



**Program Directory for
DB2 Server for VSE
and
Guest Sharing for VSE**

Version 6 Release 1, Modification Level 0

Program Number 5648-A70

for Use with
VSE/ESA

Document Date: April 1999

GI10-4954-02

Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page iv.

This program directory, dated April 1999, applies to DB2 Server for VSE Version 6 (DB2 for VSE) Release 1, Modification Level 0 , Program Number 5648-A70 for the following:

COMPIDs	Feature Numbers	System Name
5648A7001	5811	VSE/ESA
5648A7001	5812	VSE/ESA
5648A7001	5814	VSE/ESA
5648A7001	6798	VSE/ESA

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None

1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of DB2 for VSE. You should read all of this program directory before installing the program and then keep it for future reference.

The program directory contains the following sections:

- 2.0, "Program Materials" on page 2 identifies the basic and optional program materials and documentation for DB2 for VSE.
- 3.0, "Program Support" on page 6 describes the IBM support available for DB2 for VSE.
- 4.0, "Program and Service Level Information" on page 7 lists the APARs (program level) and PTFs (service level) incorporated into DB2 for VSE.
- 5.0, "Installation Requirements and Considerations" on page 8 identifies the resources and considerations for installing and using DB2 for VSE.
- 6.0, "Installation Instructions" on page 11 provides detailed installation instructions for DB2 for VSE.

Before installing DB2 for VSE, read 3.1, "Preventive Service Planning" on page 6. This section tells you how to find any updates to the information and procedures in this program directory.

Before beginning the install process, you should review the following documents:

DB2 Server for VSE Installation, GC09-2656.

2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for DB2 for VSE is 5648-A70.

The program announcement material describes the features supported by DB2 for VSE. Ask your IBM marketing representative for this information if you have not already received a copy.

The following sections identify:

- The basic and optional program materials available with this program

2.1 Basic Machine-Readable Material

The distribution medium for this program is 9-track magnetic tape (written at 6250 BPI), 3480 cartridge, 1/4-inch tape cartridge or 4mm tape cartridge. The tape or cartridge contains all the programs and data needed for installation. DB2 for VSE is installed using the instructions included in the *DB2 Server for VSE Installation* manual, GC09-2656. See 6.0, "Installation Instructions" on page 11 for more information about how to install the program. Figure 1 describes the tape or cartridge. Figure 2 on page 3 describes the file content of the program tape or cartridge.

Note: The program tape and cartridge contain "Restricted Materials of IBM."

Figure 1. Basic Material: Program Tape

Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
6250 tape	5811	1	DB2 Server for VSE V6	N/A
		1	DB2/VSE Help Text V6	N/A
		1	DProp Capture for VSE V6	N/A
		1	SQL/DS Version 3.5.0	N/A
3480 cart.	5812	1	DB2 Server for VSE V6	N/A
		1	DB2/VSE Help Text V6	N/A
		1	DProp Capture for VSE V6	N/A
		1	SQL/DS Version 3.5.0	N/A
1/4 inch cart.	5814	1	DB2 Server for VSE V6	N/A
		1	DB2/VSE Help Text V6	N/A
		1	DProp Capture for VSE V6	N/A
		1	SQL/DS Version 3.5.0	N/A
4 mm cart.	6798	1	DB2 Server for VSE V6	N/A
		1	DB2/VSE Help Text V6	N/A
		1	DProp Capture for VSE V6	N/A
		1	SQL/DS Version 3.5.0	N/A

Figure 2. Program Tape: File Content

VOLSER	File	Name
N/A	1	DB2 for VSE Copyright Records
N/A	2	DB2 for VSE History Files
N/A	3	DB2 for VSE Product
N/A	4	Tape Mark
N/A	5	Tape Mark

2.2 Optional Machine-Readable Material

The distribution medium for optional machine-readable material is 9-track magnetic tape (written at 6250 BPI), 3480 cartridge, 1/4-inch tape cartridge, or 4 mm tape cartridge. Figure 3, Figure 4 and Figure 5 on page 4 describes the tape or cartridge.

