



**Program Directory for
IBM BatchPipes for OS/390
Version 2 Release 1**

Version 2 Release 1, Modification Level 0

Program Number 5655-D45

FMID HACH301

for Use with
MVS/ESA SP Version 5.1 or later
OS/390 Release 1 or later

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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 vii.

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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 IBM BatchPipes for OS/390. This publication refers to IBM BatchPipes for OS/390 as IBM BatchPipes for OS/390. 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 IBM BatchPipes for OS/390.
- 3.0, “Program Support” on page 7 describes the IBM support available for IBM BatchPipes for OS/390.
- 4.0, “Program and Service Level Information” on page 9 lists the APARs (program level) and PTFs (service level) incorporated into IBM BatchPipes for OS/390.
- 5.0, “Installation Requirements and Considerations” on page 11 identifies the resources and considerations for installing and using IBM BatchPipes for OS/390.
- 6.0, “Installation Instructions” on page 17 provides detailed installation instructions for IBM BatchPipes for OS/390. It also describes the procedures for activating the functions of IBM BatchPipes for OS/390, or refers to appropriate publications.
- Appendix A, “IBM BatchPipes for OS/390 Install Logic” on page 31 provides the install logic for IBM BatchPipes for OS/390.

Before installing IBM BatchPipes for OS/390, read 3.2, “Preventive Service Planning” on page 7. 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 IBM BatchPipes for OS/390 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 IBM BatchPipes for OS/390 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 IBM BatchPipes for OS/390 are included on the CBPDO tape.

1.1 IBM BatchPipes for OS/390 Description

For a description of IBM BatchPipes for OS/390, see *IBM BatchPipes OS/390 V2R1 Introduction*, GA22-7459-00.

1.2 IBM BatchPipes for OS/390 FMIDs

IBM BatchPipes for OS/390 consists of the following FMIDs:

HACH301

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for IBM BatchPipes for OS/390 is 5655-D45.

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 IBM BatchPipes for OS/390. 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 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 17 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 IBM BatchPipes for OS/390 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.

<i>Figure 1. Basic Material: Program Tape</i>				
Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
3480 cart.	5802	1	HACH301 MVS BASE	ACH301
4MM cart.	6085	1	HACH301 MVS BASE	ACH301

Figure 2. Program Tape: File Content

VOLSER	F i l e	Name	Dist Library	O R G	R E C F M	L R E C L	BLK SIZE
ACH301	1	SMPMCS	n/a	SEQ	FB	80	6400
	2	IBM.HACH301.F1	AASFPSAM AASFPTBL AASFPEXE AASFPPNL AASFMMAC AASFPMSG AASFPHLP	PDS	FB	80	8800
	3	IBM.HACH301.F2	AASFMMOD AASFMSMOD AASFPMOD	PDS	U	0	6144

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for IBM BatchPipes for OS/390.

2.3 Program Publications

The following sections identify the basic and optional publications for IBM BatchPipes for OS/390.

2.3.1 Basic Program Publications

Figure 3 identifies the basic unlicensed program publications for IBM BatchPipes for OS/390. For copies of BatchPipes for OS/390 go to the World Wide Web site(www):

www.s390.ibm.com/products/

Figure 3 (Page 1 of 2). Basic Material: Unlicensed Publications

Publication Title	Form Number
IBM BatchPipes OS/390 V2R1 Introduction	GA22-7459
IBM BatchPipes OS/390 V2R1 Users Guide and Reference	SA22-7458
IBM BatchPipes OS/390 V2R1 BatchPipesWorks Reference	SA22-7456

Figure 3 (Page 2 of 2). Basic Material: Unlicensed Publications

Publication Title	Form Number
IBM BatchPipes OS/390 V2R1 BatchPipesWorks User Guide	SA22-7457

2.3.2 Optional Program Publications

There are no optional publications for IBM BatchPipes for OS/390.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for IBM BatchPipes for OS/390.

2.5 Publications Useful During Installation

2.5.1 Publications Useful During Installation For OS/390

Figure 4. Publications Useful During Installation For OS/390

Publication Title	Form Number
OS/390 MVS Initialization and Tuning Guide	SC28-1751
OS/390 MVS Initialization and Tuning Reference	SC28-1752
OS/390 MVS JCL Reference	GC28-1757
OS/390 MVS System Commands	GC28-1781
OS/390 Security Server (RACF) Security Administrator's Guide	SC28-1915
OS/390 SMP/E Commands	SC28-1805
OS/390 SMP/E Messages and Codes	SC28-1738
OS/390 SMP/E Reference	SC28-1806
OS/390 SMP/E User's Guide	SC28-1740
OS/390 MVS Setting Up a Sysplex	GC28-1779

2.5.2 Publications Useful During Installation For MVS/SP Version 5

Figure 5. Publications Useful During Installation For MVS/SP Version 5

Publication Title	Form Number
MVS/ESA SP V5 Initialization and Tuning Guide	GC28-1451
MVS/ESA SP V5 Initialization and Tuning Reference	GC28-1452
MVS/ESA SP V5 System Data Set Definition	GC28-1432
MVS/ESA SP V5 JCL Reference	GC28-1479
MVS/ESA SP V5 System Commands	GC28-1442
MVS/ESA SP V5 Setting Up a Sysplex	GC28-1449
SMP/E Reference	SC28-1107
SMP/E User's Guide	SC28-1302
SMP/E Messages and Codes	SC28-1108
RACF Security Administrator's Guide	SC28-1340
DFSMS/MVS V1 Program Management	SC26-4916
DFSMS/MVS V1 Utilities	SC26-4926

3.0 Program Support

This section describes the IBM support available for IBM BatchPipes for OS/390.

