



**Program Directory for
IBM DB2 Fast Copy Solution Pack for z/OS**

V01.02.00

Program Number 5697-DFM

for Use with
z/OS

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GI10-8934-01

Note

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 29.

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1.0 Introduction

This program directory is intended for system programmers who are responsible for program installation and maintenance. It contains information about the material and procedures associated with the installation of IBM DB2 Fast Copy Solution Pack for z/OS. This publication refers to IBM DB2 Fast Copy Solution Pack for z/OS as DB2 Fast Copy Solution Pack.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic program materials and documentation for DB2 Fast Copy Solution Pack.
- 3.0, “Program Support” on page 7 describes the IBM support available for DB2 Fast Copy Solution Pack.
- 4.0, “Program and Service Level Information” on page 9 lists the APARs (program level) and PTFs (service level) that have been incorporated into DB2 Fast Copy Solution Pack.
- 5.0, “Installation Requirements and Considerations” on page 11 identifies the resources and considerations that are required for installing and using DB2 Fast Copy Solution Pack.
- 6.0, “Installation Instructions” on page 21 provides detailed installation instructions for DB2 Fast Copy Solution Pack. It also describes the procedures for activating the functions of DB2 Fast Copy Solution Pack, or refers to appropriate publications.

Before installing DB2 Fast Copy Solution Pack, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that are supplied with this program in softcopy format and this program directory; then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 7 tells you how to find any updates to the information and procedures in this program directory.

DB2 Fast Copy Solution Pack is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The program directory that is provided in softcopy format on the CBPDO tape is identical to the hardcopy format if one was included with your order. All service and HOLDDATA for DB2 Fast Copy Solution Pack are included on the CBPDO tape.

Do not use this program directory if you install DB2 Fast Copy Solution Pack with a SystemPac or ServerPac. When you use one of those offerings, use the jobs and documentation supplied with the offering. The offering will point you to specific sections of this program directory as needed.

1.1 DB2 Fast Copy Solution Pack Description

IBM DB2 Fast Copy Solution Pack for z/OS, V1.2 (5697-DFM) provides new releases of DB2 Cloning Tool for z/OS, V3.2 (5655-N15) and DB2 Recovery Expert for z/OS, V3.2 (5655-W78).

DB2 Cloning Tool for z/OS and DB2 Recovery Expert for z/OS are storage-aware data management products that use automation to coordinate database system operations with storage-based fast-replication facilities which can simplify backup, recovery and cloning strategies.

Refer to the product specific sections of DB2 Cloning Tool for z/OS, V3.2 and DB2 Recovery Expert for z/OS, V3.2 for a description of the many enhancements delivered in the new releases.

1.2 DB2 Fast Copy Solution Pack FMIDs

DB2 Fast Copy Solution Pack consists of the following FMIDs:

- HBBX120
- H30R320
- H30RKN0
- HCKZ320

2.0 Program Materials

An IBM program is identified by a program number. The program number for DB2 Fast Copy Solution Pack is 5697-DFM.

Basic Machine-Readable Materials are materials that are supplied under the base license and are required for the use of the product.

The program announcement material describes the features supported by DB2 Fast Copy Solution Pack. 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 physical media or downloadable files. This program is in SMP/E RELFILE format and is installed by using SMP/E. See 6.0, "Installation Instructions" on page 21 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for DB2 Fast Copy Solution Pack in the *CBPDO Memo To Users Extension*.

Figure 1 describes the program file content for DB2 Fast Copy Solution Pack. You can refer to the *CBPDO Memo To Users Extension* to see where the files reside on the tape.

Notes:

1. The data set attributes in this table must be used in the JCL of jobs that read the data sets. However, because the data sets are in IEBCOPY unloaded format, their actual attributes might be different.
2. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

Figure 1. Program File Content for DB2 Fast Copy Solution Pack

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.HBBX120.F1	PDS	FB	80	8800
IBM.HBBX120.F2	PDS	FB	80	8800

Figure 2. Program File Content for DB2 Recovery Expert

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.H30R320.F1	PDS	FB	80	8800
IBM.H30R320.F2	PDSE	U	0	6144
IBM.H30R320.F3	PDS	FB	80	8800
IBM.H30R320.F4	PDS	FB	80	8800
IBM.H30R320.F5	PDS	FB	80	8800
IBM.H30R320.F6	PDS	FB	80	8800
IBM.H30R320.F7	PDS	FB	80	8800
IBM.H30R320.F8	PDS	VB	133	6233
IBM.H30R320.F9	PDS	FB	80	8800
IBM.H30R320.F10	PDS	FB	80	8800
IBM.H30R320.F11	PDS	FB	80	8800
IBM.H30R320.F12	PDS	FB	80	8800
IBM.H30R320.F13	PDS	FB	80	8800

Figure 3. Program File Content for DB2 Recovery Expert Identifier

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.H30RKN0.F1	PDS	FB	80	8800
IBM.H30RKN0.F2	PDSE	U	0	6144
IBM.H30RKN0.F3	PDS	FB	80	8800

