCS) Build 114, Dec 2002
- 8.10 (SP1) Build 117, Mar 2003
- 8.10 (SP1 HotFixes) Build xxx, Oct 2003
- 8.50 (Security Feature Pack) Build 189, Oct 2003
- 8.10/8.50 (Ecosystem HotFix II) Build xxx, March, 2004
- 8.60 (SP2) Build xxx, July 2004
- 8.70 (SP3) Build 014, August 2005

Pervasive PSQL v9

Depending on the Build number you find on NWMKDE.NLM, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 9.00 (FCS) Build xxx, April 2005
- 9.10 (SP1) Build xxx, June 2005

Linux Server Engines

Linux users have it real easy, since the Linux engine is new with Pervasive.SQL 2000, so you already know that you do not have any older engines than this. However, there is still the question of the exact release, or if you have Pervasive.SQL V8 or not. Luckily, the following command will query the Package Manager to determine which release you have installed:

```
$ rpm -qa | grep Pervasive
Pervasive.SQL-server-2000.SP3.225.001-RedHat60
```

If the command does not include a build number, then you have the original release of Pervasive.SQL 2000.

Windows NT Server Engines

There was no Btrieve 5.x or 6.10 for Windows NT Server -- the first release was Btrieve 6.15! The easiest way to determine the version of the database on a Windows NT Server is to look to the Services applet on the control panel:

- "BTI Microkernel Engine" indicates Btrieve 6.15.
- "Btrieve v7.0 for Windows NT" indicates Pervasive.SQL 7.
- "Pervasive.SQL 2000 (Transactional)" indicates Pervasive.SQL 2000i.
- "Pervasive.SQL (Transactional)" indicates Pervasive.SQL V8 or Pervasive PSQL v9.

Once you know the main version, you can find out the sub-release by checking the information below.

Btrieve 6.15

With Btrieve 6.15, sub-releases were denoted by numbers. You can locate the exact version by checking the dates and embedded version information from various files. The core engine module is called NTMKDE.DLL and is a good place to start. The following list shows the Btrieve 6.15 for Windows NT Server releases in order:

- First release of 6.15 was in 05/1995.
- 6.15.1208 patch update released in 03/1996
- 6.15.430 patch update released in 08/1996
- 6.15.435 patch update released in 11/1996 (TCP/IP support for NT added via requester changes)
- 6.15.440 patch update released in 03/1997 (more requester updates; no engine change)
- 6.15.445 patch update released in 08/1997 (engine & requester updates)
- 6.15.451 patch update released in 03/1998 (engine updates) [GS Recommended Version!]

Pervasive.SQL (All Releases)

With the release of Pervasive.SQL 7, Pervasive Software started including the SQL engine "in the box" with the Btrieve engine. As a result, there are many more components in these releases. To quickly check your version, right-click on NTMKDE.DLL and go to the "Version" tab.

Pervasive.SQL 7

Depending on the Build number you find on NTMKDE.DLL, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 7.00.200 (FCS) Build 76, Feb 1998
- 7.00.300 (SP1) Build 91, Jun 1998
- 7.00.400 (SP2) Build 104, Sep 1998
- 7.00.500 (SP3) Build 112, Jan 1999
- 7.00.600 (SP4) Build 132, Apr 1999
- 7.00.700 (SP5) Build 152, Sep 1999
- 7.16.810 (SP6) Build 201, Sep 2001

To properly patch Pervasive.SQL 7, you must first patch to SP3, then to SP5, and then to SP6. You cannot go direct from SP2 to SP5, for example!

Pervasive.SQL 2000/Pervasive.SQL 2000i

Depending on the Build number you find on NTMKDE.DLL, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 7.50 (FCS) Build 146, Jun 1999
- 7.51 (SP1) Build 154, Sep 1999
- 7.80 (SP2) Build 192, Jun 2000 (This was a defective release! Do not use!)
- 7.82 (SP2a) Build 198, Aug 2000
- 7.90 (SP3) Build 230, Mar 2001 (Also called Pervasive.SQL 2000i)
- 7.94 (SP4) Build 251, Dec 2001

To properly patch Pervasive.SQL 2000, your best bet is to download the evaluation software for the current version and simply install it. It will detect the existing installation and archive the old pieces or it, as needed.

Pervasive.SQL V8

Depending on the Build number you find on NTMKDE.DLL, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 8.00 (FCS) Build 114, Dec 2002
- 8.10 (SP1) Build 117, Mar 2003
- 8.10 (SP1 HotFixes) Build xxx, Oct 2003
- 8.50 (Security Feature Pack) Build 189, Oct 2003
- 8.10/8.50 (Ecosystem HotFix II) Build xxx, March, 2004
- 8.60 (SP2) Build xxx, July 2004
- 8.70 (SP3) Build 014, August 2005

Pervasive PSQL v9

Depending on the Build number you find on NTMKDE.DLL, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 9.00 (FCS) Build xxx, April 2005
- 9.10 (SP1) Build xxx, June 2005

OS/2 Server Engines

There was a brief time where Pervasive Software supported an OS/2 database engine. The first engines were available for Btrieve 6.15, and a later version (actually, a predecessor to Pervasive.SQL 7) was available for a short time and called Btrieve v6.30 for Warp Server. This was in 1996, and as we all know, IBM lost the Battle of the Operating Systems, so the OS/2 stuff is only a footnote in history now.