3.1 Program Services

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

3.2 Preventive Service Planning

Before installing IBM BatchPipes for OS/390, you should review the current Preventive Service Planning (PSP) information. If you obtained IBM BatchPipes for OS/390 as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO tape.

If you obtained IBM BatchPipes for OS/390 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 IBM BatchPipes for OS/390 are:

<i>Figure 6. PSP Upgrade and Subset ID</i>		
UPGRADE	SUBSET	Description
BPMSPP301	HACH301	BatchPipes for OS/390 2.1.0

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 7 identifies the component IDs (COMPID) for IBM BatchPipes for OS/390.

<i>Figure 7. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HACH301	565506500	BatchPipes for OS/390	301

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of IBM BatchPipes for OS/390. 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

The following APAR fixes against previous releases of IBM SmartBatch for OS/390 have been incorporated into this release. They are listed by FMID.

- FMID HACH301

PQ12723	PQ17535	PQ26322
PQ13628	PQ18405	PQ27226
PQ15050	PQ18930	PQ30761
PQ15254	PQ19818	PQ30762
PQ17105	PQ22353	PQ31018
PQ17136	PQ23388	PQ32821
PQ17137	PQ25641	PQ33416

4.2 Service Level Information

No PTFs against this release of IBM BatchPipes for OS/390 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 IBM BatchPipes for OS/390. 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 IBM BatchPipes for OS/390.

5.1.1 Machine Requirements

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

5.1.2 Programming Requirements

<i>Figure 8 (Page 1 of 2). Driving System Software Requirements</i>	
Program Number	Product Name and Minimum VRM/Service Level
Any one of the following:	
5668-949	System Modification Program/Extended (SMP/E) Release 1.8.1 with PTF UR51070
5645-001	OS/390 SMP/E V1 R1 with PTF UR50599
	OS/390 SMP/E V1 R2 with PTF UR51071

Figure 8 (Page 2 of 2). Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
	OS/390 SMP/E V1 R3 with PTF UR51067
5647-A01	OS/390 SMP/E V2 R4 with PTF UR51067
	OS/390 SMP/E V2 R5 with PTF UR51068
	OS/390 SMP/E V2 R6 with PTF UR51068
	OS/390 SMP/E V2 R7 or higher
5695-DF1	DFSMS/MVS V1
	DFSMS/MVS 1.1 with PTFs UW02465, UW06242, UW08044, UW09723, UW13808, UY88012, UY88444, UY98043
	DFSMS/MVS 1.2 with PTFs UW04232, UW09722
	DFSMS/MVS 1.3 with PTFs UW28239, UW35440, UW36314
	DFSMS/MVS 1.4

5.2 Target System Requirements

This section describes the environment of the target system required to install and use IBM BatchPipes for OS/390.

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 9 (Page 1 of 2). Mandatory Requisites

Program Number	Product Name and Minimum VRM/Service Level
Any one of the following:	
5665-068	MVS/ESA V5 R1.0 or higher with PTFs UW05319, UW19658, UW38684 MVS/ESA V5 R2.0 with PTFs UW19659, UW38685 MVS/ESA V5 R2.2 with PTF UW38688

Figure 9 (Page 2 of 2). Mandatory Requisites

Program Number	Product Name and Minimum VRM/Service Level
5645-001	OS/390 V1 R1.0 or higher with PTFs OS/390 V1 R1 with PTFs UW38686, UW48848 OS/390 V1 R2 with PTFs UW38689, UW48852 OS/390 V1 R3 with PTFs UW38687, UW48849
5647-A01	OS/390 V2 R4.0 or higher OS/390 V2 R5 with PTF UW48850 OS/390 V2 R6 with PTF UW48851

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 10. Functional Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5685-054	ISPF V3 R5 or higher	BatchPipes for OS/390

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.

BatchPipes for OS/390 V2 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.

IBM BatchPipes for OS/390 has no negative requisites.

5.2.3 DASD Storage Requirements

IBM BatchPipes for OS/390 libraries can reside on 3380 or 3390 DASD.

Figure 11 lists the total space required for each type of library.

Figure 11. Total DASD Space Required by IBM BatchPipes for OS/390

Library Type	Total Space Required
Target	3380: 11 cylinders / 3390: 9 cylinders
Distribution	3380: 13 cylinders / 3390: 11 cylinders
HFS	0

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 6.1.6, "Allocate SMP/E Target and Distribution Libraries" on page 20.