Figure 4. Program File Content for DB2 Cloning Tool

Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	6400
IBM.HCKZ320.F1	PDS	FB	80	8800
IBM.HCKZ320.F2	PDS	FB	80	8800
IBM.HCKZ320.F3	PDS	FB	80	8800
IBM.HCKZ320.F4	PDS	FB	80	8800
IBM.HCKZ320.F5	PDS	FB	80	8800
IBM.HCKZ320.F6	PDS	FB	80	8800
IBM.HCKZ320.F7	PDS	FB	80	8800
IBM.HCKZ320.F8	PDSE	U	0	6144
IBM.HCKZ320.F9	PDS	FB	80	8800
IBM.HCKZ320.F10	PDS	FB	80	8800
IBM.HCKZ320.F11	PDS	FB	80	8800
IBM.HCKZ320.F12	PDS	FB	80	8800

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for DB2 Fast Copy Solution Pack.

2.3 Program Publications

The following sections identify the basic publications for DB2 Fast Copy Solution Pack.

Figure 5 identifies the basic unlicensed publications for DB2 Fast Copy Solution Pack. Those that are in softcopy format publications can be obtained from the IBM Publications Center website at: <http://www.ibm.com/shop/publications/order/>

Figure 5 (Page 1 of 2). Basic Material: Unlicensed

Publication Title	Form Number	Media Format
IBM DB2 Fast Copy Solution Pack for z/OS License Information	GC19-3786	http://www.ibm.com/software/sla/sladb.nsf

Figure 5 (Page 2 of 2). Basic Material: Unlicensed

Publication Title	Form Number	Media Format
IBM DB2 Recovery Expert for z/OS User's Guide	SC19-4569	http://www.ibm.com/support/docview.wss?uid=swg27020942
IBM DB2 Cloning Tool for z/OS User's Guide	SC19-3493	http://www.ibm.com/support/docview.wss?uid=swg27020942

2.3.1 Optional Program Publications

No optional publications are provided for DB2 Fast Copy Solution Pack.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for DB2 Fast Copy Solution Pack.

2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 6 during the installation of DB2 Fast Copy Solution Pack.

Figure 6. Publications Useful During Installation

Publication Title	Form Number	Media Format
<i>IBM SMP/E for z/OS User's Guide</i>	SA23-2277	http://www.ibm.com/shop/publications/order/
<i>IBM SMP/E for z/OS Commands</i>	SA23-2275	http://www.ibm.com/shop/publications/order/
<i>IBM SMP/E for z/OS Reference</i>	SA23-2276	http://www.ibm.com/shop/publications/order/
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA32-0883	http://www.ibm.com/shop/publications/order/

3.0 Program Support

This section describes the IBM support available for DB2 Fast Copy Solution Pack.

3.1 Program Services

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

3.2 Preventive Service Planning

Before you install DB2 Fast Copy Solution Pack, make sure that you have reviewed the current Preventive Service Planning (PSP) information. Review the PSP Bucket for General Information, Installation Documentation, and the Cross Product Dependencies sections. For the Recommended Service section, instead of reviewing the PSP Bucket, it is recommended you use the IBM.ProductInstall-RequiredService fix category in SMP/E to ensure you have all the recommended service installed. Use the **FIXCAT(IBM.ProductInstall-RequiredService)** operand on the **APPLY CHECK command**. See 6.1.10, “Perform SMP/E APPLY” on page 25 for a sample APPLY command.

If you obtained DB2 Fast Copy Solution Pack as part of a CBPDO, HOLDDATA is included.

If the CBPDO for DB2 Fast Copy Solution Pack is older than two weeks by the time you install the product materials, you can obtain the latest PSP Bucket information by going to the following website:

<http://www14.software.ibm.com/webapp/set2/psearch/search?domain=psp>

You can also use S/390 SoftwareXcel or contact the IBM Support Center to obtain the latest PSP Bucket information.

For program support, access the Software Support Website at <http://www-01.ibm.com/software/support/>.

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 Fast Copy Solution Pack are included in Figure 7.

Figure 7. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
5697DFM	HBBX120	DB2 Fast Copy Solution Pack
5697H74	H30R320	DB2 Recovery Expert
5697H74	H30RKN0	DB2 Recovery Expert Identifier
5655N15	HCKZ320	DB2 Cloning Tool

3.3 Statement of Support Procedures

Report any problems which you feel might be an error in the product materials to your IBM Support Center. You may be asked to gather and submit additional diagnostics to assist the IBM Support Center in their analysis.

Figure 8 on page 8 identifies the component IDs (COMPID) for DB2 Fast Copy Solution Pack.

<i>Figure 8. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HBBX120	5697DFM00	DB2 Fast Copy Solution Pack	120
H30R320	5697H7400	DB2 Recovery Expert	320
H30RKN0	5697H7400	DB2 Recovery Expert Identifier	KN0
HCKZ320	5655N1000	DB2 Cloning Tool	320

4.0 Program and Service Level Information

This section identifies the program and relevant service levels of DB2 Fast Copy Solution Pack. The program level refers to the APAR fixes that have been incorporated into the program. The service level refers to the PTFs that have been incorporated into the program.

