IBM

Program Directory for

IBM DATABASE 2 SERVER for OS/390

Rexx Language Support

Version 06 Release 01, Modification Level 00

Program Number 5645-DB2

FMID JDB661H

for Use with
OS/390

Document Date: May 2000

GI10-8215-00

Note!

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

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Notices

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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 IBM Database 2 Server for OS/390 Rexx Language Support. This publication refers to IBM Database 2 Server for OS/390 Rexx Language Support as Rexx Language Support. 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 3 identifies the basic and optional program materials and documentation for Rexx Language Support.

- 3.0, "Program Support" on page 6 describes the IBM support available for Rexx Language Support.

- 4.0, "Program and Service Level Information" on page 7 lists the APARs (program level) and PTFs (service level) incorporated into Rexx Language Support.

- 5.0, "Installation Requirements and Considerations" on page 8 identifies the resources and considerations for installing and using Rexx Language Support.

- 6.0, "Installation Instructions" on page 12 provides detailed installation instructions for Rexx Language Support. It also describes the procedures for activating the functions of Rexx Language Support, or refers to appropriate publications.

- Appendix A, "Rexx Language Support Install Logic" on page 16 provides the install logic for Rexx Language Support.

Before installing Rexx Language Support, read 3.2, "Preventive Service Planning" on page 6. This section tells you how to find any updates to the information and procedures in this program directory.

Do not use this program directory if you are installing Rexx Language Support with a SystemPac or ServerPac. When using these offerings, use the jobs and documentation supplied with the offering. This documentation may point you to specific sections of the program directory as required.

If you are installing Rexx Language Support using the MVS Custom-Built Product Delivery Offering (CBPDO, 5751-CS3), a softcopy program directory is provided on the CBPDO tape which is identical to the printed copy shipped with your order. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for Rexx Language Support are included on the CBPDO tape.

1.1   Rexx Language Support Description

This feature provides Rexx Language Support for DB2 access from Rexx programs running either in a standard MVS Rexx procedure environment or for stored procedures written to use as a Rexx language.

1.2 Rexx Language Support FMIDs

Rexx Language Support consists of the following FMIDs:

JDB661H

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for Rexx Language Support is 5645-DB2.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature code, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature codes, and are not required for the product to function.

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

2.1 Basic Machine-Readable Material

The distribution medium for this program is 9-track magnetic tape (written at 6250 BPI), 3480 cartridge, or 4mm cartridge. The tape or cartridge contains all the programs and data needed for installation. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, "Installation Instructions" on page 12 for more information about how to install the program.

Figure 1 describes the tape or cartridge. Figure 2 on page 4 describes the file content of the program tape or cartridge.

Notes:

 1. The data set attributes in these tables should be used in the JCL of jobs accessing the tape, but since the data sets on the tape are in IEBCOPY unloaded format, their actual attributes may be different.

 2. If you are installing Rexx Language Support using the MVS Custom-Built Product Delivery Offering (CBPDO) (5751-CS3), some of the information in these figures may not be valid. Consult the CBPDO documentation for actual values.

 3. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

Figure 1. Basic Material: Program Tape				
Medium	**Feature Number**	**Physical Volume**	**External Label Identification**	**VOLSER**
6250 tape	5216	1	Rexx Language Supt	DB661H
3480 tape	5108	1	Rexx Language Supt	DB661H
4mm cartridge	5543	1	Rexx Language Supt	DB661H

Figure 2. Program Tape: File Content

VOLSER	File	Name	Dist Library	ORG	RECFM	LRECL	BLK SIZE
DB661H	1	SMPMCS	n/a	SEQ	FB	80	6400
	2	IBM.JDB661H.F1	SMPJCLIN	PDS	FB	80	6160
	3	IBM.JDB661H.F2	ADSNLOAD	PDS	U	0	6144
	3	IBM.JDB661H.F3	ADSNMACS	PDS	FB	80	6160

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for Rexx Language Support.

2.3 Program Publications

The following sections identify the basic and optional publications for Rexx Language Support.

No licensed or unlicensed publications are provided for Rexx Language Support.

2.3.1 Optional Program Publications

No optional publications are provided for Rexx Language Support.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for Rexx Language Support.