The following figures describe the target and distribution libraries required to install IBM BatchPipes for OS/390. The storage requirements of IBM BatchPipes for OS/390 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. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

Figure 12. Storage Requirements for IBM BatchPipes for OS/390 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
SASFPEXE	EXEC	TVOL1	U	PDS	FB	80	13	2
SASFPHP	Help	TVOL1	U	PDS	FB	80	53	161
SASFPLIB	LMOD	TVOL1	U	PDS	U	0	30	22
SASFPLNK	LMOD	TVOL1	U	PDS	U	0	15	2
SASFPMAC	Macro	TVOL2	U	PDS	FB	80	7	2
SASFPMSG	Message	TVOL1	U	PDS	FB	80	2	2
SASFPPNL	Panel	TVOL1	U	PDS	FB	80	6	8
SASFPSAM	Sample	TVOL2	U	PDS	FB	80	7	2
SASFPTBL	Table	TVOL1	U	PDS	FB	80	2	2

Figure 13. Storage Requirements for IBM BatchPipes for OS/390 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
AASFMMAC	U	PDS	FB	80	7	2
AASFMMOD	U	PDS	U	0	50	46
AASFPEXE	U	PDS	FB	80	13	2
SASFPHP	U	PDS	FB	80	53	161
AASFPMOD	U	PDS	U	0	2	2
AASFPMSG	U	PDS	FB	80	2	2
AASFPPNL	U	PDS	FB	80	6	8
AASFPSAM	U	PDS	FB	80	7	2
AASFPTBL	U	PDS	FB	80	2	2
AASFSMOD	U	PDS	U	0	18	18

5.3 FMIDs Deleted

Installing IBM BatchPipes for OS/390 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, "IBM BatchPipes for OS/390 Install Logic" on page 31 for more information on how to do this.

If you do not wish to delete these FMIDs at this time, you must install IBM BatchPipes for OS/390 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

During SMP/E APPLY and ACCEPT processing of IBM BatchPipes for OS/390 V2 SMP/E processing will delete previous releases of IBM BatchPipe/MVS and IBM SmartBatch for OS/390. Therefore, IBM BatchPipes/MVS, IBM SmartBatch for OS/390 and IBM BatchPipes for OS/390 V2 can not coexist in the same SMP/E zones. If you plan to use both IBM BatchPipes for OS/390 V2 and IBM BatchPipes/MVS or IBM SmartBatch for OS/390 at your installation, IBM BatchPipes for OS/390 V2 must be installed and maintained in separate SMP/E zones. This requires that two sets of libraries be maintained, one set of libraries for IBM BatchPipes for OS/390 V2 and one set for IBM BatchPipes/MVS, or IBM SmartBatch for OS/390, to avoid disruptions to the system(s) currently running IBM BatchPipes/MVS or IBM SmartBatch for OS/390.

Libraries have been restructured between IBM BatchPipes/MVS and IBM BatchPipes for OS/390 Version 2. If IBM BatchPipes/MVS is installed at your installation, shared libraries LINKLIB, MACLIB, MODGEN, SAMPLIB, SIFALIB, ALINKLIB, AMACLIB, AMODGEN, ASAMPLIB, and AIFALIB will contain IBM BatchPipes/MVS elements. If IBM BatchPipes for OS/390 V2 is installed, these shared libraries will not contain any IBM BatchPipes for OS/390 V2 elements. If you plan to install IBM BatchPipes for OS/390 V2 on a clone system with IBM BatchPipes/MVS previously installed, ensure that DDDEF entries exist for the shared libraries since SMP/E processing will delete IBM BatchPipes/MVS elements from the shared libraries during APPLY and ACCEPT processing for IBM BatchPipes for OS/390 V2.

As a result of the library restructure, note the following changes:

Sample jobs will be contained in the SASFPSAM and AASFPSAM libraries after IBM BatchPipes for OS/390 V2 has been installed. In previous releases of IBM BatchPipes/MVS, sample jobs were provided in the SAMPLIB and ASAMPLIB libraries.

Macros will be contained in the SASFPMAC and AASFMMAC libraries after IBM BatchPipes for OS/390 V2 has been installed. In previous releases IBM BatchPipes/MVS macros were provided in libraries MODGEN, MACLIB, AMODGEN and AMACLIB.

Load modules residing in SYS1.LINKLIB after IBM BatchPipes/MVS was installed, can be found in the SASFPLNK library after IBM BatchPipes for OS/390 V2 has been installed.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of IBM BatchPipes for OS/390.

Please note the following:

- If you want to install IBM BatchPipes for OS/390 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 IBM BatchPipes for OS/390

6.1.1 SMP/E Considerations for Installing IBM BatchPipes for OS/390

This release of IBM BatchPipes for OS/390 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

You must ensure that the OPTIONS and UTILITY entries in the global zone are set correctly.

You have the choice of:

- Defining new entries as shown in the program directory
- Updating existing entries.
- Using existing entries with the same values shown.