4.1 Program Level Information

The following APAR fixes against previous releases of DB2 Fast Copy Solution Pack have been incorporated into this release. They are listed by FMID.

- FMID HCKZ310

PI04844	PI28765	PM58081	PM70795	PM80772
PI06815	PI30448	PM58218	PM70904	PM81186
PI07687	PI30614	PM61003	PM70977	PM81581
PI08497	PI31976	PM61399	PM72156	PM81938
PI08649	PI32308	PM61402	PM72528	PM82722
PI09489	PI32842	PM61895	PM72853	PM83302
PI11395	PI33007	PM62202	PM72864	PM84516
PI11424	PI33489	PM62206	PM72866	PM85142
PI13871	PI34010	PM62208	PM73360	PM85930
PI14867	PI35614	PM62211	PM73362	PM85932
PI15215	PI37705	PM64623	PM73364	PM86668
PI16177	PI37802	PM64977	PM73372	PM86676
PI16263	PI39005	PM64980	PM74072	PM87047
PI16361	PM51055	PM64983	PM74161	PM87052
PI18970	PM51058	PM64985	PM74369	PM87056
PI21891	PM51060	PM64987	PM75103	PM88158
PI22371	PM51063	PM65962	PM75113	PM89128
PI23466	PM51064	PM66109	PM75114	PM90104
PI23630	PM53613	PM66348	PM76594	PM90404
PI26330	PM54998	PM66438	PM76597	PM94295
PI26938	PM55254	PM66444	PM76610	PM96110
PI27011	PM56812	PM67796	PM76853	PM96388
PI28650	PM57865	PM67800	PM76860	PM97146
PI28687	PM57866	PM68120	PM78305	PM97209
PI28733	PM58065	PM68124	PM78306	PM97563
PI28744	PM58076	PM68126	PM78313	PM98340
PI28759	PM58080	PM68129	PM80594	

- FMID H30R310

PI05346	PI18533	PI31072	PM81298	PM90694
PI05750	PI18808	PI31159	PM81577	PM93247
PI05751	PI19637	PI31993	PM81942	PM93322
PI06530	PI19653	PI32515	PM81943	PM93376
PI08115	PI22523	PI34181	PM81944	PM93574
PI08882	PI22847	PI34688	PM81946	PM93814
PI10849	PI22851	PI35116	PM82261	PM94786
PI12630	PI23237	PI35622	PM83881	PM96397
PI12850	PI23393	PI36980	PM84047	PM97466
PI13151	PI24087	PM66063	PM84139	PM97468
PI13328	PI24098	PM67515	PM86735	PM97470
PI14194	PI25694	PM70082	PM86842	PM97934
PI14195	PI26230	PM70776	PM86845	PM98254
PI14197	PI26431	PM70976	PM87431	PM98592
PI14199	PI28431	PM71369	PM87620	PM98604
PI15099	PI28834	PM74897	PM87667	PM98738
PI17658	PI28839	PM75398	PM87737	PM98918
PI18245	PI28934	PM75735	PM88430	PM98919
PI18329	PI28936	PM77131	PM89364	PM98921
PI18363	PI28941	PM79066	PM90561	PM98922
PI18366	PI29072	PM79537	PM90684	
PI18367	PI29868	PM79794	PM90690	

4.2 Service Level Information

No PTFs against this release of DB2 Fast Copy Solution Pack have been incorporated into the product package.

Frequently check the DB2 Fast Copy Solution Pack PSP Bucket for HIPER and SPECIAL attention PTFs against all FMIDs that you must install. You can also receive the latest HOLDDATA, then add the **FIXCAT(IBM.PRODUCTINSTALL-REQUIRESERVICE)** operand on your APPLY CHECK command. This will allow you to review the recommended and critical service that should be installed with your FMIDs.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating DB2 Fast Copy Solution Pack. The following terminology is used:

- *Driving system*: the system on which SMP/E is executed to install the program.
The program might have specific operating system or product level requirements for using processes, such as binder or assembly utilities during the installation.
- *Target system*: the system on which the program is configured and run.
The program might have specific product level requirements, such as needing access to the library of another product for link-edits. These requirements, either mandatory or optional, might directly affect the element during the installation or in its basic or enhanced operation.

In many cases, you can use a system as both a driving system and a target system. However, you can make a separate IPL-able clone of the running system to use as a target system. The clone must 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.

Use separate driving and target systems in the following situations:

- When you install a new level of a product that is already installed, the new level of the product will replace the old one. By installing the new level onto a separate target system, you can test the new level and keep the old one in production at the same time.
- When you install a product that shares libraries or load modules with other products, the installation can disrupt the other products. By installing the product onto a separate target system, you can 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 Fast Copy Solution Pack.

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 9. Driving System Software Requirements

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
Any one of the following:				
5694-A01	z/OS	V01.13.00	N/A	No
5650-ZOS	z/OS	V02.01.00	N/A	No

Note: SMP/E is a requirement for Installation and is an element of z/OS but can also be ordered as a separate product, 5655-G44, minimally V03.06.00.