Note: The optional machine-readable material (tape or cartridge) contains “Restricted Materials of IBM.”

Figure 3. Optional Material: Data Restore

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
5831	6250 tape	1	Data Restore for VSE	Data Restore for VSE V6
5832	3480 cart.	1	Data Restore for VSE	Data Restore for VSE V6
5834	1/4 inch cart.	1	Data Restore for VSE	Data Restore for VSE V6
6801	4 mm cart.	1	Data Restore for VSE	Data Restore for VSE V6

Figure 4. Optional Material: Control Center

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
5851	6250 tape	1	Control Center for VSE	Control Center for VSE V6
5852	3480 cart.	1	Control Center for VSE	Control Center for VSE V6
5854	1/4 inch cart.	1	Control Center for VSE	Control Center for VSE V6
6690	4 mm cart.	1	Control Center for VSE	Control Center for VSE V6

Figure 5. Optional Material: Query Management Facility (QMF)

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
6684	6250 tape	1	QMF for VSE	QMF for VSE V6
6645	3480 cart.	1	QMF for VSE	QMF for VSE V6
5965	1/4 inch cart.	1	QMF for VSE	QMF for VSE V6
6692	4 mm cart.	1	QMF for VSE	QMF for VSE V6

2.3 Program Publications

The following sections identify the basic and optional publications for DB2 for VSE.

2.3.1 Basic Program Publications

Figure 6 identifies the basic program publications for DB2 for VSE. One copy of each of these publications is included when you order the basic materials for DB2 for VSE. For additional copies, contact your IBM representative.

An asterisk (*) beside the Form Number indicates it contains "Restricted Materials of IBM."

Figure 6 (Page 1 of 2). Basic Material: Unlicensed Publications

Publication Title	Form Number
DB2 Server for VSE & VM Operation	SC09-2668
DB2 Server for VSE & VM Overview	GC09-2806
DB2 Server for VSE & VM Interactive SQL Guide and Reference	SC09-2674
DB2 Server for VSE Database Administration	GC09-2655
DB2 Server for VSE System Administration	GC09-2658
DB2 Server for VSE Application Programming	SC09-2662
DB2 Server for VSE & VM Database Services Utility	SC09-2663
DB2 Server for VSE & VM SQL Reference	SC09-2671
DB2 Server for VSE & VM Quick Reference	SC09-2670
DB2 Server for VSE Installation	GC09-2656
DB2 Server for VSE Messages and Codes	SC09-2665
DB2 Server for VSE & VM Performance Tuning Handbook	SC09-2669

Figure 6 (Page 2 of 2). Basic Material: Unlicensed Publications

Publication Title	Form Number
DB2 Server for VSE Master Index and Glossary	SC09-2667
DB2 Server for VSE & VM Licensed Program Specifications for VM Systems and for VSE Systems	GC09-2659

Figure 7. Basic Material: Licensed Publications

Publication Title	Form Number
DB2 for VSE Diagnosis Guide and Reference	LC09-2673(*)

2.3.2 Optional Program Publications

There are no optional publications for DB2 for VSE.

2.4 Program Source Materials

There are no source materials available for DB2 for VSE.

2.5 Publications Useful During Installation

You can find a list of related publications in *DB2 Server for VSE Installation*, GC09-2656.

3.0 Program Support

This section describes the IBM support available for DB2 for VSE.

3.1 Preventive Service Planning

Before installing DB2 for VSE, check with your IBM Support Center or use either Information/Access or SoftwareXcel Extended to see whether there is additional Preventive Service Planning (PSP) information that you should know. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 8. PSP Upgrade and Subset ID

UPGRADE	SUBSET	RETAIN Release
DB2VSEVM610	DB2VSE	1JM

3.2 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent.

Figure 9 identifies the component IDs (COMPID) for DB2 for VSE.

Figure 9. Component IDs

COMP ID	Component Name	CLC
5648A7001	DB2 Server for VSE V6	1JM

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of DB2 for VSE. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated. Information about the cumulative service tape is also provided.

4.1 Program Level Information

This version of DB2 Server for VSE has incorporated all closed APARs from previous versions/releases at the time of the product General Availability.

