IBM

Program Directory for

IBM IMS High Performance Load for z/OS

V02.01.00

Program Number 5655-M26

FMID H1IM210

for Use with
z/OS

Document Date: November 2009

Contents

Figures

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 IMS High Performance Load for z/OS. This publication refers to IBM IMS High Performance Load for z/OS as IMS HP Load.

The Program Directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic and optional program materials and documentation for IMS HP Load.

- 3.0, "Program Support" on page 6 describes the IBM support available for IMS HP Load.

- 4.0, "Program and Service Level Information" on page 8 lists the APARs (program level) and PTFs (service level) incorporated into IMS HP Load.

- 5.0, "Installation Requirements and Considerations" on page 10 identifies the resources and considerations required for installing and using IMS HP Load.

- 6.0, "Installation Instructions" on page 15 provides detailed installation instructions for IMS HP Load. It also describes the procedures for activating the functions of IMS HP Load, or refers to appropriate publications.

Before installing IMS HP Load, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that were supplied with this program in softcopy form as well as this Program Directory and then keep them for future reference. Section 3.2, "Preventive Service Planning" on page 6 tells you how to find any updates to the information and procedures in this Program Directory.

IMS HP Load is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The Program Directory is provided in softcopy form on the CBPDO tape which is identical to the hardcopy form provided with your order. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for IMS HP Load are included on the CBPDO tape.

Do not use this Program Directory if you are installing IMS HP Load 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.

1.1 IMS HP Load Description

IMS High Performance Load for z/OS, V2 (5655-M26) offers high-performance database reloading for IMS full-function databases. Improvements include:

- Restructuring code to reduce CPU time utilization

- Improving I/O processing to reduce I/O wait

- Exploiting high performance I/O driver

Functional enhancements include support for:

- IMS Reorganization reload of HALDB partitions, including HALDB partitions defined in RECON as online reorganization capable (OLRCAP).
- ILDSBLD=YES option, which greatly reduces EXCPs for the HALDB Indirect List Data Set (ILDS) during HALDB reorganization reload.
- IMS Parallel Reorganization for z/OS, V3 (5655-M28): IMS High Performance Load V2 is required to enable such functions as image copy during database reorganization.
- Various formats of the unloaded data sets.

IMS High Performance Load V2 includes the Physical Sequence Sort for Reload (PSSR) utility.

JCL statements for IMS High Performance Load V2 are fully compatible with those for its previous version. You can use your IMS High Performance Load V1 JCL streams with IMS High Performance Load V2 without modification.

1.2 IMS HP Load FMID

IMS HP Load consists of the following FMID:

H1IM210

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for IMS HP Load is 5655-M26 and its feature number is 5802.

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

The program announcement material describes the features supported by IMS HP Load. 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 magnetic tape or downloadable files. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, "Installation Instructions" on page 15 for more information about how to install the program.

Information about the physical tape for the Basic Machine-Readable Materials for IMS HP Load can be found in the *CBPDO Memo To Users Extension*.

Non-CBPDO Customers

If you receive the product tape and program directory outside the CBPDO process, refer to 6.1.4, "Sample Jobs" on page 16 for details (media volser, file name, tape file number) and how to proceed.

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 should be used in the JCL of jobs reading the data sets, but since the data sets are in IEBCOPY unloaded format, their actual attributes may be different.

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

Figure 1 (Page 1 of 2). Program File Content				
Name	**ORG**	**RECFM**	**LRECL**	**BLK SIZE**
SMPMCS	SEQ	FB	80	6400
IBM.H1IM210.F1	PDS	FB	80	8800

Figure 1 (Page 2 of 2). Program File Content				
Name	**O R G**	**R E C F M**	**L R E C L**	**BLK SIZE**
IBM.H1IM210.F2	PDS	FB	80	8800
IBM.H1IM210.F3	PDS	U	0	6144
IBM.H1IM210.F4	PDS	FB	80	8800

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for IMS HP Load.

2.3 Program Publications

The following sections identify the basic and optional publications for IMS HP Load.

2.3.1 Basic Program Publications

Figure 2 identifies the basic unlicensed program publications for IMS HP Load. One copy of each of these publications is included when you order the basic materials for IMS HP Load. For additional copies, contact your IBM representative.