Note: Installation might require migration to new z/OS releases to be service supported. See http://www-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.html.

5.2 Target System Requirements

This section describes the environment of the target system required to install and use DB2 Fast Copy Solution Pack.

DB2 Fast Copy Solution Pack 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 Installation Requisites: Installation requisites identify products that are required and *must* be present on the system or products that are not required but *should* be present on the system for the successful installation of this product.

Mandatory installation requisites identify products that are required on the system for the successful installation of this product.

DB2 Fast Copy Solution Pack has no mandatory installation requisites.

Conditional installation requisites identify products that are *not* required for successful installation of this product but can resolve such things as certain warning messages at installation time.

DB2 Fast Copy Solution Pack has no conditional installation requisites.

5.2.2.2 Operational Requisites: Operational requisites are products that are required and *must* be present on the system or products that are not required but *should* be present on the system for this product to operate all or part of its functions.

Mandatory operational requisites identify products that are required for this product to operate its basic functions.

Figure 10. Target System Mandatory Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level
5655-V93	IBM Tools Base For z/OS V01.04.00* or higher - HTCZ110, (IBM Tools Customizer for z/OS)
Any one of the following:	
5605-DB2	DB2 for z/OS V10.01.00
5697-P31	DB2 Value Unit Edition for z/OS V10.01.00
5615-DB2	DB2 for z/OS V11.01.00
5697-P43	DB2 Value Unit Edition for z/OS V11.01.00

Note: *IBM Tools Base for z/OS, (5655-V93) is a mandatory operational requisite for DB2 Recovery Expert and DB2 Cloning Tool. IBM Tools Base for z/OS is a no-charge product that must be separately ordered. Tools Base contains IBM Tools Customizer for z/OS, FMID HTCZ110, which must be installed in order to customize DB2 Recovery Expert and DB2 Cloning Tool. Refer to the IBM Tools Base for z/OS, Program Directory (GI10-8819) for installation instructions.

Conditional operational requisites identify products that are *not* required for this product to operate its basic functions but are required at run time for this product to operate specific functions.

Figure 11 (Page 1 of 2). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
n/a	EMC Symmetrix 6 or later running with microcode 5x67 or later	Required for BVC and SNAP backups
n/a	Microcode 5x67 with patch 14882, 5x68 with patch 18954, or 5x69, or later, for use of Enginuity Consistency Assist (ECA).	Required for BVC and SNAP backups
n/a	The EMC SNAP library must be level 5.5, or later, to use ECA with SNA	Required for BVC and SNAP backups
Any one of the following:		
5694-A01	z/OS V01.13.00 or higher, DFSMSdsm, DFSMSdss and FlashCopy V01.00.00	Use of FlashCopy system level backups requires FlashCopy 1
5650-ZOS	z/OS V02.01.00 or higher, DFSMSdsm, DFSMSdss and FlashCopy V01.00.00	Use of FlashCopy system level backups requires FlashCopy 1

Figure 11 (Page 2 of 2). Target System Conditional Operational Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
Any one of the following:		
5694-A01	z/OS V01.13.00 or higher, DFSMSShsm, DFSMSdss and FlashCopy V02.00.00	Required for object level recovery using system level backups (DB2 System Backup and FlashCopy Backups). Object Level Recovery using FlashCopy system level backups require FlashCopy 2.
5650-ZOS	z/OS V02.01.00 or higher, DFSMSShsm, DFSMSdss and FlashCopy V02.00.00	Required for object level recovery using system level backups (DB2 System Backup and FlashCopy Backups). Object Level Recovery using FlashCopy system level backups require FlashCopy 2.
Any one of the following:		
5694-A01	z/OS V01.13.00 or higher, DFSMSdss Encryption Facility	DFSMSdss requirement to perform encryption during offloads
5650-ZOS	z/OS V02.01.00 or higher, DFSMSdss Encryption Facility	DFSMSdss requirement to perform encryption during offloads
Any one of the following:		
5694-A01	z/OS V01.13.00 or higher, IBM Cryptographic Services Facility (ICSF)	DFSMSdss requirement to perform encryption during offloads
5650-ZOS	z/OS V02.01.00 or higher, IBM Cryptographic Services Facility (ICSF)	DFSMSdss requirement to perform encryption during offloads
Any one of the following product combinations:		
5605-DB2	DB2 for z/OS V10.01.00	
5655-V41	IBM DB2 Utilities Suite for z/OS V10.01.00	
or		
5697-P31	DB2 Value Unit Edition for z/OS V10.01.00	
5655-V41	IBM DB2 Utilities Suite for z/OS V10.01.00	
or		
5615-DB2	DB2 for z/OS V11.01.00	
5655-W87	IBM DB2 Utilities Suite for z/OS V11.01.00	
or		
5697-P43	DB2 Value Unit Edition for z/OS V11.01.00	
5655-W87	IBM DB2 Utilities Suite for z/OS V11.01.00	

5.2.2.3 Toleration/Coexistence Requisites: Toleration/coexistence requisites identify products that must be present on sharing systems. 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 environment at different time intervals.