The following entries may be used for the installation of BatchPipes for OS/390:

- A UTILITY entry for linkedit. Ensure that RC(0) is specified. These values also apply to the program management binder shipped with DFSMS/MVS 1.1 and later releases.
- An OPTIONS entry that identifies the UTILITY entries to be used.
 - Ensure that you include the LKED subentry.
 - Do not specify PEMAX. Allow the PEMAX value to default to 15000.

The sample job shown will add a global zone OPTIONS entry named 'OS390OPT' which is used in the sample SMP/E jobs throughout the chapter. You can use either this job or the SMP/E administration dialog to add the OPTIONS and UTILITY entries in the SMP/E CSI if the global zone OPTIONS and UTILITY entries do not already exist. If the 'OS390OPT' global zone OPTIONS entry already exists, you may use the existing 'OS390OPT' options entry for the installation of IBM BatchPipes for OS/390. You do not need to add the entry.

```
//OPTIONS JOB <job parameters>
//STEP1 EXEC PGM=GIMSMP
//SMPCSI DD DSN=smpe.global.csi,DISP=SHR
//SMPCNTL DD *
  SET BOUNDARY(GLOBAL) .
  UCLIN .
  ADD UTILITY(HEWLH096)
    NAME(HEWLH096)
    PARM(LIST,LET,SIZE=(1526K,96K),NCAL,XREF)
    RC(0) .
  ADD OPTIONS(OS390OPT)
    LKED(HEWLH096)
    DSSPACE(60,60,350) .      /* FOR 3390 DASD */
  ENDUCL .
/*
```

Figure 14. Adding Entries in the Global Zone

Prior to running the sample job, make the following changes:

1. Update the job parameters as required for the installation.
2. Change 'smpe.global.csi' to the SMP/E CSI name.

Note: If you have the program binder, remove the SIZE and LIST parameters and allow them to default.

The recommended values for some SMP/E CSI subentries are shown in Figure 15. 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 15. SMP/E Options Subentry Values

SUB-ENTRY	Value	Comment
DSSPACE	60,60,350	Value for 3390 DASD
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 IBM BatchPipes for OS/390:

Figure 16. Sample Installation Jobs			
Job Name	Job Type	Description	RELFILE
ASFPJALC	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HACH301.F1
ASFPDDDF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HACH301.F1

You can access the sample installation jobs by performing an SMP/E RECEIVE for FMID HACH301, and then copying the jobs from data set **hlq.IBM.HACH301.F1** to a work data set for editing and submission.

6.1.4 Perform SMP/E RECEIVE

This step loads SYSMOD information for FMID HACH301 from the program tape into the SMPPTS data set and the global zone, and places the associated data records into temporary SMPTLIB data sets for subsequent processing.

Note: If you obtained IBM BatchPipes for OS/390 as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the IBM BatchPipes for OS/390 FMID HACH301 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.

The following sample job may be used to SMP/E RECEIVE FMID HACH301 from tape.

```
//RECEIVE JOB <job parameters>
//STEP1 EXEC PGM=GIMSMP,REGION=4M
//SMPPTFIN DD DSN=SMPMCS,DISP=(OLD,PASS),
//          VOL=SER=ACH301,UNIT=uuuu,LABEL=(,SL)
//SMPCSI DD DSN=smpe.global.csi,DISP=SHR
//SMPCNTL DD *
  SET BOUNDARY(GLOBAL)
  OPTIONS(OS390OPT) .
  RECEIVE SELECT(HACH301) SYSMODS LIST .
/*
```

Figure 17. Sample Receive Job

Before running the sample job, make the following changes:

1. Update the job parameters as required.
2. Change 'uuuu' with the appropriate device type for the distribution medium that you received.

3. Change 'smpe.global.csi' to the SMP/E CSI name.

Expected Return Codes and Messages:

A return code of 0 is expected during SMP/E RECEIVE processing.

6.1.5 RECEIVE the Cumulative Service Tape (if provided)

If you received a cumulative service tape with BatchPipes for OS/390, you should run an SMP/E RECEIVE job to receive the service contained on the tape. Installation instructions for cumulative service tapes can be found in the SMP/E publications.

Note: This step is bypassed if receiving the product from a CBPDO.

6.1.6 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job ASFPJALC to allocate the SMP/E target and distribution libraries for IBM BatchPipes for OS/390. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages:

After the sample job is run, verify that a return code of 0 is issued and check the allocation messages to ensure that the libraries were successfully allocated.

6.1.7 Create DDDEF Entries

Edit and submit sample job ASFPDDDF to create DDDEF entries for the SMP/E target and distribution libraries for IBM BatchPipes for OS/390. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages:

A condition code of 0 is expected if the DDDEF entries did not previously exist and the DDDEF entries were successfully added to the SMP/E CSI when the job was run.

6.1.8 Perform SMP/E Apply CHECK

Run an APPLY CHECK to identify any requisite service, and additional holds (for example, HOLDSYS(DOC,ACTION)) that may need to be resolved before APPLY processing. Resolve any holds and receive any requisite service identified by the APPLY CHECK before the next step.