2.5 Publications Useful During Installation

The publications listed in Figure 3 may be useful during the installation of Rexx Language Support. To order copies, contact your IBM representative.

Figure 3 (Page 1 of 2). Publications Useful During Installation

Publication Title	Form Number
OS/390 SMP/E User's Guide	SC28-1740

Figure 3 (Page 2 of 2). Publications Useful During Installation	
Publication Title	**Form Number**
OS/390 SMP/E Reference	SC28-1806
OS/390 SMP/E Messages and Codes	SC28-1738

3.0 Program Support

This section describes the IBM support available for Rexx Language Support.

3.1 Program Services

Contact your IBM representative for specific information about available program services.

3.2 Preventive Service Planning

Before installing Rexx Language Support, you should review the current Preventive Service Planning (PSP) information. If you obtained Rexx Language Support as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO tape.

If you obtained Rexx Language Support on a product tape, or if the CBPDO is more than two weeks old when you install it, you should contact the IBM Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

PSP Buckets are identified by UPGRADEs, which specify product levels, and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for Rexx Language Support are:

Figure 4. PSP Upgrade and Subset ID		
UPGRADE	**SUBSET**	**Description**
DB2610	JDB661H	Rexx Language Support

3.3 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 5 identifies the component IDs (COMPID) for Rexx Language Support.

Figure 5. Component IDs			
FMID	**COMPID**	**Component Name**	**RETAIN Release**
JDB661H	5740XYR00	Rexx Language Support	61H

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of Rexx Language Support. 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

No APARs have been incorporated into Rexx Language Support.

4.2 Service Level Information

No PTFs against this release of Rexx Language Support have been incorporated into the product tape.

4.3 Cumulative Service Tape

A cumulative service tape, containing PTFs not incorporated into this release, might be included with this program. Installation instructions for cumulative service tapes can be found in the SMP/E publications.

If you received this product as part of a CBPDO or a ProductPac, PTFs not incorporated into this release are provided on the tape, and a separate cumulative service tape will not be provided.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Rexx Language Support. The following terminology is used:

- *Driving system*: the system used to install the program.

- *Target system*: the system on which the program is installed.

In many cases, the same system can be used as both a driving system and a target system. However, you may want to set up a clone of your system to use as a target system by making a separate IPL-able copy of the running system. The clone should include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Some cases where two systems should be used include the following:

- When installing a new level of a product that is already installed, the new product will delete the old one. By installing onto a separate target system, you can test the new product while still keeping the old one in production.

- When installing a product that shares libraries or load modules with other products, the installation can disrupt the other products. Installing onto a test system or clone will allow you to assess these impacts without disrupting your production system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install Rexx Language Support.

5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software.

5.1.2 Programming Requirements

Figure 6. Driving System Software Requirements	
Program Number	**Product Name and Minimum VRM/Service Level**
5645-A01	OS/390 SMP/E Version 2 Release 4 or higher with PTF UR51067.

5.2 Target System Requirements

This section describes the environment of the target system required to install and use Rexx Language Support.

5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software.

5.2.2 Programming Requirements

5.2.2.1 Mandatory Requisites: A mandatory requisite is defined as a product that is required without exception; this product either **will not install** or **will not function** unless this requisite is met. This includes products that are specified as REQs or PREs.

Figure 7. Mandatory Requisites	
Program Number	**Product Name and Minimum VRM/Service Level**
5645-001	OS/390 Version 1 Release 3 Base Services
5645-DB2	DB2 UDB Server for OS/390 Version 6 Base Services

5.2.2.2 Functional Requisites: A functional requisite is defined as a product that is **not** required for the successful installation of this product or for the basic function of the product, but **is** needed at run time for a specific function of this product to work. This includes products that are specified as IF REQs.

Figure 8. Functional Requisites		
Program Number	**Product Name and Minimum VRM/Service Level**	**Function**
5645-DB2	DB2 UDB Server for OS/390 Version 6	DB2 Base Services

5.2.2.3 Toleration/Coexistence Requisites: A toleration/coexistence requisite is defined as a product which must be present on a sharing system. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD at different time intervals.

Rexx Language Support has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites: A negative requisite identifies products which must *not* be installed on the same system as this product.

Rexx Language Support has no negative requisites.