Figure 2. Basic Material: Unlicensed Publications	
Publication Title	**Form Number**
IBM IMS HP Load for z/OS License Information	GC18-9221

Figure 3 identifies the basic unlicensed or licensed publications that are not available in hardcopy form, but are available through the internet or other media for IMS HP Load.

Figure 3. Basic Material: Other Unlicensed or Licensed Publications		
Publication Title	**Form Number**	**How Available**
IBM IMS HP Load for z/OS User's Guide	SC18-9222	http://www.ibm.com/software/ data/db2imstools/library.html

Publications are available in PDF and BookManager formats on CD-ROM on the next release of software product libraries:

- *z/OS Software Products Collection, SK3T-4270*

2.3.2 Optional Program Publications

No optional publications are provided for IMS HP Load.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for IMS HP Load.

2.5 Publications Useful During Installation

The publications listed in Figure 4 may be useful during the installation of IMS HP Load. To order copies, contact your IBM representative or visit the IBM Publications Center on the World Wide Web at: http://www.ibm.com/shop/publications/order

Figure 4. Publications Useful During Installation	
Publication Title	**Form Number**
IBM SMP/E for z/OS and OS/390 User's Guide	SA22-7773
IBM SMP/E for z/OS and OS/390 Commands	SA22-7771
IBM SMP/E for z/OS and OS/390 Reference	SA22-7772
IBM SMP/E for z/OS and OS/390 Messages, Codes, and Diagnosis	GA22-7770

3.0 Program Support

This section describes the IBM support available for IMS HP Load.

3.1 Program Services

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

3.2 Preventive Service Planning

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

If the CBPDO for IMS HP Load 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".

For program support, access the Software Support web site at http://www-3.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 IMS HP Load are:

Figure 5. PSP Upgrade and Subset ID		
UPGRADE	**SUBSET**	**Description**
5655M26	H1IM210/0937	IMS High Performance Load

For additional Service related information, visit
http://www.ibm.com/software/data/db2imstools/support.html

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 6 identifies the component IDs (COMPID) for IMS HP Load.

Figure 6. Component IDs			
FMID	**COMPID**	**Component Name**	**RETAIN Release**
H1IM210	5655E0700	IMS HP Load	210

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of IMS HP Load. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs incorporated into the program.

4.1 Program Level Information

The following APAR fixes against previous releases of IMS HP Load have been incorporated into this release. They are listed by FMID.

- FMID H1IM110.

PQ45256	PQ62856	PQ77101
PQ45743	PQ63287	PQ78094
PQ48018	PQ63628	PQ78371
PQ48740	PQ65831	PQ78826
PQ48976	PQ65838	PQ79416
PQ48993	PQ65901	PQ79624
PQ50280	PQ66809	PQ79792
PQ50283	PQ66866	PQ79982
PQ50284	PQ67346	PQ79990
PQ50675	PQ67440	PQ80198
PQ51000	PQ67957	PQ80248
PQ51495	PQ68239	PQ80569
PQ52914	PQ68587	PQ81063
PQ53316	PQ68785	PQ81883
PQ54734	PQ69009	PQ83248
PQ56648	PQ69473	PQ83995
PQ57582	PQ70526	PQ84118
PQ57944	PQ71316	PQ84268
PQ59833	PQ71828	PQ84901
PQ59841	PQ72723	PQ85616
PQ60716	PQ76334	PQ87695
PQ61147	PQ76494	PQ88727
PQ61148	PQ76672	PQ93663
PQ61448		

4.2 Service Level Information

PTFs containing APAR fixes against this release of IMS HP Load have been incorporated into this product tape. For a list of included PTFs, examine the ++VER statement in the product's SMPMCS.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating IMS HP Load. 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 IMS HP Load.

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 7. Driving System Software Requirements	
Program Number	**Product Name and Minimum VRM/Service Level**
Any **one** of the following:	
5694-A01	z/OS V01.09.00 or higher
5655-G44	IBM SMP/E for z/OS and OS/390 V3.04.00 or higher

5.2 Target System Requirements

This section describes the environment of the target system required to install and use IMS HP Load.

IMS HP Load 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: An installation requisite is defined as a product that is required and **must** be present or one that is not required but **should** be present on the system for the successful installation of this product.