4.2 Service Level Information

Check the DB2VSEVM610 PSP bucket for any additional PTFs that should be installed or any additional install information.

Several changes are necessary, and service must be applied to run on VSE/ESA 2.4 and CICS Transaction Server 1.1. Please see INFO APAR II11930 for more information.

The Extended User Buffering code in DB2 Server for VSE is disabled. VSAM APARs DY44327, DY44537 and DY44838 are required before Extended User Buffering can be enabled. A DB2 Server for VSE APAR, PQ21173, will be available after GA to enable the Extended User Buffering code, which will pre-req these VSAM APARs.

4.3 Cumulative Service Tape

There is no cumulative service tape for DB2 for VSE.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating DB2 for VSE.

Migration Consideration:

Note: Direct migration of an SQL/DS or DB2 database to Version 6.1.0 is possible only if that database is at a Version 3 Release 1 level or better.

Note: If you wish to migrate a Version 1.3.5, Version 2.1.0 or Version 2.2.0 SQL/DS database, you must first migrate to SQL/DS Version 3.5.0.. You will then be able to migrate to DB2 for VSE V6.1.0.. DB2 for VSE includes the SQL/DS Version 3.5.0. VSE code and installation manual for this reason. Once you have migrated to Version 3.5.0, you will be able to migrate the database as outlined in the DB2 Server for VSE Installation manual, GC09-2656. Users should also note that SQL/DS V3.5.0 is only provided as a step migration tool. This means that a DB2 for VSE V6.1.0. license does not entitle the user to run SQL/DS V3.5.0 indefinitely. Nor does it entitle the user to service for V3.5.0 outside a migration scenario.

5.1 System Requirements

This section describes the environment of the system required to install and use DB2 for VSE.

5.1.1 Operating System Requirements

DB2 for VSE operates under the VSE/ESA operating system.

5.1.2 Machine Requirements

One tape drive supported by VSE/ESA is required for installation.

5.1.3 Programming Requirements

5.1.3.1 Prerequisite Programs

This section summarizes the program products required or recommended for the DB2 for VSE functions and environments available with this release. Unless otherwise stated, the database manager works with all subsequent versions, releases, and modification levels of the products listed in this section as well as with equivalent non-IBM products.

When installing DB2 for VSE on a VSE system, you require an environment provided by VSE/Enterprise Systems Architecture Version 2 Release 2 Modification 0 or later. DB2 for VSE requires VSE/VSAM, which comes included with this operating system.

This operating system also includes the following licensed program products that DB2 for VSE requires:

- VSE/POWER for Query/Report Writing support
- VSE/ICCF for an interactive development environment and
- CICS/VSE for online support.

The VSE/ESA Version 2 Release 2.0 system supplies the minimum requirements to support DB2 for VSE. However, the APARS described in 4.2, “Service Level Information” on page 7 must be applied.

Refer to the planning manual for your VSE system to determine whether DB2 for VSE is supported as an optional product.

To use the DB2 for VSE accounting facility in a CICS environment, you

If you have CICS Transactions that access local DB2 for VSE Server(s), you must use the restart resynchronization capability of CICS. The *DB2 Server for VSE Installation* manual, GC09-2656, describes the CICS table updates needed to use restart resynchronization.

If you plan to use non-DB2 for VSE facilities to archive a database, you will need the VSE/VSAM Backup/Restore Feature.

Users of Double-Byte Character Set (DBCS) data should consider the following:

- PL/I programs using DBCS require no additional preprocessing (the PL/I compiler supports DBCS).
- DBCS variables and constants are not supported in FORTRAN and Assembler programs. This does not prevent you from using DBCS in dynamically defined SQL statements.
- In COBOL II Release 2 programs, SQL identifiers, SQL host variables, and SQL labels with DBCS characters can be used in SQL statements. The COBOL Kanji Preprocessor is not required.

A complete description of the software and hardware requirements is listed in chapter 1 of the *DB2 Server for VSE System Administration* manual, GC09-2658. Read this chapter before you begin your installation.

