



**Program Directory for
IBM SystemView
Host Management Facilities/VM**

Release 1.1

Program Number 5684-157

for Use with
VM/ESA Release 1.5 370 Feature
VM/ESA Release 2.2
VM/ESA Version 2 Release 1.0

Document Date: January 1996

xxxx-yyyy-zz

Note!

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

This program directory, dated January 1996, applies to IBM SystemView Host Management Facilities/VM Release 1.1 (HMF), Program Number 5684-157 for the following:

COMPIDs	Feature Numbers	System Name
568415700	5870	VM/ESA
	5871	
	5872	
	5874	
568415710	5767	OS/2

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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* SystemView* Host Management Facilities/VM (HMF). You should read all of it before installing the program and then keep this document for future reference.

The program directory contains the following sections:

- 2.0, "Program Materials" on page 2 identifies the basic and optional program materials and documentation for HMF.
- 3.0, "Program Support" on page 6 describes the IBM support available for HMF.
- 4.0, "Program and Service Level Information" on page 7 lists the APARs (program level) and PTFs (service level) incorporated into HMF.
- 5.0, "Installation Requirements and Considerations" on page 8 identifies the resources and considerations for installing and using HMF.
- 6.0, "Installation Instructions" on page 15 provides detailed installation instructions for HMF.
- 7.0, "Service Instructions" on page 36 provides detailed servicing instructions for HMF.
- Appendix A, "Installation and Service Verification Testing" on page 44 provides information to help you verify that HMF has been correctly installed or serviced on your system.
- Appendix B, "Migration Considerations" on page 48 identifies migration considerations when migrating from a previous release of HMF.
- Appendix C, "Additional PPF Override Information" on page 54 provides information about using VMSES/E PPF override files.

Before installing HMF, read 3.1, "Preventive Service Planning" on page 6. This section tells you how to find any updates to the information and procedures in this program directory.

1.1 Program Description

HMF is a productivity aid for system programmers and operators in the VM/ESA* environment that provides function for actively monitoring and controlling subsystems and applications, scheduling and synchronizing system events, and managing system performance. HMF complements the function of other IBM performance products and automated operations programs, and conforms to SystemView Integration Level 1.

2.0 Program Materials

An IBM program is identified by a program number. The program number for HMF is 5684-157.

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

The following sections identify:

- The basic and optional program materials available with this program.
- Publications useful during installation.

2.1 Basic Machine-Readable Material

The distribution medium for this program is 9-track magnetic tapes (written at either 1600 or 6250 BPI), a 3480 cartridge, or a 1/4-inch tape cartridge. The tape or cartridge contains all the programs and data needed for installation. See 6.0, "Installation Instructions" on page 15 for more information about how to install the program. Figure 1 describes the tape or cartridge. Figure 2 describes the file content of the program tape or cartridge.

Figure 1. Basic Material: Program Tape

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
5870	1600 bpi tape	01	HMF Release 1.1	Host Code 1of1
5871	6250 bpi tape	01	HMF Release 1.1	Host Code 1of1
5872	3480 cart.	01	HMF Release 1.1	Host Code 1of1
5874	1/4 in. cart.	01	HMF Release 1.1	Host Code 1of1

Figure 2 (Page 1 of 2). Program Tape: File Content

Tape File	Content
1	Tape Header
2	Tape Header
3	Product Header
4	Product Memo
5	Service Apply Lists

Figure 2 (Page 2 of 2). Program Tape: File Content

Tape File	Content
6	PTFPARTs
7	HMF Service
8	HMF Service
9	HMF Privileged User Files
10	HMF General User Files
11	HMF HELP Files
12	HMF On-line Documentation
13	HMF Base Files

2.2 Optional Machine-Readable Material

The Host Management Facilities/VM Workstation Interface Code is available as optional machine-readable material, and is distributed on 3.5-inch and 5.25-inch diskettes. Figure 3 describes the program diskettes. Figure 4 describes the file content of the program diskettes.