DB2 Fast Copy Solution Pack has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites: Negative requisites identify products that must *not* be installed on the same system as this product.

Figure 12. Target System Negative Requisites

Program Number	Product Name and Minimum VRM/Service Level
5697-H74	IBM DB2 Recovery Expert for z/OS V02, SAP Identifier (H30RKY0)
5697-W78	IBM DB2 Recovery Expert for z/OS V03, SAP Identifier (H30RKY0)

5.2.3 DASD Storage Requirements

DB2 Fast Copy Solution Pack libraries can reside on all supported DASD types.

Figure 13 lists the total space that is required for each type of library.

Figure 13. Total DASD Space Required by DB2 Fast Copy Solution Pack

Library Type	Total Space Required in 3390 Trks
Target	7073
Distribution	8699

Notes:

- For non-RECFM U data sets, IBM recommends using system-determined block sizes for efficient DASD utilization. For RECFM U data sets, IBM recommends using a block size of 32760, which is most efficient from the performance and DASD utilization perspective.
- Abbreviations used for data set types are shown as follows.
 - U** Unique data set, allocated by this product and used by only this product. This table provides all the required information to determine the correct storage for this data set. You do not need to refer to other tables or program directories for the data set size.
 - S** Shared data set, allocated by this product and used by this product and other products. To determine the correct storage needed for this data set, add the storage size given in this table to those given in 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 other products. This data set is *not* allocated by this product. To determine the correct storage for this data set, add the storage size given in this table to those given in 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.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old release and reclaim the space that was used by the old release and any service that had been installed. You can determine whether 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 about the names and sizes of the required data sets, see 6.1.8, "Allocate SMP/E Target and Distribution Libraries" on page 25.

3. All target and distribution libraries listed have the following attributes:
 - The default name of the data set can be changed.
 - The default block size of the data set can be changed.
 - The data set can be merged with another data set that has equivalent characteristics.
 - The data set can be either a PDS or a PDSE, except for SARYLOAD, SCKZLOAD, AARYLOAD, and ACKZMOD, which must be PDSEs.
4. All target libraries listed have the following attributes:
 - These data sets can be SMS-managed, but they are not required to be SMS-managed.
 - These data sets are not required to reside on the IPL volume.
 - The values in the "Member Type" column are not necessarily the actual SMP/E element types that are identified in the SMPMCS.
5. All target libraries that are listed and contain load modules have the following attributes:
 - These data sets can be in the LPA, but they are not required to be in the LPA.
 - These data sets can be in the LNKLST.
 - These data sets are not required to be APF-authorized.
 - DB2 Fast Copy Solution Pack requires that the SMPLTS data set must be a PDSE. If your existing SMPLTS is a PDS, you will need to allocate a new PDSE and copy your existing SMPLTS into it and then change the SMPLTS DDDEF entry to indicate the new PDSE data set.

The following figures describe the target and distribution libraries required to install DB2 Fast Copy Solution Pack. The storage requirements of DB2 Fast Copy Solution Pack must be added to the storage required by other programs that have data in the same library.

Note: Use the data in these tables to determine 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 14. Storage Requirements for DB2 Fast Copy Solution Pack 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
SBBXBASE	SAMP	Any	U	PDS	FB	80	6	5
SBBXDENU	DATA	Any	U	PDS	FB	80	2	5

Figure 15. Storage Requirements for DB2 Recovery Expert 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
SARYBASE	SAMP	Any	U	PDS	FB	80	6	2
SARYDBRM	MAC	Any	U	PDS	FB	80	143	40
SARYDENU	SAMP	Any	U	PDS	FB	80	126	10
SARYEXP	DATA	Any	U	PDS	FB	80	59	10
SARYGUIW	DATA	Any	U	PDS	FB	80	63	3
SARYLOAD	MOD	Any	U	PDSE	U	0	4751	N/A
SARYMENU	MSG	Any	U	PDS	FB	80	34	20
SARYNOTC	DATA	Any	U	PDS	VB	133	11	2
SARYPENU	PNL	Any	U	PDS	FB	80	254	150
SARYSAMP	SAMP	Any	U	PDS	FB	80	142	8
SARYSLIB	SKL	Any	U	PDS	FB	80	51	15
SARYTENU	TBL	Any	U	PDS	FB	80	6	4

Figure 16 (Page 1 of 2). Storage Requirements for DB2 Cloning Tool 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
SCKZBASE	SAMPLE	Any	U	PDS	FB	80	6	2
SCKZDBRM	MACRO	Any	U	PDS	FB	80	76	25
SCKZDENU	DATA5	Any	U	PDS	FB	80	26	5
SCKZEXP	PARM	Any	U	PDS	FB	80	6	5

Figure 16 (Page 2 of 2). Storage Requirements for DB2 Cloning Tool 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
SCKZJCL	SAMPLE	Any	U	PDS	FB	80	34	15
SCKZLOAD	LMOD	Any	U	PDSE	U	0	1376	n/a
SCKZMENU	PARM	Any	U	PDS	FB	80	10	5
SCKZPARM	PARM	Any	U	PDS	FB	80	11	2
SCKZPENU	PARM	Any	U	PDS	FB	80	118	50
SCKZSLIB	PARM	Any	U	PDS	FB	80	4	5
SCKZTENU	PARM	Any	U	PDS	FB	80	3	5