5.2.3 DASD Storage Requirements

Rexx Language Support libraries can reside on 3380 or 3390 DASD.

Figure 9 on page 10 lists the total space required for each type of library.

Figure 9. Total DASD Space Required by Rexx Language Support	
Library Type	**Total Space Required**
Target	40 tracks for 3390 DASD
Distribution	28 tracks for 3390 DASD

Notes:

1. IBM recommends use of system determined block sizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, IBM recommends a block size of 32760, which is the most efficient from a performance and DASD utilization perspective.

2. Abbreviations used for the data set type are:

   U   Unique data set, allocated by this product and used only by this product. In order to determine the correct storage needed for this data set, this table provides all required information; no other tables (or program directories) need to be referenced for the data set size.

   S   Shared data set, allocated by this product and used by this product and others. In order to determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

   E   Existing shared data set, used by this product and others. This data set is NOT allocated by this product. In order to determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). This existing data set must have enough free space to accommodate the storage size given in this table.

   If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old one and reclaim the space used by the old release and any service that had been installed. You can determine whether or not these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

The following figures describe the target and distribution libraries and HFS paths required to install Rexx Language Support. The storage requirements of Rexx Language Support must be added to the storage required by other programs having data in the same library or path.

Note: The data in these tables should be used when determining which libraries can be merged into common data sets. There is no need to define these target and distribution libraries to install this feature,

because all of them were defined when DB2 base was installed. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries. All these libraries required to install this feature were defined when DB2 was installed.

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
Figure 10. Storage Requirements for Rexx Language Support Target Libraries								
SDSNLOAD	LMOD	Any	E	PDS	U	0	16	10
SDSNSAMP	Sample	Any	E	PDS	FB	80	6	3
SDSNDBRM	Data	Any	E	PDS	FB	80	6	3

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
Figure 11. Storage Requirements for Rexx Language Support Distribution Libraries						
ADSNMACS	E	PDS	FB	80	6	3
ADSNLOAD	E	PDS	U	0	16	10

5.3 FMIDs Deleted

Installing Rexx Language Support may result in the deletion of other FMIDs. To see what FMIDs will be deleted, examine the ++VER statement in the product's SMPMCS. See Appendix A, "Rexx Language Support Install Logic" on page 16 for more information on how to do this.

If you do not wish to delete these FMIDs at this time, you must install Rexx Language Support into separate SMP/E target and distribution zones.

Note: These FMIDs will not automatically be deleted from the Global Zone. Consult the SMP/E manuals for instructions on how to do this.

5.4 Special Considerations

Rexx Language Support has no special considerations for the target system.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of Rexx Language Support.

Please note the following:

- If you want to install Rexx Language Support into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets.

- Sample jobs have been provided to help perform some or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries required for SMP/E execution have been defined in the appropriate zones.

- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing Rexx Language Support

6.1.1 SMP/E Considerations for Installing Rexx Language Support

This release of Rexx Language Support is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands. The SMP/E dialogs may be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Options Subentry Values

The recommended values for some SMP/E CSI subentries are shown in Figure 12. Use of values lower than these may result in failures in the installation process. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. Refer to the SMP/E manuals for instructions on updating the global zone.

Figure 12. SMP/E Options Subentry Values		
SUB-ENTRY	**Value**	**Comment**
DSSPACE	200,200,600	3390 DASD Tracks
PEMAX	9999	The SMP/E default is larger than what can be epecified here

6.1.3 Unload the Sample JCL from the Product Tape

The following sample installation jobs are provided on the distribution tape to help you install Rexx Language Support:

Figure 13. Sample Installation Jobs			
Job Name	Job Type	Description	RELFILE
DSNTTJRC	RECEIVE	Sample RECEIVE job	IBM.JDB661H.F3
DSNTTJAP	APPLY	Sample APPLY job	IBM.JDB661H.F3
DSNTTJAC	ACCEPT	Sample ACCEPT job	IBM.JDB661H.F3