Note: The optional machine-readable material (diskettes) contains “Restricted Materials of IBM.”

See the *SystemView Host Management Facilities/VM User's Guide and Reference* for information on how to install the HMF Workstation Interface.

Figure 3. Optional Material: Host Management Facilities/VM Workstation Interface Code

Feature Number	Medium	Physical Volume	Diskette Content	External Label
5767	3.5-in. Diskette (1.44 Mb)	01	HMF Release 1.1 Work Station Code	Workstatn Code 1of1
5767	5.25-in. Diskette (1.2 Mb)	01	HMF Release 1.1 Work Station Code	Workstatn Code 1of1

Figure 4. Program Diskette: File Content

Diskette File	Content
-	Installation code
-	Sample/tailorable files
-	Base product files

2.3 Program Publications

The following sections identify the basic and optional publications for HMF.

2.3.1 Basic Program Publications

One copy of the following publication is included when you order the basic materials for HMF. For additional copies, contact your IBM representative.

Figure 5. Basic Material: Unlicensed Publications

Publication Title	Form Number
SystemView Host Management Facilities/VM Licensed Program Specifications	GC24-5611
SystemView Host Management Facilities/VM General Information	GC24-5612
SystemView Host Management Facilities/VM Planning and Tailoring Guide	SC24-5614
SystemView Host Management Facilities/VM User's Guide and Reference	SC24-5615
SystemView Host Management Facilities/VM Messages and Codes	SC24-5616

2.3.2 Optional Program Publications

There are no optional publications for HMF.

2.4 Microfiche Support

There is no microfiche for HMF.

2.5 Publications Useful During Installation/Service

The publications listed in Figure 6 may be useful during the HMF installation and service processes. To order copies, contact your IBM representative.

Figure 6 (Page 1 of 2). Publications Useful During Installation

Publication Title	Form Number
VMSES/E Introduction and Reference	SC24-5444
VMSES/E 370 Feature Introduction and Reference for Licensed Products	SC24-5659
VM/ESA Service Guide	SC24-5527
VM/ESA CMS Command Reference	SC24-5461
VM/ESA CP Planning and Administration	SC24-5521
VM/ESA SFS and CRR Planning, Administration, and Operation	SC24-5649

Figure 6 (Page 2 of 2). Publications Useful During Installation

Publication Title	Form Number
VM/ESA System Messages and Codes	SC24-5529

3.0 Program Support

This section describes the IBM support available for HMF.

3.1 Preventive Service Planning

Before installing HMF, check with your IBM Support Center or use either Information/Access or IBMLink (ServiceLink) to see whether additional Preventive Service Planning (PSP) information is available. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 7. PSP Upgrade and Subset ID

Retain			
COMPID	Release	Upgrade	Subset
568415700	111	HMF	HOST111
568415710	111	HMF	WRKSTN111

If you have received HMF only from IBM Software Distribution, before installing HMF, you should also check with your IBM Support Center or use either Information/Access or SoftwareXcel Extended to see if there is additional PSP information that you should know.

3.2 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 8 identifies the component ID (COMPID), Retain Release and Field Engineering Service Number (FESN) for HMF.

Figure 8. Component IDs

Retain			
COMPID	Release	Component Name	FESN
568415700	111	Host Management Facilities/VM	0463841
568415710	111	Host Management Facilities/VM Workstation Interface	0964386

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of HMF Release 1.1. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs included. Information about the cumulative service tape is also provided.

4.1 Program Level Information

The following APAR fixes against previous releases of HMF have been incorporated into this release:

VM56790

4.2 Service Level Information

This is the initial release of HMF Release 1.1 and there are no PTFs.

4.3 Cumulative Service Tape

There is no cumulative service tape for HMF Release 1.1.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating HMF.

5.1 System Requirements

This section describes the system environment required to install HMF.

5.1.1 Programming Requirements

See the *SystemView Host Management Facilities/VM Licensed Program Specifications* for detailed information about HMF programming requirements.