A mandatory installation requisite identifies products that are required, without exception, or this product **will not install** on your system. This includes products specified as PREs or REQs.

IMS HP Load has no mandatory installation requisites.

A conditional installation requisite identifies products that are **not** required for successful install but may resolve such things as certain warning messages at installation time. They include products that are specified as IF REQs.

IMS HP Load has no conditional installation requisites.

5.2.2.2 Operational Requisites: An operational requisite is defined as a product that is required and **must** be present or a product that is not required but **should** be present on the system in order for this product to operate all or some of its functions.

A mandatory operational requisite identifies products that are required, without exception, or this product **will not operate** its basic function unless the requisite is met. This includes products specified as PREs or REQs.

Figure 8. Mandatory Operational Requisites	
Program Number	**Product Name and Minimum VRM/Service Level**
Any **one** of the following:	
5655-J38	IMS V09.01.00
5635-A01	IMS V10.01.00
5635-A02	IMS V11.01.00

A conditional operational requisite identifies products that are **not required** for the basic function but are needed at run time for this product to utilize specific functions. They may include products specified as IF REQs.

IMS HP Load has no conditional operational requisites.

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

IMS HP Load 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.

IMS HP Load has no negative requisites.

5.2.3 DASD Storage Requirements

IMS HP Load libraries can reside on all supported DASD types.

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

Figure 9. Total DASD Space Required by IMS HP Load	
Library Type	**Total Space Required**
Target	440 tracks
Distribution	440 tracks

Notes:

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

2. Abbreviations used for the data set type are:

   U   Unique data set, allocated by this product and used only by this product. 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. 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. 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 6.1.8, "Allocate SMP/E Target and Distribution Libraries" on page 18.

3. All target and distribution libraries listed have the following attributes:

- The default name of the data set may be changed.
- The default block size of the data set may be changed.
- The data set may be merged with another data set that has equivalent characteristics.
- The data set may be either a PDS or a PDSE.

4. All target libraries listed have the following attributes:

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

5. All target libraries listed which contain load modules have the following attributes:

- The data set may be in the LPA.
- It is not required for the data set to be in the LPA.
- The data set may be in the LNKLST.
- It is not required for the data set to be APF-authorized.

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

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

Figure 10. Storage Requirements for IMS HP Load 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
SHPSBASE	Sample	ANY	S	PDS	FB	80	30	35
SHPSJCL0	Sample	ANY	S	PDS	FB	80	40	20
SHPSMAC0	Macro	ANY	S	PDS	FB	80	70	60
SHPSLMD0	LMOD	ANY	S	PDS	U	0	230	200
SHPSSAMP	Sample	ANY	S	PDS	FB	80	70	60

Figure 11. Storage Requirements for IMS HP Load 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
AHPSJCL0	S	PDS	FB	80	70	60
AHPSMAC0	S	PDS	FB	80	70	60
AHPSMOD0	S	PDS	U	0	230	200
AHPSSAMP	S	PDS	FB	80	70	60

5.3 FMIDs Deleted

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

If you do not wish to delete these FMIDs at this time, you must install IMS HP Load 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

IMS HP Load has no special considerations for the target system.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of IMS HP Load.

Please note the following:

- If you want to install IMS HP Load 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 IMS HP Load

6.1.1 SMP/E Considerations for Installing IMS HP Load

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

6.1.2 SMP/E Options Subentry Values

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

SUB-ENTRY	Value	Comment
DSSPACE	(200,200,500)	3390 DASD tracks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

Figure 12. SMP/E Options Subentry Values

6.1.3 SMP/E CALLLIBS Processing

IMS HP Load uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When IMS HP Load is installed, ensure that DDDEFs exist for the following libraries:

- SCEELKED

Note: The DDDEFs above are used only to resolve the link-edit for IMS HP Load using CALLLIBS. These data sets are not updated during the installation of IMS HP Load.