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

Note: GROUPEXTEND operand indicates that all requisite SYSMODs are to be applied. The requisite SYSMODs may apply to other functions. In the given example, GROUPEXTEND will not include APARs

or USERMODs. If you want APARs and USERMODs to be included, remove the keywords NOAPARS and NOUSERMODS.

The following sample job may be used to APPLY CHECK FMID HACH301 and service for HACH301.

```
//CHECK JOB <job parameters>
//STEP1 EXEC PGM=GIMSMP,REGION=4M
//SMPCSI DD DSN=smpe.global.csi,DISP=SHR
//SMPCNTL DD *
    SET BOUNDARY(targetzone)
    OPTIONS(OS390OPT) .
    APPLY CHECK FORFMID(HACH301)
        SELECT(HACH301)
        GROUPEXTEND(NOAPARS,NOUSERMODS)
        BYPASS(HOLDSYSTEM,HOLDUSER,
        HOLDCLASS(ERREL,UCLREL)) .
/*
```

Figure 18. Sample APPLY Check

The sample JCL in Figure 18 above will APPLY CHECK the functions specified in the SELECT operand, plus received PTFs that are applicable only to the FMIDs listed in the FORFMID operand. GROUPEXTEND indicates that all requisite SYSMODs are to be applied.

Before running the job, make the following changes:

1. Update the job parameters as required.
2. Change 'smpe.global.csi' to the SMP/E CSI name.
3. Change 'targetzone' to the target zone name.

Expected Return Codes and Messages:

During an APPLY CHECK, the SMP/E Element Summary Report will indicate the status of elements contained in a SYSMOD.

- When the status of an element appears as APPLIED with NOT SEL, the 'NOT SEL' status can be ignored.
- Any Element Status showing a status of ONLY 'NOT SEL' must be investigated.

Successful APPLY CHECK processing will return a condition code of 0.

6.1.9 Perform SMP/E APPLY

SMP/E APPLY processing will install the IBM BatchPipes for OS/390 code into the target libraries. Before running the APPLY, you must ensure that any holds, such as action holds, identified during APPLY CHECK processing have been resolved. Any requisite service that was identified as missing during the APPLY CHECK processing must also be RECEIVED prior to performing the APPLY.

The following sample job may be used to APPLY FMID HACH301 and service for HACH301.

```
//APPLY JOB <job parameters>
//STEP1 EXEC PGM=GIMSMP,REGION=4M
//SMPCSI DD DSN=smpe.global.csi,DISP=SHR
//SMPCNTL DD *
    SET BOUNDARY(targetzone)
    OPTIONS(OS390OPT) .
    APPLY FORFMID(HACH301)
    SELECT(HACH301)
    BYPASS(HOLDCLASS(ERREL,UCLREL))
    GROUPEXTEND(NOAPARS,NOUSERMODS)
    COMPRESS(ALL) .
/*
```

Figure 19. Sample APPLY Job

Before running the sample job, make the following changes:

1. Update the job parameters as required.
2. Change 'smpe.global.csi' to the SMP/E CSI name.
3. Change 'targetzone' to the target zone name.

The sample JCL provided will APPLY the functions specified in the SELECT operand, plus received PTFs that are applicable only to the FMIDs listed in the FORFMID operand. GROUPEXTEND indicates that all requisite sysmods will be applied.

Note: The GROUPEXTEND indicates that SMP/E apply all requisite SYSMODs. In the example, GROUPEXTEND will not include APARs or USERMODs.

Expected Return Codes and Messages:

During an APPLY, the SMP/E Element Summary Report will indicate the status of elements contained in a SYSMOD.

- When the status of an element appears as APPLIED with NOT SEL, the 'NOT SEL' status can be ignored.
- Any Element Status showing a status of ONLY 'NOT SEL' in the Element Summary Report must be investigated.

Successful APPLY processing will return a condition code of 0.

6.1.10 Perform ACCEPT CHECK

Run an ACCEPT CHECK to identify any requisite service that may be necessary before the ACCEPT processing. Any requisite service identified by the ACCEPT CHECK must be RECEIVED and APPLYed.

The following sample job may be used to ACCEPT CHECK FMID HACH301 and service for HACH301.

```
//CHECK JOB <job parameters>
//STEP1 EXEC PGM=GIMSMP,REGION=4M
//SMPCSI DD DSN=smpe.global.csi,DISP=SHR
//SMPCNTL DD *
    SET BOUNDARY(dlibzone)
    OPTIONS(OS3900PT) .
    ACCEPT CHECK FORFMID(HACH301)
        SELECT(HACH301)
    GROUPEXTEND(NOAPARS,NOUSERMODS)
    BYPASS(HOLDSYSTEM,HOLDUSER,
        HOLDCLASS(ERREL,UCLREL)) .
/*
```

Figure 20. Sample ACCEPT Check

Before running the sample job, make the following changes:

1. Update the job parameters as required.
2. Change 'smpe.global.csi' to the SMP/E CSI name.
3. Change 'dlibzone' to the distribution zone name.