You may copy the jobs from the tape by submitting the job below. Add a job card and modify the parameters in boldface to uppercase values to meet your site's requirements before submitting.

```
//STEP1    EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//IN       DD DSN=IBM.JDB661H.F3,UNIT=tunit,VOL=SER=DB661H,
//         LABEL=(4,SL),DISP=(OLD,KEEP)
//OUT      DD DSNAME=jcl-library-name,
//         DISP=(NEW,CATLG,DELETE),
//         VOL=SER=dasdvol,UNIT=dunit,
//         DCB=*.STEP1.IN,SPACE=(TRK,(10,10,5))
//SYSUT3   DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN    DD *
   COPY INDD=IN,OUTDD=OUT
   SELECT MEMBER=(DSNTTJAC,DSNTTJAP,DSNTTJRC)
```

where **tunit** is the unit value matching the product tape or cartridge, **jcl-library-name** is the name of the data set where the sample jobs will reside, **dasdvol** is the volume serial of the DASD device where the data set will reside, and **dunit** is the DASD unit type of the volume.

You can also access the sample installation jobs by performing an SMP/E RECEIVE for FMID JDB661H and then copying the jobs from data set **hlq.IBM.JDB661H.F3** to a work data set for editing and submission.

6.1.4 Perform SMP/E RECEIVE

Edit and submit sample job DSNTTJRC to perform the SMP/E RECEIVE for Rexx Language Support. Consult the instructions in the sample job for more information.

NOTE: if you obtained Rexx Language Support as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the Rexx Language Support FMIDs as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

Expected Return Codes and Messages: This job should complete with return code 4 or less. NOTE: If you are running a lower level of OS/390 Version 2 Release 7, your job will end with a return code of 4, issuing a GIM50050W warning message.

6.1.5 Perform SMP/E APPLY

Edit and submit sample job DSNTTJAP to perform an SMP/E APPLY CHECK for Rexx Language Support. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the APPLY CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Once you have taken any actions indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

Note: The GROUPEXTEND operand indicates that SMP/E apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages: This job should complete with return code 4 or less. NOTE: If you are running a lower level of OS/390 Version 2 Release 7, your job will end with a return code of 4, issuing a GIM50050W warning message.

6.1.6 Perform SMP/E ACCEPT

Edit and submit sample job DSNTTJAC to perform an SMP/E ACCEPT CHECK for Rexx Language Support. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the ACCEPT CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Before using SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. This will cause entries produced from JCLIN to be saved in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

Once you have taken any actions indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

Note: The GROUPEXTEND operand indicates that SMP/E apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages: This job should complete with return code 4 or less. NOTE: If you are running a lower level of OS/390 Version 2 Release 7, your job will end with a return code of 4, issuing a GIM50050W warning message.

6.2 Activating Rexx Language Support

Rexx Language Support is fully operational once the SMP/E installation is complete and the execution of job DSNTIJRX is complete (to bind packages).

Expected Return Codes and Messages: This job should complete with return code 0.

Appendix A. Rexx Language Support Install Logic

A.1   SMP/E Modification Control Statements

The SMP/E Modification Control Statements (SMPMCS) for Rexx Language Support are contained in the SMPMCS file on the installation tape. The SMPMCS for each FMID in the product will be loaded to the SMPPTS data set, with a member name matching the FMID, when the FMID is SMP/E RECEIVEd. You may browse or print these members using TSO/E, ISPF, or IEBGENER (or IEBPTPCH).

A.2   SMP/E JCLIN

The JCLIN for Rexx Language Support is contained in the RELFILEs on the installation tape. These files will be loaded to disk by SMP/E when the product is SMP/E RECEIVEd. You may browse or print these files using TSO/E, ISPF, or IEBGENER (or IEBPTPCH).

The files containing JCLIN are:

   FMID JDB661H: DSN610.JDB661H.F1(JDB661H)

Note: The high-level qualifier is the qualifier specified as the DSPREFIX in the SMP/E OPTIONS.

Reader's Comments

Program Directory for IBM Database 2 Server for OS/390 Rexx Language Support Version 06. 01. 00.

You may use this form to comment about this document, its organization, or subject matter with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

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                             very        not
 satisfied  <====================>  dissatisfied  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

How did you order this product?

___   CBPDO
___   CustomPac
___   ServerPac
___   Independent
___   Other

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 MVS 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:

_____

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Please provide the following contact information:

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Thank you for your participation.

Please send the completed form to (or give to your IBM representative who will forward it to the IBM Database 2 Server for OS/390 Rexx Language Support Development group):

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