5.1.4 DASD Storage Requirements

DASD storage requirements are described in detail in the *DB2 Server for VSE Installation* manual, GC09-2656.

Notes.

- National Language Versions of the DB2/VSE HELP TEXT and messages are included with the DB2 for VSE basic material. Refer to *DB2 Server for VSE Installation* manual, GC09-2656, for details.
- These allocations include approximately 25 percent free space to allow for maintenance.
- Maintain System History Program (MSHP) auxiliary history file si are based on suggested values in the *VSE/ESA System Control Statements* manual for your VSE operating system.
- FB-512 devices include 0671, 3370, 9332, 9335, and 9336 storage devices.

5.1.5 Processor Storage Requirements

The storage requirements for DB2 for VSE partition are:

- 9 MB without DRDA support
- 15 MB with DRDA support.

5.2 Program Considerations

The following sections list the programming considerations for installing DB2 for VSE and activating its functions.

5.2.1 Operating System Requirements

The VSE/ESA operating system is used to install DB2 for VSE.

5.2.2 Machine Requirements

There are no special machine requirements for the driving system.

5.2.3 Programming Considerations

The following sections list the programming considerations for installing DB2 for VSE and activating its functions.

5.2.4 System Considerations

5.2.5 Special Considerations

There are no special considerations for DB2 for VSE.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of DB2 for VSE.

6.1 Installing DB2 for VSE

6.1.1 Overview

To install DB2 for VSE into a VSE/ESA System, follow the instructions in the *DB2 Server for VSE Installation* manual, GC09-2656. An overview of the installation process is included in the first chapter of the manual.

6.1.2 Considerations for Installing Guest Sharing for VSE

To install Guest Sharing for VSE, follow the instructions in the *DB2 Server for VSE Installation* manual, GC09-2656. Specific instructions for Guest Sharing for VSE are included in the Installation chapter.

6.1.3 Corrections to Installation Manual

The ID of the installation tape is: **DB2/VSE....6.1.0** The installation tape ID shown in the *DB2 Server for VSE Installation* manual, GC09-2656. is incorrect.

6.1.4 Incompatibility of DBNAME Directory

The layout of the DBNAME directory has changed in R610. The R510 DBNAME directory must be updated as follows:

The DBNAME Directory is a user-definable directory of database server names. Each entry in this directory is an 80 byte record in the following format:

Column	Description	Sample Value
1	COMMENT	* = comment line
2 - 5	TPN	TOR1
7 - 14	APPLID	SYSARIOA
16	SYSDEFAULT	* = system default
17 - 34	DBNAME	SQLDB1_TOR_INV
36 - 37	PDEFAULT	X1 (partition default)
39	PRIVILEGE	Y (privileged)
41 - 44	SYSID	VMC3 (Connection)
46 - 77	REMPN	SQLMACS1

Note: A comment line is identified by the character '*' in column 1 of a record. Therefore, do not create any TPN which starts with an '*'.

TPN - Optional Alphanumeric or Hexadecimal field of up to 4 bytes that is used ONLY in a DRDA environment.

The TPN field is used by a CICS/VSE AXE transaction (TPN) to identify a DB2 for VSE Application Server. The TPN field must match the name of a CICS/VSE transaction. For more details, see the DB2 for VSE System Administration manual.

APPLID - Mandatory Alphanumeric field of up to 8 characters.

DB2 for VSE servers must have an APPLID beginning with 'SYSARIO', followed by a decimal digit or an upper case alphabet.

DB2 for VM servers (accessed through VSE Guest Sharing) must have APPLID identical to the Resource Identifier (RESID) of the Server.

SYSDEFAULT - Optional 1 character field with an '*' or blank.

The system default marker is an optional field containing either an asterisk or a blank. An asterisk in this field identifies the directory entry as the default application server in the following circumstances:

- The DBNAME initialization parameter was not specified when an application server was

- starting. Furthermore, no PDEFAULT was found.
- Online support was being started, but a server name parameter was not provided. Furthermore, no PDEFAULT was found.
 - A batch application issued an SQL CONNECT statement but a 'TO' clause was not specified. Furthermore, no PDEFAULT was found.