Figure 17. Storage Requirements for DB2 Fast Copy Solution Pack 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
ABBXBASE	U	PDS	FB	80	6	5
ABBXDENU	U	PDS	FB	80	2	5

Figure 18 (Page 1 of 2). Storage Requirements for DB2 Recovery Expert 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
AARYBASE	U	PDS	FB	80	6	2
AARYDBRM	U	PDS	FB	80	143	40
AARYDENU	U	PDS	FB	80	126	10
AARYEXP	U	PDS	FB	80	59	10
AARYGUIW	U	PDS	FB	80	63	3
AARYLOAD	U	PDSE	U	0	5876	N/A
AARYMENU	U	PDS	FB	80	34	20
AARYNOTC	U	PDS	VB	133	11	2
AARYPENU	U	PDS	FB	80	254	150

Figure 18 (Page 2 of 2). Storage Requirements for DB2 Recovery Expert 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
AARYSAMP	U	PDS	FB	80	142	8
AARYSLIB	U	PDS	FB	80	51	15
AARYTENU	U	PDS	FB	80	6	4

Figure 19. Storage Requirements for DB2 Cloning Tool 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
ACKZBASE	U	PDS	FB	80	6	2
ACKZDBRM	U	PDS	FB	80	76	25
ACKZDENU	U	PDS	FB	80	26	5
ACKZEXP	U	PDS	FB	80	6	5
ACKZJCL	U	PDS	FB	80	34	15
ACKZMENU	U	PDS	FB	80	10	5
ACKZMOD	U	PDSE	U	0	1626	n/a
ACKZPARM	U	PDS	FB	80	11	2
ACKZPENU	U	PDS	FB	80	118	50
ACKZSLIB	U	PDS	FB	80	4	5
ACKZTENU	U	PDS	FB	80	3	5

5.3 FMIDs Deleted

Installing DB2 Fast Copy Solution Pack might result in the deletion of other FMIDs. To see which FMIDs will be deleted, examine the ++VER statement in the SMPMCS of the product.

If you do not want to delete these FMIDs at this time, install DB2 Fast Copy Solution Pack into separate SMP/E target and distribution zones.

Note: These FMIDs are not automatically deleted from the Global Zone. If you want to delete these FMIDs from the Global Zone, use the SMP/E REJECT NOFMID DELETEFMID command. See the SMP/E Commands book for details.

5.4 Special Considerations

At product customization time, users will use Tools Customizer to choose which components they wish to configure.

Note

After SMP/E install, the user should apply the Post GA APARs for DB2 Recovery Expert , DB2 Cloning Tool and DB2 Tools Customizer.

PDSE Considerations:

DB2 Fast Copy Solution Pack uses the "partitioned data set extended" or PDSE format for the SARYLOAD, and SCKZLOAD target libraries. There are some operational differences between PDS and PDSE data sets. The PDS format may be shared by more than one z/OS system and no special precautions are necessary. However the PDSE format may only be shared by z/OS systems which are part of a sysplex or which are connected using Global Resource Serialization (are in a GRS complex). If z/OS systems share use of a PDSE data set outside of a sysplex or GRS environment, you may experience severe problems when the data set is updated. This is due to the fact that PDSE directory information is cached in storage, and when the data set is updated from one system the other system(s) have no knowledge of the update, and their cached directory information will be incorrect.

You must take care not to share the SARYLOAD, and SCKZLOAD data sets between z/OS systems unless they are in a sysplex or are connected in a GRS complex. If you need to share the content of the SARYLOAD, and SCKZLOAD data sets, a separate copy must be created for each z/OS 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 Fast Copy Solution Pack.

Please note the following points:

- If you want to install DB2 Fast Copy Solution Pack 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.
- You can use the sample jobs that are provided to perform part or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries that are required for SMP/E execution have been defined in appropriate zones.
- You can use the SMP/E dialogs instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing DB2 Fast Copy Solution Pack

6.1.1 SMP/E Considerations for Installing DB2 Fast Copy Solution Pack

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of DB2 Fast Copy Solution Pack.

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 20. Using values lower than the recommended values can result in failures in the installation. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. See the SMP/E manuals for instructions on updating the global zone.

Subentry	Value	Comment
DSSPACE	(500,500,500)	3390 DASD tracks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

6.1.3 SMP/E CALLLIBS Processing

DB2 Fast Copy Solution Pack uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When DB2 Fast Copy Solution Pack is installed, ensure that DDDEFs exist for the following libraries:

- CSSLIB
- SCCNOBJ
- SCEEBND2
- SCEECPP
- SCEELIB
- SCEELKED
- SCEELKEX
- SCEEOBJ
- SCLBSID
- SCSFMOD0
- SDSNLOAD
- SIEASID
- SISPLOAD

Note: CALLLIBS uses the previous DDDEFs only to resolve the link-edit for DB2 Fast Copy Solution Pack. These data sets are not updated during the installation of DB2 Fast Copy Solution Pack.

