



Program Directory for DB2 Utilities Suite

Version 07 Release 01, Modification Level 00

Program Number 5697-E98

FMIDs JDB771K, JDB771M

for Use with
OS/390

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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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APAR numbers are provided in this document to assist in locating PTFs that may be required. Ongoing problem reporting may result in additional APARs being created. Therefore, the APAR lists in this document may not be complete. To obtain current service recommendations and to identify current product service requirements, always contact the IBM Customer Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

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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 DB2 Utilities Suite. This publication refers to DB2 Utilities Suite as DB2 Utilities Suite. 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 DB2 Utilities Suite.
- 3.0, "Program Support" on page 5 describes the IBM support available for DB2 Utilities Suite.
- 4.0, "Program and Service Level Information" on page 6 lists the APARs (program level) and PTFs (service level) incorporated into DB2 Utilities Suite.
- 5.0, "Installation Requirements and Considerations" on page 7 identifies the resources and considerations for installing and using DB2 Utilities Suite.
- 6.0, "Installation Instructions" on page 12 provides detailed installation instructions for DB2 Utilities Suite. It also describes the procedures for activating the functions of DB2 Utilities Suite, or refers to appropriate publications.

Before installing DB2 Utilities Suite, read 3.2, "Preventive Service Planning" on page 5. 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 DB2 Utilities Suite 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 DB2 Utilities Suite 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 DB2 Utilities Suite are included on the CBPDO tape.

1.1 DB2 Utilities Suite Description

DB2 Utilities Suite features include:

- Check Data - to check consistency among referentially related tables.
- Check Index - to check consistency between data and indexes.
- Check LOB - to check the consistency of LOB tablespaces.
- Copy - to make full or incremental backups of your tablespaces and indexes.

- CopyToCopy - to make additional backups of your tablespaces and indexes asynchronously.
- Mergecopy - to merge incremental or full and incremental backup copies.
- Modified Recovery - to remove obsolete backup information from DB2.
- Modified Statistics - to remove obsolete historical statistics.
- Rebuild Index - to create or rebuild your indexes.
- Recover - to restore your tablespaces and indexes from backup copies and apply log records since the backup.
- Load - to load your tables.
- Reorg Tablespace - to reorder your data, reclaim space, and restore free space.
- Reorg Index - to reorder your indexes.
- Runstats - to collect space and access path statistics on tablespaces and indexes.
- Stospace - to collect space used statistics for DB2 managed tablespaces and indexes.
- Unload - to unload your tables, tablespaces, and backup copies.

1.2 DB2 Utilities Suite FMIDs

DB2 Utilities Suite consists of the following FMIDs:

JDB771K
JDB771M

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for DB2 Utilities Suite is 5697-E98.

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 DB2 Utilities Suite. 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.

<i>Figure 1. Basic Material: Program Tape</i>				
Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
6250 tape	5801	1 of 2	DB2 Operational Utilities	DB771K
		2 of 2	DB2 Diagnostic and Recovery Utilities	DB771M
3480 cartridge	5802	1 of 2	DB2 Operational Utilities	DB771K
		2 of 2	DB2 Diagnostic and Recovery Utilities	DB771M
4mm cartridge	6230	1 of 2	DB2 Operational Utilities	DB771K
		2 of 2	DB2 Diagnostic and Recovery Utilities	DB771M

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for DB2 Utilities Suite.

2.3 Program Publications

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

2.3.1 Basic Program Publications

Figure 2 on page 4 identifies the basic unlicensed program publications for DB2 Utilities Suite. One copy of each of these publications is included when you order the basic materials for DB2 Utilities Suite. For additional copies, contact your IBM representative.

<i>Figure 2. Basic Material: Unlicensed Publications</i>	
Publication Title	Form Number
DB2 Utilities Suite License Information	GC27-1147

2.3.2 Optional Program Publications

No optional publications are provided for DB2 Utilities Suite.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for DB2 Utilities Suite.

2.5 Publications Useful During Installation

The publications listed in Figure 3 may be useful during the installation of DB2 Utilities Suite. To order copies, contact your IBM representative.