The sample JCL provided will ACCEPT CHECK the functions specified in the SELECT operand, plus all APPLYed PTFs that are applicable only to the FMIDs listed in the FORFMID operand.

Note: The GROUPEXTEND indicates that SMP/E accept all requisite SYSMODs. In the example, GROUPEXTEND will not include APARs or USERMODs.

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).

Expected Return Codes and Messages:

During an ACCEPT CHECK, SMP/E Element Summary Report will indicate the status of elements contained in a SYSMOD.

- When the status of an element appears as ACCEPTED with NOT SEL, the 'NOT SEL' status can be ignored.
- Any Element Status showing ONLY a 'NOT SEL' must be investigated.

Successful ACCEPT CHECK will return a condition code of 0.

6.1.11 Perform SMP/E ACCEPT

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.

The following sample job may be used to ACCEPT FMID HACH301 and service for HACH301.

```
//ACCEPT JOB <job parameters>
//STEP1 EXEC PGM=GIMSMP,REGION=4M
//SMPCSI DD DSN=smpe.global.csi,DISP=SHR
//SMPCNTL DD *
    SET BOUNDARY(dlibzone)
    OPTIONS(OS390OPT) .
    ACCEPT FORFMID(HACH301)
        SELECT(HACH301)
        BYPASS(HOLDCLASS(ERREL,UCLREL))
        GROUPEXTEND(NOAPARS,NOUSERMODS)
        COMPRESS(ALL) .
/*
```

Figure 21. Sample ACCEPT Job

Before running the sample job, make the following changes:

1. Update the job parameters as required.
2. Change 'smpe.global.csi' to the SMP/E CSI name.
3. Change 'dlibzone' to the distribution zone name.

This will ACCEPT the functions specified in the SELECT operand, plus APPLYed PTFS that are applicable only to the FMIDs listed in the FORFMID operand.

Note: The GROUPEXTEND operand indicates that SMP/E apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions. In the example, GROUPEXTEND processing will not include APARs or usermods.

Expected Return Codes and Messages:

During an ACCEPT, the SMP/E Element Summary Report will indicate the status of elements contained in a SYSMOD.

- When the status of an element indicates ACCEPTED with NOT SEL, the 'NOT SEL' status can be ignored.
- Any Element Status showing ONLY a 'NOT SEL' should be investigated.

Successful ACCEPT processing for FMID HACH301 will return a condition code of 0.

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.

6.1.12 Run Crosszone Requisite Checking Report

After you have installed IBM BatchPipes for OS/390, IBM recommends that you run an SMP/E REPORT CROSSZONE against the target and DLIB zone(s) and all other target and dlib zones for products that will be used with IBM BatchPipes for OS/390 to identify requisite service that must be installed.

See *SMP/E Reference* or *OS/390 SMP/E Reference* for instructions on running the crosszone reports.

6.1.13 Initializing IBM BatchPipes for OS/390

After SMP/E APPLY and ACCEPT processing has completed for IBM BatchPipes for OS/390, you must initialize the IBM BatchPipes for OS/390 subsystem. Initialization steps are described below. For additional information on these initialization activities, see *IBM BatchPipes for OS/390 Users Guide and Reference*.

6.1.13.1 PROCLIB Changes

- You must create a JCL procedure to start the IBM BatchPipes for OS/390 subsystem, if one does not exist, and add the procedure to SYS1.PROCLIB.
 - A sample procedure, ASFPJI, will reside in SASFPSAM library after IBM BatchPipes for OS/390 is installed. Member ASFPJI may be used to start a IBM BatchPipes for OS/390 subsystem named 'BP01'. You may copy the ASFPJI member to SYS1.PROCLIB and update as required for your installation.
 - The sample ASFPJI member contains a STEPLIB DD statement that refers to SYS1.SASFPLIB. If IBM BatchPipes for OS/390 has been installed into libraries having a high-level qualifier other than 'SYS1', you must update the STEPLIB DD statement as required for your installation.

- If you are using multiple releases of IBM BatchPipes for OS/390, BatchPipes/MVS, or SmartBatch for OS/390 at your installation, it is recommended that you use separate procedures to start the subsystem for each release. You must ensure that the STEPLIB DD statement contained in each started procedure refers to the correct libraries.