5.2 DASD Storage and User ID Requirements

Figure 9 on pages 9 through 11 lists the user IDs and minidisks necessary to install and service HMF. This table is provided for planning your DASD storage requirements for the installation of HMF. If you plan to install HMF using SFS directories, the names of the directories you'll need are listed in Figure 22 on page 55. You'll create these user IDs and minidisks or SFS directories during the installation process.

Important Installation Notes:

- The HMF installation user ID, other product user IDs, and minidisks will be defined in 6.2.1, "Plan Your Installation" on page 16. These user IDs are briefly described here so you can get an idea of how they're used prior to allocating resources for them.
- If you choose to change the names or any other attributes of these user IDs, you'll need to create a Product Parameter File (PPF) override. This can be done in 6.2.1, "Plan Your Installation," step 6.

Note: If you choose to install Host Management Facilities on a common user ID, the default minidisk addresses for HMF may already be defined. If any of the default addresses required by HMF are already in use, you'll need to create a PPF override to change the default minidisk addresses for HMF so they are unique. The use of CMS Shared File System (SFS) directories may also help reduce or avoid minidisk address conflicts.

- The P684157A user ID is required for installing and applying service to HMF. This user ID name is based on HMF Release 1.1's product ID, with "P" substituted for the first character. This is the IBM default user ID name, although it can be changed by creating a PPF override.
- The HMFSEVERE user ID is used to define an HMF server which provides the majority of the function provided by HMF. This server runs the ACVSEVERE program and can be configured to handle various system, personal, and performance management tasks.

- The HRM user ID is used to define a server which is used as an HMF resource manager. This server runs the ACVVMHRM program, and allows programs to communicate with HMFSEVERE servers through the Common Programming Interface (CPI) Communications method.

The HRM user ID is required if you intend to use the HMF Workstation Interface or when CPI Communications will be used to communicate with HMF servers. If you won't be using either of these facilities, this user ID should be deleted via a PPF override.

- HMFSEVERE and HRM are default product user IDs that can also be changed. If you choose to change the names of these server user IDs or modify their attributes, this should be done via a PPF override as well.
- You can find detailed information about the HMFSEVERE and HRM servers in the *SystemView Host Management Facilities/VM Planning and Tailoring Guide*.

Figure 9 (Page 1 of 3). DASD Storage Requirements for Target Minidisks

Owner User ID	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			
P684157A	2B2	9345 3390 3380 3375 3350	9 8 9 15 12	10800	1350	Contains all base code shipped with HMF (other than HELP files)
P684157A	2C2	9345 3390 3380 3375 3350	1 1 1 2 2	1200	150	Contains sample files and user local modifications for HMF
P684157A	2D2	9345 3390 3380 3375 3350	20 17 20 32 25	24000	3000	Contains serviced files
P684157A	2A6	9345 3390 3380 3375 3350	2 2 2 4 3	2400	300	Contains the AUX files and version vector table that represent your test level of HMF

Notes:

1. Cylinder values defined in this table are based on a 4K block size. FB-512 and SFS block values are derived from the 3380 cylinder values in this table.
2. Before allocating minidisks denoted with an asterisk (*), be sure you have reviewed the information in 5.3.2, "Program Installation/Service Considerations" and 5.3.3, "User ID Directory Considerations."

Figure 9 (Page 2 of 3). DASD Storage Requirements for Target Minidisks

Owner User ID	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			
P684157A	2A2	9345 3390 3380 3375 3350	2 2 2 4 3	2400	300	Contains AUX file and version vector table that represent your production level of HMF
P684157A	3E0 (*)	9345 3390 3380 3375 3350	9 8 9 14 11	10400	1300	Production build minidisk (Privileged use)
MAINT	19E (*)	9345 3390 3380 3375 3350	4 4 4 7 5	4800	600	Production build minidisk (General use)
MAINT	19D	9345 3390 3380 3375 3350	8 7 8 13 10	9600	1200	Production HELP files
P684157A	3E1 (*)	9345 3390 3380 3375 3350	9 8 9 14 11	10400	1300	Test build minidisk (Privileged use)
P684157A	3E2 (*)	9345 3390 3380 3375 3350	4 4 4 7 5	4800	600	Test build minidisk (General use)
P684157A	29D	9345 3390 3380 3375 3350	8 7 8 13 10	9600	1200	Test build minidisk (HELP files)