6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install DB2 Fast Copy Solution Pack:

Figure 21 (Page 1 of 2). Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
BBXALA	SMP/E	Sample job to allocate and initialize a new SMP/E CSI data set (Optional)	IBM.HBBX120.F1
BBXALB	SMP/E	Sample job to allocate SMP/E data sets (Optional)	IBM.HBBX120.F1
BBXREC1	RECEIVE	Sample RECEIVE job for DB2 Fast Copy Solution Pack	IBM.HBBX120.F1
BBXREC2	RECEIVE	Sample RECEIVE job for DB2 Recovery Expert	IBM.HBBX120.F1
BBXREC3	RECEIVE	Sample RECEIVE job for DB2 Recovery Expert Identifier	IBM.HBBX120.F1
BBXREC4	RECEIVE	Sample RECEIVE job for DB2 Cloning Tool	IBM.HBBX120.F1
BBXALLOC	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HBBX120.F1

Figure 21 (Page 2 of 2). Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
BBXDDDEF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HBBX120.F1
BBXAPPLY	APPLY	Sample APPLY job	IBM.HBBX120.F1
BBXACCEP	ACCEPT	Sample ACCEPT job	IBM.HBBX120.F1

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.7, “Perform SMP/E RECEIVE” on page 24) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 21 on page 22 to find the appropriate relfile data set.

You can also copy the sample installation jobs from the tape or product files by submitting the following job. Depending on your distribution medium, use either the //TAPEIN or the //FILEIN DD statement and comment out or delete the other statement. Before you submit the job, add a job card and change the lowercase parameters to uppercase values to meet the requirements of your site.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//*****
/* Make the //TAPEIN DD statement below active if you install*
/* from a CBPDO tape by uncommenting the DD statement below. *
//*****
/*TAPEIN DD DSN=IBM.HBBX120.F1,UNIT=tunit,
/* VOL=SER=volser,LABEL=(x,SL),
/* DISP=(OLD,KEEP)
//*****
/* Make the //TAPEIN DD statement below active if you install*
/* from a product tape received outside the CBPDO process *
/* (using the optional SMP/E RECEIVE job) by uncommenting *
/* the DD statement below. *
//*****
/*TAPEIN DD DSN=IBM.HBBX120.F1,UNIT=tunit,
/* VOL=SER=BBX120,LABEL=(2,SL),
/* DISP=(OLD,KEEP)
//*****
/* Make the //FILEIN DD statement below active for *
/* downloaded DASD files. *
//*****
/*FILEIN DD DSN=IBM.HBBX120.F1,UNIT=SYSALLDA,DISP=SHR,
/* VOL=SER=filevol
//OUT DD DSNAME=jc1-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(20,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
```

```
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

See the following information to update the statements in the previous sample:

TAPEIN:

tunit is the unit value that matches the product package.

volser is the volume serial that matches the product package.

x is the tape file number that indicates the location of the data set name on the tape.

See the documentation that is provided by CBPDO for the location of IBM.HBBX120.F1 on the tape.

FILEIN:

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT:

jcl-library-name is the name of the output data set where the sample jobs are stored.

dasdvol is the volume serial of the DASD device where the output data set resides.

SYSIN:

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.5 Allocate SMP/E CSI (Optional)

If you are using an existing CSI, do not execute this job.

If you are allocating a new SMP/E data set for this install, edit and submit sample job BBXALA to allocate the SMP/E data set for DB2 Fast Copy Solution Pack. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6.1.6 Initialize CSI zones (Optional)

If you are using an existing CSI, do not execute this job.

Edit and submit sample job BBXALB to initialize SMP/E zones for DB2 Fast Copy Solution Pack. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6.1.7 Perform SMP/E RECEIVE

If you have obtained DB2 Fast Copy Solution Pack as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the DB2 Fast Copy Solution Pack FMIDs, service, and HOLDDATA that are included on the CBPDO package. For more information, see the documentation that is included in the CBPDO.

You can also choose to edit and submit sample job BBXREC1 to perform the SMP/E RECEIVE for DB2 Fast Copy Solution Pack. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

You can also choose to edit and submit sample job BBXREC2 to perform the SMP/E RECEIVE for DB2 Recovery Expert. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

You can also choose to edit and submit sample job BBXREC3 to perform the SMP/E RECEIVE for DB2 Recovery Expert Identifier. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

You can also choose to edit and submit sample job BBXREC4 to perform the SMP/E RECEIVE for DB2 Cloning Tool. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6.1.8 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job BBXALLOC to allocate the SMP/E target and distribution libraries for DB2 Fast Copy Solution Pack. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6.1.9 Create DDDEF Entries

Edit and submit sample job BBXDDDEF to create DDDEF entries for the SMP/E target and distribution libraries for DB2 Fast Copy Solution Pack. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6.1.10 Perform SMP/E APPLY

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job BBXAPPLY to perform an SMP/E APPLY CHECK for DB2 Fast Copy Solution Pack. Consult the instructions in the sample job for more information.