6.1.13.2 PARMLIB Changes

- Identify the name of the BatchPipes subsystem:
 - Add the IBM BatchPipes for OS/390 subsystem name(s) to the IEFSSNxx member of SYS1.PARMLIB. You must ensure that the name on the procedure in SYS1.PROCLIB which starts the IBM BatchPipes for OS/390 subsystem corresponds to the IBM BatchPipes for OS/390 subsystem defined in the IEFSSNxx member. If you plan to use the default IBM BatchPipes for OS/390 subsystem named 'BP01', you must add 'BP01' to the list of subsystems contained in the appropriate IEFSSNxx member in SYS1.PARMLIB.
 - Or, you can avoid this step by using the SETSSI command to define the name of the IBM BatchPipes for OS/390 subsystem, if MVS/ESA SP 5.2.0 or a later release is installed. This command can be included in the COMMNDxx member of SYS1.PARMLIB. You must ensure that the name on the procedure in SYS1.PROCLIB which starts the IBM BatchPipes for OS/390 subsystem corresponds to the IBM BatchPipes for OS/390 subsystem name used on the SETSSI command. For example, to define the default IBM BatchPipes for OS/390 subsystem, BP01, you would use the following command:
`'SETSSI ADD,SUBNAME=BP01'`
- Authorize IBM BatchPipes for OS/390 using the authorized program facility (APF). Use one of the following methods to APF-authorize IBM BatchPipes for OS/390:
 - Add SYS1.SASFPLIB to the list of libraries contained in the PROGxx member in SYS1.PARMLIB, or
 - Use the dynamic APF services to dynamically add SYS1.SASFPLIB to the list of APF-authorized libraries, or
 - Add SYS1.SASFPLIB to the list of libraries contained in the IEAAPFxx member in SYS1.PARMLIB.

Note: If you use the dynamic APF services to dynamically add SYS1.SASFPLIB to the list of APF-authorized libraries, then the library must be dynamically authorized after each IPL. Therefore, it is recommended that you use the PROGxx member to APF-authorize the library rather than dynamically authorizing the library after each IPL.

If IBM BatchPipes for OS/390 has been installed into libraries having a high-level qualifier other than 'SYS1', you must specify the name of the SASFPLIB library used at your installation when APF-authorizing IBM BatchPipes for OS/390.

- You must add the name of the SASFPLNK library containing IBM BatchPipes for OS/390 load modules to the list of libraries contained in the LNKLSTxx member in SYS1.PARMLIB and you must APF authorize the library.

- You may define default subsystem settings for IBM BatchPipes for OS/390 by creating a member, ASFPBPxx, in SYS1.PARMLIB.
 - A sample member, ASFPBP00, provides default subsystem settings and may be found in SASFPSAM after IBM BatchPipes for OS/390 has been installed. You may copy the sample ASFPBP00 member to SYS1.PARMLIB, if one does not exist, and update as required for your installation.
 - You may specify that the settings contained in the ASFPBPxx member in SYS1.PARMLIB are to be used during IBM BatchPipes for OS/390 initialization by updating the 'MEM=xx' parameter in the IBM BatchPipes for OS/390 started procedure in SYS1.PROCLIB. Note that 'xx' refers to the suffix of the ASFPBPxx member in SYS1.PARMLIB.
 - If you have added the default 'BP01' started procedure (provided in the sample ASFPJI member) to SYS1.PROCLIB and added the default ASFPBP00 member to SYS1.PARMLIB, then the settings contained in the ASFPBP00 member in SYS1.PARMLIB will be used during IBM BatchPipes for OS/390 initialization. The default 'BP01' started procedure specifies 'MEM=00' which means that ASFPBP00 will be read during IBM BatchPipes for OS/390 initialization.
 - If you do not create the ASFPBP00 member in SYS1.PARMLIB, default settings will be used during IBM BatchPipes for OS/390 initialization.
- Ensure that a system linkage index is, or indices are, available. If needed, increase the number of LXs by changing the NSYSLX parameter defined in the IEASYSxx member in SYS1.PARMLIB.
- Evaluate and change, if necessary, the CSA=(a,b) values defined in the IEASYSxx member in SYS1.PARMLIB. Some IBM BatchPipes for OS/390 modules are loaded into CSA and thus more CSA may be required.
- Evaluate the SRM parameter settings and update as required.

6.1.13.3 Restricting the Use of IBM BatchPipes for OS/390

- You must restrict the use of IBM BatchPipes for OS/390 with a security product, including restricting access to the IBM BatchPipes for OS/390 subsystem, the piped data sets, the IBM BatchPipes for OS/390 operator commands and BatchPipeWorks.

6.1.13.4 Updating the Catalog

- Catalog the IBM BatchPipes for OS/390 system libraries. Note that the SASFPLIB library must be cataloged in the master catalog or cataloged in an ICF catalog pointed to by an ALIAS in the master catalog.

6.1.13.5 Setup for IBM BatchPipes for OS/390 Monitor

- You may use the IBM BatchPipes for OS/390 monitor that is provided to monitor the IBM BatchPipes for OS/390 subsystem and associated jobs. The IBM BatchPipes for OS/390 monitor is invoked through ISPF. If you plan to use the IBM BatchPipes for OS/390 monitor, you must update select TSO logon procedures in SYS1.PROCLIB to include the IBM BatchPipes for OS/390 libraries in the ISPF library concatenations for users who will be invoking the IBM BatchPipes for OS/390 monitor.