Notes:

1. Cylinder values defined in this table are based on a 4K block size. FB-512 and SFS block values are derived from the 3380 cylinder values in this table.
2. Before allocating minidisks denoted with an asterisk (*), be sure you have reviewed the information in 5.3.2, "Program Installation/Service Considerations" and 5.3.3, "User ID Directory Considerations."

Figure 9 (Page 3 of 3). DASD Storage Requirements for Target Minidisks

Owner User ID	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			
P684157A	D0C	9345 3390 3380 3375 3350	6 5 6 10 8	7200	900	Softcopy publications
P684157A	191	9345 3390 3380 3375 3350	10 9 10 16 13	12000	1500	P684157A 191 work minidisk
HMFserve	191 (*)	9345 3390 3380 3375 3350	5 5 5 8 7	6000	750	HMFserve server 191 work minidisk
HRM	191 (*)	9345 3390 3380 3375 3350	2 2 2 4 3	2400	300	HRM server 191 work minidisk
Notes: 1. Cylinder values defined in this table are based on a 4K block size. FB-512 and SFS block values are derived from the 3380 cylinder values in this table. 2. Before allocating minidisks denoted with an asterisk (*), be sure you have reviewed the information in 5.3.2, "Program Installation/Service Considerations" and 5.3.3, "User ID Directory Considerations."						

5.3 Program Considerations

The following sections list the programming considerations for installing HMF and activating its functions.

5.3.1 Operating System Requirements

Use VMSES/E when installing and servicing this program on the following VM platforms:

- VM/ESA Version 2 Release 1.0
- VM/ESA Release 2.2
- VM/ESA Release 1.5 370 Feature

5.3.2 Program Installation/Service Considerations

This section describes items that should be considered before you install or service HMF.

- VMSES/E is required to install and service this product.
- If multiple users install and maintain licensed products on your system, you may encounter problems when trying to access the System Software Inventory minidisk (MAINT 51D) in write mode. If this is the case, you may be able to avoid such contention by using the CMS Shared File System (SFS) to maintain the Software Inventory, instead of a minidisk. See the *VMSES/E Introduction and Reference* (SC24-5444), section 'Changing the Software Inventory to an SFS Directory', for information on how to make this change.
- If you have an IBM (or equivalent) CMS REXX compiler available on your system, it's recommended that you compile the REXX EXEC and XEDIT components of HMF, to improve the overall performance of these files. See 6.2.5, "Compile EXEC and XEDIT Files (Optional)" on page 27 for more information about compiling HMF REXX components.

If you intend to compile the HMF EXEC and XEDIT components, you'll need to increase the amount of space allocated for the test build minidisks (P684157A 3E1 and 3E2) and their corresponding production minidisks (P684157A 3E0 and MAINT 19E). Doing so will allow both compiled and uncompiled files to be maintained on these minidisks. Figure 12 on page 27 provides estimates for how much additional space should be allocated for these minidisks for this purpose; however, the actual amount of space required will depend on the REXX compiler and compiler options you use.

Note: If you compile EXEC and XEDIT components when you install HMF, you'll need to recompile any such components that are affected by service as well.

5.3.3 User ID Directory Considerations

This section explains the need for various user directory control statements supplied in the 5684157A PRODPART file, which is used to create the 5684157A PLANINFO file in 6.2.1, "Plan Your Installation" on page 16. If any directory or resource allocation changes are necessary based on this information, these changes should be made during 6.2.2, "Allocate Resources for Installing HMF" on page 19, when the user directory entries are created.