DOS Workstation Engines

Btrieve for DOS was a very simply database. The earlier versions were compiled in a single file, called BTRIEVE.EXE. Running this program gave you a header screen with the exact database version. This helps you identify all of the older Btrieve 4.x and 5.x engines.

For Btrieve 6.15, there were several sub-releases:

- 6.15 First release in 07/1994
- 6.15.1 patch update released in 10/1994
- 6.15.321 patch update released in 03/1995 (also released in SSQL for DOS v3.01)
- 6.15.525 patch update released in 06/1995
- 6.15.925 patch update released in 10/1995
- 6.15.430 patch update released in 03/1997 [GS Recommended Version!]

There is no Pervasive.SQL engine for DOS.

Windows (16-bit) Workstation Engines

There were two versions of Btrieve for Windows, supporting 16-bit applications, Btrieve 5.x and Btrieve 6.15.

Btrieve 5.x

The core interface module for Btrieve 5.x was called WBTRCALL.DLL, and some of these versions, usually those 50K+ in size and dated prior to 1993, are the Btrieve 5.x workstation engine.

Btrieve 6.15

Starting with Btrieve 6.15, the new engine module was called WBTR32.EXE. Like with the Windows NT server engines, you can locate this file and determine which version you have:

- First release of 6.15 in 05/1994 (first product release after the spin-off from Novell!)
- 6.15.1 patch update released in 09/1994 (6.15.1 also released with SSQL for Windows 3.01 in 8/94)
- 6.15.2 patch update released in 11/1994
- 6.15.306 patch update released in 03/1995

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- 6.15.525 patch update released in 06/1995
- 6.15.824 patch update released in 08/1995
- 6.15.925 patch update released in 10/1995
- 6.15.430 patch update released in 03/1997

Other files related to 16-bit Btrieve requesters and engines include:

- WBTRCALL.DLL
- WBTRVRES.DLL
- WBTICOMM.DLL
- WBTRLOCL.DLL

There is no 16-bit Windows engine of Pervasive.SQL.

Windows (32-bit) Workstation Engines

In the 32-bit world, the first database engine was Btrieve 6.15, but newer engines for Pervasive.SQL and above exist as well!

Btrieve 6.15

Btrieve 6.15's engine is W32MKDE.EXE. Locate this file to determine which version you have:

- First release of 6.15 in 10/1995
- 6.15.430 patch update released in 3/1997
- 6.15.451 patch update NEVER released (engine updates)

Other files related to 32-bit Btrieve requesters and engines include:

- WBTRV32.DLL
- W32MKRC.DLL
- W32BTICM.DLL
- W32NR.DLL
- W16NR.DLL
- WBTRTHNK.DLL

Pervasive.SQL 7

Depending on the Build number you find on W3DBSMGR.EXE, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 7.00.200 (FCS) Build 76, Feb 1998
- 7.00.300 (SP1) Build 91, Jun 1998
- 7.00.400 (SP2) Build 104, Sep 1998
- 7.00.500 (SP3) Build 112, Jan 1999
- 7.00.600 (SP4) Build 132, Apr 1999

Information Provided By **Goldstar Software Inc.**

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- 7.00.700 (SP5) Build 152, Sep 1999
- 7.16.810 (SP6) Build 201, Sep 2001

To properly patch Pervasive.SQL 7, you must first patch to SP3, then to SP5, and then to SP6. You cannot go direct from SP2 to SP5, for example!

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Depending on the Build number you find on W3DBSMGR.EXE, you can relate this directly back to the Pervasive.SQL Service Pack Level:

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- 7.51 (SP1) Build 154, Sep 1999
- 7.80 (SP2) Build 192, Jun 2000 (This was a defective release! Do not use!)
- 7.82 (SP2a) Build 198, Aug 2000
- 7.90 (SP3) Build 230, Mar 2001 (Also called Pervasive.SQL 2000i)
- 7.94 (SP4) Build 251, Dec 2001

To properly patch Pervasive.SQL 2000, your best bet is to download the evaluation software for the current version and simply install it. It will detect the existing installation and archive the old pieces or it, as needed.

Pervasive.SQL V8

Depending on the Build number you find on W3DBSMGR.EXE, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 8.00 (FCS) Build 114, Dec 2002
- 8.10 (SP1) Build 117, Mar 2003
- 8.10 (SP1 HotFixes) Build xxx, Oct 2003
- 8.50 (Security Feature Pack) Build 189, Oct 2003
- 8.10/8.50 (Ecosystem HotFix II) Build xxx, March, 2004
- 8.60 (SP2) Build xxx, July 2004
- 8.70 (SP3) Build 014, August 2005

Pervasive PSQL v9

Depending on the Build number you find on W3DBSMGR.EXE, you can relate this directly back to the Pervasive.SQL Service Pack Level:

- 9.00 (FCS) Build xxx, April 2005
- 9.10 (SP1) Build xxx, June 2005

If you've tried & still can't figure it out, [contact Goldstar Software](#) and let us work with you to help!