Only one directory entry can be identified as the default. If no directory entry is identified as system default, then the default is assumed to have APPLID 'SYSARI00' and DBNAME 'SQLDS'.

DBNAME - Mandatory Alphanumeric field of up to 18 characters.

This is the database name used to identify a unique database server in a VSE partition or the VM host. It has a one to one relationship to the APPLID field.

PDEFAULT - Optional 2 character alphanumeric field.

The partition default is an optional field containing either blanks or a partition name. It is used in the following instances to identify an application server name:

- The DBNAME initialization parameter was not specified when an application server was starting.
- Online support was being started, but a server name parameter was not provided.
- A batch application issued an SQL CONNECT statement but a 'TO' clause was not specified.

Only one default application server can be identified by a partition; however, more than one partition can default to the same application server.

PRIVILEGE - Optional 1 character field with 'Y' or blank.

This field must be associated with a valid TPN entry. A privileged TPN, as identified by the character 'Y' in this field, will be given extended use of certain database resource. This resource is an entity called

the Real Agent, under which unit of work is performed. A remote Application Requester accessing a privileged TPN will have exclusive use of a real agent until the LU6.2 Conversation terminates.

If the TPN is not privileged, the real agent is released at the end of each unit of work.

SYSID - Optional character field of up to 4 characters (A-Z, 0-9, \$,@ ,#).

This field is mandatory for remote servers.

This field specifies the remote system to which an APPC session is to be allocated. The name identifies an entry (defined as an APPC connection) in the CICS terminal control table.

REMPN - Optional Alphanumeric or Hexadecimal field of up to 32 bytes that is used ONLY in a DRDA connection.

This field must be present if SYSID is present.

This field specifies the name of the remote application. That is, the name of the transaction program that is to be run on the remote host.

USAGE-NOTES

Only one system default server can be set up. If more than one DBNAME is marked with an '*', DBNAME Directory generation will terminate with a return code 600.

After this directory has been updated with all the database server names and their corresponding APPLIDs and TPNs, it will be cataloged into a sublibrary, preferably, the DB2 for VSE production sublibrary. This directory will then be used to generate the DBNAME Directory Service phase (ARICDIR) by executing the IBM supplied JCL ARISDBID.

Note that the JCL ARISDBID will need to be modified for work disk information, for example, the DLBL and EXTENT commands and the programmer's logical unit assignments.

The registered DRDA TPN X'07F6C4C2' is defined in this macro to access Application Server with APPLID SYSARI00. This is a supplied entry for an environment where VSE DRDA Server Support is installed.

To add new entries:

- 1) add new mappings before the supplied record
- 2) choose and assign the default database server
- 3) re-catalog the member

e.g.

	SYSARI02	*SQLDB1_NY	
	SYSARI0A	SQLDB3_TOR	X1
	SYSARI0A	SQLDB3_TOR	BG
'6DB	SYSARI00	SQLDS	

SQLDB1_NY will become the system default database server with APPLID SYSARI02.

If SQLDB3_TOR is started up in partition X1, then any application executing in partition BG is not required to explicitly specify the DBNAME.

Any application executing in a partition not defined in the DBNAME directory will be accessing the system default server SQLDB1_NY started in partition F9.

To change supplied entry:

- 1) if the default TPN is not to be used for APPLID SYSARI00 or DBNAME SQLDS, change these fields only, or add a new TPN for SYSARI00. Do not delete the default entry in any case.
- 2) choose and assign the default database server
- 3) re-catalog the member

e.g.

'6DB	SYSARI00	SQLDS
	becomes	
'6DB	SYSARI02	*SQLDB1_NY

The directory does not have a maximum size. It is searched sequentially and the first entry that matches the search argument will be used. Therefore, it is possible to have overriding entries. However, excessive overrides will impact search performance and should be avoided.