- For the HMFserve user ID:

- Sufficient CP command classes should be specified to allow for the functions that a HMFserve server is to perform. At a minimum, you should assign class B privileges (in addition to class G privileges) so that HMFserve can use the CP MSGNOH and CP (X)AUTOLOG commands.

If you intend to use the HMFserve as a performance supervisor, you will also need to assign class D and E privileges, so that certain CP or performance monitor application commands and options can be used.

Other privilege classes may be needed, depending on your intended use.

- The IUCV entry is needed to allow users to communicate with HMFserve using the IUCV interface. This entry should not be deleted.
- An HMFserve server must have a minidisk (191) or SFS directory accessed in WRITE mode as file mode A.
- The size of the HMFserve 191 minidisk (or SFS block allocation) may need to be adjusted to meet the needs of your installation, based on how extensively the HMF server is utilized. Adjustments to the virtual storage size for the HMFserve server may be required for this reason as well.

For example, the space allocated for the HMFserve 191 minidisk in Figure 9 on page 9 will allow for approximately 5,000 personal events to be maintained by the server (assuming that one cylinder of this minidisk is used for other purposes). The minimum virtual storage size indicated in the 5684157A PLANINFO file will accommodate twice as many personal events.

Note that up to 99,999 personal events can be maintained by an HMFserve server. If you anticipate the need to accommodate more than 5,000 personal events, adjust the HMFserve 191 minidisk (or SFS block allocation) and virtual storage sizes as follows:

1. Increase the virtual storage size by one megabyte (1M) for every 5,000 personal events.
2. Increase the DASD or SFS block allocation by 125 4K-blocks for every 1,000 personal events.

- For the HRM user ID:

- The IUCV entries are needed to allow end-user and HMFserve server communications using the IUCV interface. These entries should not be deleted.
- An HRM server must have a minidisk (191) or SFS directory accessed in WRITE mode as file mode A.
- If you are not using CPI Communications to communicate with HMF servers, the HRM user ID is not required.

5.3.4 End-user Virtual Machine Requirements

This section describes the directory entry requirements for virtual machines that provide end-user access to the various HMF components.

To allow the use of components such as the HMF event scheduling or performance monitoring dialogs—ACVEVENT and ACVPERF—via the 3270 panel interface, the appropriate production minidisks, as indicated below, must be linked and accessed. See the *SystemView Host Management Facilities/VM User's Guide and Reference* for more information about the ACVEVENT and ACVPERF dialogs.

The sample directory definition in Figure 10 illustrates the HMF-specific requirements for an end-user virtual machine. With this type of directory entry, an end-user will be able to access the event scheduling dialogs (ACVEVENT) and other general-use HMF commands.

```
USER userid password 8M 12M G
ACCOUNT acctnum distcode
IPL CMS
CONSOLE 009 3215 T
SPOOL 00C 2540 READER *
SPOOL 00D 2540 PUNCH D
SPOOL 00E 1403 A
:
LINK MAINT 19E 19E RR pr
LINK MAINT 19D 19D RR pr
LINK P684157A D0C D0C RR pr
:
MDISK 191 3380 cyl cyls volser
:
```

Figure 10. Sample Directory Entry. This is the minimum configuration for an end-user virtual machine.

For an end-user to be able to access the HMF performance monitoring dialogs (ACVPERF) or privileged-use files, the following LINK statement must be added to the sample directory entry in Figure 10, so that the privileged user production minidisk is available:

```
LINK P684157A 3E0 3E0 RR pr
```

See the *SystemView Host Management Facilities/VM Planning and Tailoring Guide* and *SystemView Host Management Facilities/VM User's Guide and Reference* for information about specific requirements regarding the ACVEVENT and ACVPERF dialogs.

Note: See Appendix A of the *SystemView Host Management Facilities/VM User's Guide and Reference* for information on how to install the HMF Workstation Interface.