<i>Figure 3. Publications Useful During Installation</i>	
Publication Title	Form Number
OS/390 SMP/E User's Guide	SC28-1740
OS/390 SMP/E Commands	SC28-1805
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 DB2 Utilities Suite.

3.1 Program Services

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

3.2 Preventive Service Planning

Before installing DB2 Utilities Suite, you should review the current Preventive Service Planning (PSP) information. If you obtained DB2 Utilities Suite as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO tape.

If you obtained DB2 Utilities Suite 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 DB2 Utilities Suite are:

<i>Figure 4. PSP Upgrade and Subset ID</i>		
UPGRADE	SUBSET	Description
DB2710	JDB771K	DB2 Operational Utilities
DB2710	JDB771M	DB2 Diagnostic and Recovery Utilities

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 DB2 Utilities Suite.

<i>Figure 5. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
JDB771K	5740XYR00	DB2 Operational Utilities	71K
JDB771M	5740XYR00	DB2 Diagnostic and Recovery Utilities	71M

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of DB2 Utilities Suite. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated.

4.1 Program Level Information

No APARs have been incorporated into DB2 Utilities Suite.

4.2 Service Level Information

No PTFs against this release of DB2 Utilities Suite have been incorporated into the product tape.

5.0 Installation Requirements and Considerations

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

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
5668-949	System Modification Program/Extended (SMP/E) Release 1.8.1 with PTF UR51070

5.2 Target System Requirements

This section describes the environment of the target system required to install and use DB2 Utilities Suite.

DB2 Utilities Suite installs in the DBS (P115) SREL.

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
5675-DB2	DB2 for OS/390 Version 7

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.

DB2 Utilities Suite has no functional requisites.

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.

DB2 Utilities Suite 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.

DB2 Utilities Suite has no negative requisites.

5.2.3 DASD Storage Requirements

DB2 Utilities Suite libraries can reside on 3380 or 3390 DASD.

Figure 8 on page 9 lists the total space required for each type of library.

<i>Figure 8. Total DASD Space Required by DB2 Utilities Suite</i>	
Library Type	Total Space Required
Target	80 Tracks
Distribution	80 Tracks

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.

For more information on the names and sizes of the required data sets, please refer to 6.1.5, "Allocate SMP/E Target and Distribution Libraries" on page 14.

3. All target and distribution libraries listed have the following attributes:
 - The default name of the data set may be changed
 - The default block size of the data set may be changed

- The data set may be merged with another data set that has equivalent characteristics
- The data set may be either a PDS or a PDSE

4. All target libraries listed have the following attributes:

- The data set may be SMS managed
- It is not required for the data set to be SMS managed
- The data set may be in the LPA
- It is not required for the data set to be in the LPA
- The data set may be in the LNKLIST
- It is not required for the data set to be APF authorized
- It is not required for the data set to reside on the IPL volume
- The values in the "Member Type" column are not necessarily the actual SMP/E element types identified in the SMPMCS.

The following figures describe the target and distribution libraries required to install DB2 Utilities Suite. The storage requirements of DB2 Utilities Suite must be added to the storage required by other programs having data in the same library.

Note: The data in these tables should be used when determining which libraries can be merged into common data sets. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

Figure 9. Storage Requirements for DB2 Utilities Suite Target Libraries

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
SDSNBASE	SAMPLE	any	E	PDS	FB	80	3	5
SDSNLOAD	LMOD	any	E	PDS	U	0	32	10

Figure 10. Storage Requirements for DB2 Utilities Suite Distribution Libraries

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
ADSNBASE	E	PDS	FB	80	3	5
ADSNLOAD	E	PDS	U	0	32	10

5.3 FMIDs Deleted

Installing DB2 Utilities Suite may result in the deletion of other FMIDs. To see what FMIDs will be deleted, examine the ++VER statement in the product's SMPMCS.

If you do not wish to delete these FMIDs at this time, you must install DB2 Utilities Suite 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

DB2 Utilities Suite 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 DB2 Utilities Suite.

Please note the following:

- If you want to install DB2 Utilities Suite into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMP/CSI 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 DB2 Utilities Suite

6.1.1 SMP/E Considerations for Installing DB2 Utilities Suite

This release of DB2 Utilities Suite 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 11. 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.