Sample Layout of the DBNAME directory

```

COMMENT * - if comment
|TPN
|      |
|      |  APPLID
|      |      |
|      |      |  SYSDEFAULT * = system default
|      |      |      |
|      |      |      |  DBNAME
|      |      |      |      |
|      |      |      |      |  PDEFAULT
|      |      |      |      |      |
|      |      |      |      |      |  PRIVILEGE
|      |      |      |      |      |      |
|      |      |      |      |      |      |  SYSID
|      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |  REMTPN
|      |      |      |      |      |      |      |      |
|      |      |      |      |      |      |      |      |  7
12..5_7.....4_67.....4_67_9_1..4_6.....7
'6DB SYSARI00 *SQLDS

```

6.2 Activating DB2 for VSE

Detailed steps to get the program into operational status are defined in *DB2 Server for VSE & VM Operation*, SC09-2668.

6.2.1 NLS Language Activation Notes

If you have installed optional languages (as described in the *DB2 Server for VSE Installation* manual), you must remember to update your “LIBDEF” statements to indicate which language a DB2 for VSE Job will use. In addition, for your CICS system, if you wish ISQL users to be able to select among multiple languages (using the ISQL SET LANGUAGE command), you must update your CICS Start Up Job “LIBDEF” statements to include all the language sublibraries you wish to make available. Note that your “LIBDEF” statement must always include the “PRD2.DB2610” sublibrary.

Also, for each language to be used by CICS ISQL users or DB2 for VSE supplied CICS transactions, you must ensure that the message repository phases (such as ARIMS001, ARIMS002, ARIMD001, etc.) are defined within your CICS PPT (or relevant RDO group).

The following examples use the standard DB2 for VSE sublibrary names. Mixed Case English (“AMENG”) is always installed in the “base” DB2 for VSE sublibrary: “PRD2.DB2610.” If you install any other language, it will be installed in a separate sublibrary: “PRD2.DB261xxx.”

To set the default language for a DB2 for VSE Job to something other than “AMENG” (including CICS, DBSU, Preprocessor and Database Server Jobs) you must specify the appropriate language sublibrary before the “base” sublibrary. For example, to start your Database Server with “Uppercase English” ARI messages, use the following:

```
// LIBDEF *,SEARCH=(...PRD2.DB261S02,PRD2.DB2610...)
```

To start a DBSU job and have its ARI messages appear in “French,” use the following:

```
// LIBDEF *,SEARCH=(...PRD2.DB261S03,PRD2.DB2610...)
```

To start up CICS and allow ISQL users to select among “Mixed Case English,” “French” or “German,” **and** have “German” as the default language, use the following:

```
// LIBDEF *,SEARCH=(...PRD2.DB261S04,                                X  
                    PRD2.DB261S03,PRD2.DB2610...)
```

Note that the first DB2 for VSE sublibrary specified will be used as the default language by ISQL users and by DB2 for VSE supplied CICS transactions, unless it is overridden by the “**langid**” parameter on the CIRB transaction.

Reader's Comments

Program Directory for DB2 Server for VSE Version 6 Release 1, Modification Level 0

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For each of the topics below please indicate your satisfaction level by circling your choice from the rating scale. If a statement does not apply, please circle N.

RATING SCALE						
very satisfied	<----->				very dissatisfied	not applicable
1	2	3	4	5	N	

	Satisfaction					
Ease of product installation	1	2	3	4	5	N
Contents of program directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	1	2	3	4	5	N
Readability and organization of program directory tasks	1	2	3	4	5	N
Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
Technical level of the installation tasks	1	2	3	4	5	N
Ease of getting the system into production after installation	1	2	3	4	5	N

Did you order this product as an independent product or as part of a package?

- Independent
- Package

If this product was ordered as part of a package, what type of package was ordered?

- CustomPac
- FunctionPac
- SystemPac
- System Delivery Offering (SDO)
- Other - Please specify type:

Is this the first time your organization has installed this product?

- Yes

___ No

Were the people who did the installation experienced with the installation of these products?

___ Yes

___ No

If yes, how many years? ___

If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

Please provide the following contact information:

Name and Job Title

Organization

Address

Telephone

Thank you for your participation.

Please send the completed form to (or give to your IBM representative who will forward it to the DB2 Server for VSE Development group):

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Program Number: 5648-A70 5811
5812
5814
6798

Printed in U.S.A.

G110-4954-02