6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install IMS HP Load:

Job Name	Job Type	Description	RELFILE
FABFCSI	SMP/E	Sample job to allocate and initialize a new SMP/E CSI data set **(Optional)**	IBM.H1IM210.F1
FABFCSID	SMP/E	Sample job to allocate SMP/E data sets **(Optional)**	IBM.H1IM210.F1
FABFRECV	RECEIVE	Sample RECEIVE job	IBM.H1IM210.F1
FABFALLC	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.H1IM210.F1
FABFDDEF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.H1IM210.F1
FABFAPPL	APPLY	Sample APPLY job	IBM.H1IM210.F1
FABFACCP	ACCEPT	Sample ACCEPT job	IBM.H1IM210.F1

Figure 13. Sample Installation Jobs

You can access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 13 to find the appropriate relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1    EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//**********************************************************
//* If you wish to create a new global zone do not run the   *
//* RCVPDO job supplied with CBPDO.  RCVPDO assumes that     *
//* you will be installing into an existing global zone.     *
//* Make the //TAPEIN DD statement below active if you install*
//* from a CBPDO tape by uncommenting the DD statement below. *
//**********************************************************
//*TAPEIN   DD DSN=IBM.H1IM210.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.H1IM210.F1,UNIT=tunit,
//*          VOL=SER=1IM210,LABEL=(2,SL),
//*          DISP=(OLD,KEEP)
//**************************************************************
//* Make the //FILEIN DD statement below active for           *
//* downloaded DASD files.                                     *
//**************************************************************
//*FILEIN    DD DSN=IBM.H1IM210.F1,UNIT=SYSALLDA,DISP=SHR,
//*          VOL=SER=filevol
//OUT       DD DSNAME=jcl-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
/*
```

In the sample above, update the statements as noted below:

> If using TAPEIN:
>> **tunit** is the unit address where the product tape is mounted
>> **volser** is the volume serial matching the product tape
>> **x** is the tape file number where the data set name is on the tape
>> Refer to the documentation provided by CBPDO to see where IBM.H1IM210.F1 is on the tape.
> If using 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 will be stored
>> **dasdvol** is the volume serial of the DASD device where the output data set will reside
> SYSIN
>> **xxxxIN** is either TAPEIN or FILEIN depending on your input DD statement.

You can also access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 13 on page 16 to find the appropriate relfile data set.

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 FABFCSI to allocate the SMP/E data set for IMS HP Load.

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)

Edit and submit sample job FABFCSID to initialize SMP/E zones for IMS HP Load. 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

Note: If you obtained IMS HP Load as part of a CBPDO, use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the IMS HP Load FMIDs as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

You can also choose to edit and submit sample job FABFRECV to perform the SMP/E RECEIVE for IMS HP Load. 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 FABFALLC to allocate the SMP/E target and distribution libraries for IMS HP Load. 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 FABFDDEF to create DDDEF entries for the SMP/E target and distribution libraries for IMS HP Load. 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

Edit and submit sample job FABFAPPL to perform an SMP/E APPLY CHECK for IMS HP Load. Consult the instructions in the sample job for more information.

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

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

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

Expected Return Codes and Messages 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 Execute the Installation Verification Program IMS HP Load

Edit and submit member FABFIVP in the SHPSJCL0 library to run the IVP for IMS HP Load. Consult the instructions in the job for more information.

Note: If you are JES3 user, Edit and submit member FABFIVP0 in the SHPSJCL0 library before executing FABFIVP.

Expected Return Codes and Messages from IVP: You will receive a return code of 0 if this job runs correctly except for the following step:

```
  DDLHDAMA : RC=01. This can be ignored
```

6.1.12 Perform SMP/E ACCEPT

Edit and submit sample job FABFACCP to perform an SMP/E ACCEPT CHECK for IMS HP Load. Consult the instructions in the sample job for more information.

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

Before using SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. This will cause entries produced from JCLIN to be saved in the

distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

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

Note: The GROUPEXTEND operand indicates that SMP/E accept 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 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.

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

6.1.13 Run REPORT CROSSZONE

The SMP/E REPORT CROSSZONE command will identify requisites defined for products that have been installed in separate zones. This command will also create APPLY and ACCEPT commands in the SMPPUNCH data set which you can use to install those cross-zone requisites it identifies.

After you have installed IMS HP Load, 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 describing all the target and distribution libraries to be reported on.

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

6.2 Activating IMS HP Load

The publication *IMS HP Load User's Guide, SC18-9222* contains the step-by-step procedures to activate the functions of IMS HP Load.

7.0 Notices

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Program Directory for IBM IMS High Performance Load for z/OS, November 2009

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