

B\$DBXL – Load pre DBX Database to New

The B\$DBXL routine can be used to load a pre DBX to a new Pervasive SQL or Microsoft SQL format DBX Speedbase database. This routine provides the same functionality as the "Load pre DBX database" option of \$DXU.

1. Invocation

To load a pre DBX database to a new Pervasive SQL or Microsoft SQL format DBX Speedbase database code:

```
CALL B$DBXL USING ld
```

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

```
01  LD
02  LDVERS      PIC 9(4) COMP      * Rebuild block version
                                VALUE 1      * Must be set to 0 or 1
02  LDSCHE      PIC X(5)          * Schema file for DBX database
02  LDSUID      PIC X(3)          * and unit-id
02  LDDATE      PIC 9 COMP        * 0 = Do not change illegal dates to NULL
                                * 1 = Change illegal dates to NULL
02  LDDB        PIC X(5)          * Pre DBX database
02  LDDUID      PIC X(3)          * and unit
02  LDPROG      PIC 9 COMP        * 0 = No progress message display required
                                * 1 = Display progress messages
02  LDPRTN      PIC PTR           * Pointer to the progress
                                * routine which must be set
                                * if LDPROG = 1
```

2. STOP Codes and Exception Conditions

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

STOP code	Description
25424	Invalid LD block version number
25425	Incompatible GSM configuration

The following exception conditions may be returned by B\$DBXL:

EXIT code	\$\$COND	Description
25435	35	Unable to exclusively open DBX dictionary
25436	36	DBX Dictionary of wrong type

25437	37	I/O Error on DBX dictionary (the dictionary may be corrupt)
25438	38	I/O Error on DBX schema file (the schema file may be corrupt)
25439	39	Gateway interface error on DBX database (error code returned in \$\$CRES)
25440	40	Error reopening DBX database (error code returned in \$\$CRES)
25441	41	Unable to exclusively open DBX schema file
25442	42	DBX schema file of invalid type
25444	44	Unable to establish communication (DBX database)
25472	72	Error writing to DBX database (error code returned in \$\$CRES)
25491	91	Cannot open pre DBX schema/index file exclusively
25492	92	Pre DBX schema/index file of wrong type
25493	93	Error reading pre DBX database
25494	94	Cannot open pre DBX dictionary exclusively
25495	95	Error reading from pre DBX dictionary
25496	96	Cannot open source data files exclusively
25497	97	Unable to establish communication (pre DBX database)
25498	98	Insufficient space to create data work page

25499	99	The DBX and pre DBX tables are incompatible
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3. Programming Notes

If the LDPROG flag is set then LDPRTN **MUST** point to a "Message Display Routine" in the application. This Message Display Routine will be called by B\$DBXL to display any progress messages. The Message Display Routine entry-point must be as follow:

ENTRY *routine* USING *ms dt*

where *ms* is defined as follows:

```
77 MSNO PIC 9(4) COMP * Message Number
```

and *dt* is defined as follows:

```
01 DT
02 DTRCNO PIC 9(4) COMP * Record number
02 DTRCID PIC X(2) * Record id
02 DTRNAM PIC X(6) * Record name
02 DTBLOC PIC 9(6) COMP * Block number
02 DTUSED PIC 9(6) COMP * Total blocks
```

Note also that displaying progress on every call of the progress routine may cause the time taken to load the database to increase substantially.

Important Note: The *dt* parameter is only valid for **some** Message Numbers (see below).

The following Message Numbers are defined:

Message Number	Meaning
1	Processing file number <i>dtrcno</i> record id/name <i>dtrcid/dtrnam</i> block number <i>dtbloc</i> (the <i>dt</i> parameter is valid for this Message Number)

The LDDATE flag is for specialist use only.

4. Examples

None.

5. Copy-Books

See copy-book I\$ (lower-case "L") in copy-library S.SYS32. Note that this copy-book **MUST** be expanded using a SUBSTITUTING clause. For example:

```
COPY "I$" SUBSTITUTING "RB"
```

6. See Also

B\$DBXC Create new DBX database
B\$DBXN Convert DBX database

B\$DBXD Delete DBX database
B\$DBXP Change path to DBX database
B\$DBXR Rebuild DBX database

Note that the \$DXU "Import from C-ISAM dumpset" function is **not** available as a sub-routine.