The latest HOLDDATA is available through several different portals, including <http://service.software.ibm.com/holddata/390holddata.html>. The latest HOLDDATA may identify HIPER and FIXCAT APARs for the FMIDs you will be installing. An APPLY CHECK will help you determine if any HIPER or FIXCAT APARs are applicable to the FMIDs you are installing. If there are any applicable HIPER or FIXCAT APARs, the APPLY CHECK will also identify fixing PTFs that will resolve the APARs, if a fixing PTF is available.

You should install the FMIDs regardless of the status of unresolved HIPER or FIXCAT APARs. However, do not deploy the software until the unresolved HIPER and FIXCAT APARs have been analyzed to determine their applicability. That is, before deploying the software either ensure fixing PTFs are applied to resolve all HIPER or FIXCAT APARs, or ensure the problems reported by all HIPER or FIXCAT APARs are not applicable to your environment.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the APPLY CHECK. The SMP/E root cause analysis identifies the cause only of *errors* and not of *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings, instead of errors).

Here are sample APPLY commands:

- a. To ensure that all recommended and critical service is installed with the FMIDs, receive the latest HOLDDATA and use the APPLY CHECK command as follows

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND .
```

Some HIPER APARs might not have fixing PTFs available yet. You should analyze the symptom flags for the unresolved HIPER APARs to determine if the reported problem is applicable to your environment and if you should bypass the specific ERROR HOLDS in order to continue the installation of the FMIDs.

This method requires more initial research, but can provide resolution for all HIPERs that have fixing PTFs available and are not in a PE chain. Unresolved PEs or HIPERs might still exist and require the use of BYPASS.

- b. To install the FMIDs without regard for unresolved HIPER APARs, you can add the BYPASS(HOLDCLASS(HIPER)) operand to the APPLY CHECK command. This will allow you to install FMIDs even though one or more unresolved HIPER APARs exist. After the FMIDs are installed, use the SMP/E REPORT ERRSYSMODS command to identify unresolved HIPER APARs and any fixing PTFs.

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND
BYPASS(HOLDCLASS(HIPER),HOLDFIXCAT) .
..any other parameters documented in the program directory
```

This method is quicker, but requires subsequent review of the Exception SYSMOD report produced by the REPORT ERRSYSMODS command to investigate any unresolved HIPERs. If you have received the latest HOLDDATA, you can also choose to use the REPORT MISSINGFIX command and specify Fix Category IBM.ProductInstall-RequiredService to investigate missing recommended service.

If you bypass HOLDs during the installation of the FMIDs because fixing PTFs are not yet available, you can be notified when the fixing PTFs are available by using the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink.

2. After you take actions that are 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 applies all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages from APPLY CHECK: You will receive a return code of 0 if this job runs correctly.

Expected Return Codes and Messages from APPLY: You will receive a return code of 0 if this job runs correctly.

6.1.11 Perform SMP/E ACCEPT

Edit and submit sample job BBXACCEP to perform an SMP/E ACCEPT CHECK for DB2 Fast Copy Solution Pack. 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 PRE, ID, REQ, and IFREQ on the ACCEPT CHECK. The SMP/E root cause analysis identifies the cause of *errors* but not *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings rather than errors).

Before you use SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. In this way, you can save the entries that are produced from JCLIN in the distribution zone whenever a SYSMOD that contains inline JCLIN is accepted. For more information about the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E Commands book for details.

After you take actions that are 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 accepts all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages from ACCEPT CHECK: You will receive a return code of 0 if this job runs correctly.

If PTFs that contain replacement modules are accepted, SMP/E ACCEPT processing will link-edit or bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder might issue messages that indicate unresolved external references, which will result in a return code of 4 during the ACCEPT phase. You can ignore these messages, because the distribution libraries are not executable and the unresolved external references do not affect the executable system libraries.

Expected Return Codes and Messages from ACCEPT: You will receive a return code of 0 if this job runs correctly.

6.1.12 Run REPORT CROSSZONE

The SMP/E REPORT CROSSZONE command identifies requisites for products that are installed in separate zones. This command also creates APPLY and ACCEPT commands in the SMPPUNCH data set. You can use the APPLY and ACCEPT commands to install those cross-zone requisites that the SMP/E REPORT CROSSZONE command identifies.

After you install DB2 Fast Copy Solution Pack, it is recommended that you run REPORT CROSSZONE against the new or updated target and distribution zones. REPORT CROSSZONE requires a global zone with ZONEINDEX entries that describe all the target and distribution libraries to be reported on.

For more information about REPORT CROSSZONE, see the SMP/E manuals.

6.2 Activating DB2 Fast Copy Solution Pack

6.2.1 Product Customization

The publication IBM DB2 Fast Copy Solution Pack for z/OS Overview and Customization Guide (SC19-3787) contains the necessary information to customize with DB2 Tools Customizer (FMID HTCZ110) and use DB2 Fast Copy Solution Pack.

7.0 Notices

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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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