Speedbase database limitations

This document describes the various database size and record number limitations on a number of different database formats.

Database format	Total size of database	Total no. of records of all types in the database	Largest size of single record type	Highest number of records per record type
Global "native" format	2Gb. However, this limit can be raised to 6Gb if each of the 3 datafiles are held on a different GSM server.	36 * 8,388,607, although in practice much less due to limitations on where the start point can be in the data Files for a record type. You can typically have 3 record types with the maximum, one in each data file and all the rest must fit in below these 3. The exact number is dependent on the record length. Note that $BADGN automatically puts the largest record set at the end of the data files.	2Gb	8,388,607
Pervasive pre SQL-7 (Btrieve-7) PervasiveIncludeIdentity=Off	36 * 2Gb 2Gb is a Btrieve limitation	Variable as the Btrieve files contain **both** Index and Data in the same file but typically it's of the order of 36 * 3,000,000 to 4,000,000.	2Gb 2Gb is a Btrieve limitation	Variable as the Btrieve files contain **both** Index and Data in the same file but typically it's of the order of 3,000,000 to 4,000,000.
Pervasive SQL-7, 2000 and later PervasiveIncludeIdentity=Off	36 * 64Gb 64Gb is a Btrieve limitation	Variable as the Btrieve files contain **both** Index and Data in the same file but typically it's of the order of 36 * 3,000,000 to 4,000,000.	64Gb 64Gb is a Btrieve limitation	Variable as the Btrieve files contain **both** Index and Data in the same file but typically it's of the order of 3,000,000 to 4,000,000.

Pervasive pre SQL-7 (Btrieve-7) PervasiveIncludeIdentity=On	36 * 2Gb 2Gb is a Btrieve limitation	36 * 8,388,607 but the 8,388,607 includes all deleted records as well until a rebuild is done.	2Gb 2Gb is a Btrieve limitation	8,388,607 but the 8,388,607 includes all deleted records as well until a Rebuild is done
Pervasive SQL-7, 2000 and later PervasiveIncludeIdentity=On	36 * 64Gb 64Gb is a Btrieve limitation	36 * 8,388,607 but the 8,388,607 includes all deleted records as well until a Rebuild is done.	64Gb 64Gb is a Btrieve limitation	8,388,607 but the 8,388,607 includes all deleted records as well until a Rebuild is done
Microsoft SQL V7 IdentityFillin=Off	Until the disk that the database is stored on is full.	36 * 8,388,607 but the 8,388,607 includes all deleted records as well, when this limit is exceeded the Gateway automatically fills in deleted records until a Rebuild is done. While the fill in is occurring Write Operations are very slow but do continue.	Until the disk that the database is stored on is full.	8,388,607 but the 8,388,607 includes all deleted records as well, when this limit is exceeded the Gateway automatically fills in deleted records until a Rebuild is done. While the fill in is occurring Write Operations are very slow but do continue.
Microsoft SQL-2000 IdentityFillin=Off	Until the disk that the database is stored on is full.	36 * 8,388,607 but the 8,388,607 includes all deleted records as well, when this limit is exceeded the Gateway automatically fills in deleted records until a Rebuild is done. While the fill in is occurring Write Operations are very slow but do continue.	Until the disk that the database is stored on is full.	8,388,607 but the 8,388,607 includes all deleted records as well, when this limit is exceeded the Gateway automatically fills in deleted records until a Rebuild is done. While the fill in is occurring Write Operations are very slow but do continue.
Microsoft SQL V7 IdentityFillin=On	Until the disk that the database is stored on is full.	36 * 8,388,607, the Gateway automatically fills in deleted records. This results in very slow Write operations.	Until the disk that the database is stored on is full.	8,388,607, the Gateway automatically fills in deleted records. This results in very slow Write operations.
Microsoft SQL-2000 IdentityFillin=On	Until the disk that the database is stored on is full.	36 * 8,388,607, the Gateway automatically fills in deleted records. This results in very slow Write operations.	Until the disk that the database is stored on is full.	8,388,607, the Gateway automatically fills in deleted records. This results in very slow Write operations.

DBX with Pervasive SQL-7, 2000 and later, PervasiveIncludeIdentity=Off	512 * 64Gb 64Gb is a Btrieve limitation	512 * 2,147,483,647 / 2 (approx)	64Gb 64Gb is a Btrieve limitation	2,147,483,647 / 2 (approx)
DBX with Pervasive SQL-7, 2000 and later, PervasiveIncludeIdentity=On	512 * 64Gb 64Gb is a Btrieve limitation	512 * 2,147,483,647	64Gb 64Gb is a Btrieve limitation	2,147,483,647
DBX with Microsoft SQL-2000, IdentityFillin is not an issue	Until the disk that the database is stored on is full.	512 * 2,147,483,647	Until the disk that the database is stored on is full.	2,147,483,647