6.1.13.6 Defining Coupling Facility Structure: If your installation plans to run IBM BatchPipes for OS/390 in BatchPipePlex (Cross-System) mode, you must define the Coupling Facility structure to be used by the function. See *IBM BatchPipes OS/390 V2R1 Users Guide and Reference*, SA22-7458 Chapter 2, for additional information on defining the Coupling Facility Structure.

6.1.14 Verify that the Installation of IBM BatchPipes for OS/390 is Complete

To verify that IBM BatchPipes for OS/390 is properly installed, you should make the following **minimal check**:

- Prepare the MVS system to run the IBM BatchPipes for OS/390 subsystem.
 - Re-IPL the MVS system, or issue the SETSSI command as described in 6.1.13.2, “PARMLIB Changes” on page 26, if MVS/ESA SP 5.2.0 or a later release is installed.
- Start one instance of a IBM BatchPipes for OS/390 subsystem. If you will be starting the default IBM BatchPipes for OS/390 subsystem named ‘BP01’ using the default settings in the ASFPBP00 member in SYS1.PARMLIB, you may issue the command ‘S BP01’ to start the IBM BatchPipes for OS/390 subsystem. (See *IBM BatchPipes for OS/390 Users Guide and Reference* for additional information.)
- Verify that IBM BatchPipes for OS/390 initialization is complete. The following message will be issued indicating that initialization was successful:
 - ‘ASFP011I BATCHPIPES BPxx INITIALIZATION COMPLETE.’ where ‘BPxx’ represents the subsystem name.

If the subsystem does not initialize, ensure that all steps identified under 6.1.13, “Initializing IBM BatchPipes for OS/390” on page 25 have been completed.

- Ensure that two initiators have been started prior to running the Installation Verification Program (IVP) jobs.
- Copy member ASFPJVP from SASFPSAM library, after IBM BatchPipes for OS/390 has been installed, and update IVP jobs ASFPJVP1 and ASFPJVP2 that are contained in ASFPJVP. See the comments provided in sample job ASFPJVP for a description of the changes required.
- Concurrently submit the IVP jobs, ASFPJVP1 and ASFPJVP2.
- Verify that the IVP jobs successfully completed, as documented in the sample IVP jobs. Verify that the return codes from the IVP jobs are zero.

If the IVP fails, check the following:

- Verify that the correct IBM BatchPipes for OS/390 subsystem name has been added to the IVP JCL.
- Verify that any required affinity specifications have been added to the IVP JCL.
- Verify that the correct name of the IBM BatchPipes for OS/390 subsystem has been defined to the MVS system:

- Verify that the IEFSSNxx member of SYS1.PARMLIB has been updated with the correct IBM BatchPipes for OS/390 subsystem name, if the SETSSI command was not used to define the name of the IBM BatchPipes for OS/390 subsystem to the MVS system.
- Ensure that an IPL of the MVS system has been done since the name of the IBM BatchPipes for OS/390 subsystem had been added to the IEFSSNxx member of SYS1.PARMLIB, if the SETSSI command was not used to define the name of the IBM BatchPipes for OS/390 subsystem to the MVS system.
- Or, ensure that the SETSSI command executed successfully and that the SUBNAME option specified on the command matches the name of the IBM BatchPipes for OS/390 subsystem specified in the procedure in SYS1.PROCLIB, if the SETSSI command was used to define the name of the IBM BatchPipes for OS/390 subsystem to the MVS system.
- Use the DISPLAY SSI command to present a list of the valid subsystem names on the system and verify that the IBM BatchPipes for OS/390 subsystem name specified on the procedure in SYS1.PROCLIB is a valid name, if MVS/ESA SP 5.2.0 or a later release is installed.
- Verify that the SASFPLIB library is APF-authorized, if the library is not APF-authorized then you will see message ASFP001E when you try and start the subsystem.
- Ensure that sufficient ECSA is available.
- Ensure that enough system linkage indexes (LX) are available. The NSYSLX keyword of the IEASYSxx member of SYS1.PARMLIB specifies the number of LXs available.
- If the IVP job ASFPJVP2 fails in the FITCONS step with message “ASFP332I REQUIRED RESOURCE CHECK FAILED: ASFPJVP2, FITCONS, SYSUT2, ssnm, PSP.ASFPAFIT.ssnm” where ‘ssnm’ is the subsystem name, it is possible that software is installed on your system which prevents IBM BatchPipes for OS/390 from determining the correct environment for jobs using fittings. See informational APAR II09331 for more information regarding this situation.

Appendix A. IBM BatchPipes for OS/390 Install Logic

A.1 SMP/E Modification Control Statements

The SMP/E Modification Control Statements (SMPMCS) for IBM BatchPipes for OS/390 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 IEBTPCH).

A.2 SMP/E JCLIN

The JCLIN for IBM BatchPipes for OS/390 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 IEBTPCH).

The files containing JCLIN are:

FMID HACH301: 'high-level-qualifier'.HACH301.F1(HACH301)

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

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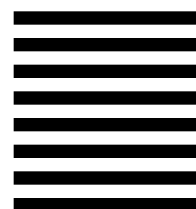
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