<i>Figure 11. SMP/E Options Subentry Values</i>		
SUB-ENTRY	Value	Comment
DSSPACE	200,200,500	3390 DASD Tracks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

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 DB2 Utilities Suite:

Figure 12. Sample Installation Jobs - DB2 Operational Utilities

Job Name	Job Type	Description	RELFILE
DSNRECVK	RECEIVE	Sample RECEIVE job	IBM.JDB771K.F2
DSNRECVS	RECEIVE	Sample RECEIVE job	IBM.JDB771K.F2
DSNAPPLS	APPLY	Sample APPLY job	IBM.JDB771K.F2
DSNACCPS	ACCEPT	Sample ACCEPT job	IBM.JDB771K.F2

You may copy the sample jobs from DB2 Operational Utilities Tape by submitting the job below. Add a job card and change the lower parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//IN DD DSN=IBM.JDB771K.F2,UNIT=tunit,VOL=SER=DB771K,
// LABEL=(3,SL),DISP=(OLD,KEEP)
//OUT DD DSN=jcl-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// DCB=*.STEP1.IN,SPACE=(TRK,(primary,secondary,dir))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=IN,OUTDD=OUT
SELECT MEMBER=(DSNRECVK,DSNRECVS,DSNAPPLS,DSNACCPS)
/*
```

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, and **dasdvol** is the volume serial of the DASD device where the data set will reside.

You can also access the sample installation jobs by performing an SMP/E RECEIVE for FMID JDB771K, and then copying the jobs from data set **hlq.IBM.JDB771K.F2** to a work data set for editing and submission. Note: "hlq" is the high-level qualifier specified as the DSPREFIX value in the SMPTLIB DDDEF or the OPTIONS entry of the global zone.

6.1.4 Perform SMP/E RECEIVE

- Edit and submit sample job DSNRECVK from DB2 Operational Utilities Tape to perform the SMP/E RECEIVE for DB2 Utilities Suite. Consult the instructions in the sample job for more information.
- Edit and submit sample job DSNRECVS from DB2 Operational Utilities Tape to perform the SMP/E RECEIVE for DB2 Utilities Suite. Consult the instructions in the sample job for more information.

NOTE: If you obtained DB2 Utilities Suite as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the DB2 Utilities Suite 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: You will get a condition code of 0 if the jobs run correctly.

6.1.5 Allocate SMP/E Target and Distribution Libraries

All data sets used by DB2 Utilities Suite are allocated by other products, so no new allocations are required.

6.1.6 Create DDDEF Entries

All DDDEFs used by DB2 Utilities Suite are created by other products, so no new DDDEFs are required.

6.1.7 Perform SMP/E APPLY

Edit and submit sample job DSNAPPLS from DB2 Operational Utilities Tape to perform an SMP/E APPLY CHECK for DB2 Utilities Suite. Consult 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 jobs 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 from APPLY CHECK: You will get a condition code of 0 if the jobs run correctly.

Expected Return Codes and Messages from APPLY: You will get a condition code of 0 if the jobs run correctly.

6.1.8 Perform SMP/E ACCEPT

Edit and submit sample job DSNACCPS from DB2 Operational Utilities Tape to perform an SMP/E ACCEPT CHECK for DB2 Utilities Suite. 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 jobs again to perform the ACCEPT.

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

Expected Return Codes and Messages from ACCEPT CHECK: You will get a condition code of 0 if the jobs run correctly.

Expected Return Codes and Messages from ACCEPT: You will get a condition code of 0 if the jobs run correctly.

If PTFs containing replacement modules are being ACCEPTed, SMP/E ACCEPT processing will linkedit/bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder may issue messages documenting unresolved external references, resulting in a return code of 4 from the ACCEPT step. These messages can be ignored, because the distribution libraries are not executable and the unresolved external references will not affect the executable system libraries.

6.2 Activating DB2 Utilities Suite

DB2 Utilities Suite is fully operational once the SMP/E installation is complete. No further customization is required to activate this function.

Reader's Comments

Program Directory for DB2 Utilities Suite

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 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

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:

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 Utilities Suite Development group):

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PO Box 49023
San Jose, CA 95161
Attn: DB2 Test and Performance

FAX Number: (408) 463-2614

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