

# B\$BNC - Create New non-DBX SQL Format Speedbase Database

The B\$BNC routine can be used to create a new non-DBX Pervasive SQL or Microsoft SQL format Speedbase database. This routine provides the same functionality as the "Create database" option of \$BN32, \$BS32, \$BADN and \$BADS.

## 1. Invocation

To create a new non-DBX Pervasive SQL or Microsoft SQL format Speedbase database code:

```
CALL B$BNC USING cr
```

where *cr* is a control block of the following format:

```

01  CR
02  CRVERS      PIC 9(4) COMP      * Block version 1
      VALUE 1
02  CRSQL       PIC 9 COMP         * 0 = Pervasive SQL
      * 1 = Microsoft SQL
02  CRDICT      PIC X(5)          * Input dictionary name
02  CRDUID      PIC X(3)          * Input dictionary unit
02  CRSCH      PIC X(5)          * Schema file name
02  CRSUID      PIC X(3)          * Schema file unit
02  CRSERV      PIC X(47)         * Server name
02  CRPATH      PIC X(60)         * BDCF pathname
02  CRSIZE      PIC 9(7) COMP     * Database size for Microsoft SQL
02  CRNAME      PIC X(23)         * Database name for Microsoft SQL
02  CRPRTN      PIC PTR           * Mandatory Message Display Routine
02  CRDEL       PIC 9 COMP         * Overwrite flag
      * 0 = Do not overwrite previous version
      * 1 = Overwrite any previous files

```

## 2. STOP Codes and Exception Conditions

The following STOP codes may be generated by B\$BNC:

STOP code	Description
25252	Invalid CR block version number
25253	Schema name of SPACES
25254	More than 255 Index segments
25255	Missing GVF's
25256	A record set contains no indexes
25257	Number of links does not match the number of masters

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The following exceptions may be returned by B\$BNC:

<b>EXIT code</b>	<b>\$\$COND</b>	<b>Description</b>
25255	55	Interface error to the Gateway (error code in \$\$CRES)
25256	56	Record set too large for SQL
25257	57	Unable to open database using the Gateway (Gateway error in \$\$CRES)
25258	58	Unable to close database using the Gateway (Gateway error in \$\$CRES)
25259	59	Unable to open input dictionary
25260	60	Dictionary not of correct type
25261	61	Error reading dictionary
25262	62	Error creating new dictionary. (Result in \$\$RES)
25263	63	Dictionary already exists
25264	64	Error copying dictionary
25265	65	Unable to reopen dictionary
25266	66	Schema file already exists
25267	67	Error deleting database from directory

25268	68	Error deleting BDCF file
25269	69	Error deleting schema file
25270	70	Invalid schema unit id
25271	71	Unable to create schema file (error in \$\$RES)
25272	72	Dot pathname passed
25273	73	Cannot open BDCF file (error in \$\$CRES)
25274	74	Database already exists
25275	75	Cannot open file on directory
25276	76	Error writing to BDCF file
25277	77	Insufficient room on schema file unit
25278	78	Corrupt dictionary

### 3. Programming Notes

B\$BNC can only be used to create a non-DBX database. Use B\$DBXC to create a new DBX database.

The pointer to the Message Display Routine, CRPRTN, **MUST** be initialised to point to a Progress Message Display Routine that can be used to display 'keep the user happy messages' in whatever form required. If you do not want to display any messages then this routine should simply EXIT. For GSM SP-16, and earlier, **IT IS NOT SUFFICIENT TO SET THE CRPRTN POINTER TO HIGH-VALUES**. For GSM SP-17, and later, this pointer can be set to HIGH-VALUES to indicate that a Progress Message Display Routine is not required. The Progress Message Display Routine entry-point should be coded as follows:

```
ENTRY routine USING ms
```

where *ms* defined as follows

The following Message Numbers are defined:

Message Number	Meaning
1	Looking for server
2	Creating database
3	Closing database
4	Deleting old database
5	Generating schema file - please wait
6	Generating BDCF file - please wait

## 4. Examples

[EXAMPLES REQUIRED]

## 5. Copy-Books

See copy-book "\$0" in copy-library S.SYS32. Note that this copy-book **MUST** be expanded using a SUBSTITUTING clause. For example:

```
COPY "$0" SUBSTITUTING "CR"
```

## 6. See Also

B\$DBXC Create a new DBX database.  
 B\$BNR Rebuild non-DBX database  
 B\$BNN Convert non-DBX database  
 B\$BND Delete non-DBX database  
 B\$BNP Change path of non-DBX database