If you use specific user IDs for testing purposes, you'll need to include the following LINK statements in the directory entries for those user IDs, in addition to those previously indicated:

```
LINK P684157A 3E1 3E1 RR pr
LINK P684157A 3E2 3E2 RR pr
```

Doing so will allow these user IDs to access the privileged use (3E1) and general use (3E2) test build minidisks when necessary.

6.0 Installation Instructions

This chapter describes the installation process and provides step-by-step procedures to install and activate HMF.

The step-by-step procedures that follow are in two column format. The steps to be performed are in bold large numbers. The commands associated with these steps are on the left hand side of the page in bold print; additional information for a command may exist to the right of that command.

Each step of these installation instructions must be followed. Do not skip any step unless directed otherwise.

Throughout these instructions, the use of IBM-supplied default minidisk addresses and user IDs is assumed. If you use different user IDs, minidisk addresses, or SFS directories to install HMF, adapt these instructions as needed for your environment.

Note!

The sample console output presented throughout these instructions was produced on a VM/ESA Release 2.1 system. If you're installing HMF on a different VM/ESA system, the results obtained for some commands may differ from those depicted here.

6.1 VMSES/E Installation Process Overview

The following is a brief description of the main steps in installing HMF using VMSES/E.

- Planning Your Installation

The VMFINS command is used to load several VMSES/E files from the product tape and to obtain HMF resource requirements.

- Allocating Resources

The information obtained from the previous step is used to allocate the appropriate minidisks (or SFS directories) and user IDs needed to install and use HMF.

- Installing the HMF Product

The VMFINS command is used to load the HMF product files from tape to the test BUILD and BASE minidisks. VMFINS is then used to update the VM SYSBLDS file used by VMSES/E for software management.

- Performing Post-installation Tasks

Information about file tailoring and initial activation of the program is presented in 6.3, "Post Installation" on page 28.

- Placing the HMF Files into Production

Once the product files have been tailored and the operation of HMF is satisfactory, the product files are copied from the test BUILD minidisks to production minidisks, and the appropriate CMS Named Saved System (NSS) or Discontiguous Saved Segments (DCSS), etc., are saved.

6.2 Installation of Host Management Facilities with VMFINS (VMSES/E)

The VMFINS EXEC will be used to install HMF. This exec is supplied as part of the VMSES/E component of VM/ESA and provides a consistent process for installing VM/ESA and Licensed Program Products (LPs).

For a complete description of the VMFINS EXEC and its options, refer to:

- *VMSES/E Introduction and Reference* (SC24-5444)

OR

- *VMSES/E 370 Feature Introduction and Reference for Licensed Products* (SC24-5659)

The "Install Scenarios" chapter illustrates how various VMFINS operands and options are used.

6.2.1 Plan Your Installation

The VMFINS command will be used to help you plan for the installation of HMF. This process will:

1. load the first tape file, that contains several VMSES/E control files
2. generate a 5684157A PLANINFO file that lists:
 - all user ID and minidisk requirements
 - required products

To obtain planning information for your environment:

- 1** Log on as the HMF installation planner.

This user ID can be any ID that has read access to the MAINT 5E5 minidisk (or the SESELPS EE5 minidisk, if installing on VM/ESA Release 1.0 370 Feature) and write access to the MAINT (or SESELPS) 51D minidisk.

For VM/ESA Release 1.0 370 Feature systems, the installation planning user ID must have an OPTION ECMODE statement in its directory entry, so that the SESELPS EE5 minidisk can be linked.

- 2** Mount the HMF installation tape and attach it to this user ID at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.
- 3** Establish read access to the VMSES/E code.

cp link maint 5e5 5e5 rr *password*
access 5e5 b

Note: If you're installing on VM/ESA Release 1.0 370 Feature, link and access the **SESELPS EE5** minidisk instead.

The 5E5 or EE5 minidisk is where VMSES/E resides.

4 Establish write access to the Software Inventory minidisk if it's not already linked R/W.

cp link maint 51d 51d mr *password*
access 51d d

If you're installing on VM/ESA Release 1.0 370 Feature, link and access the **SESELPS 51D** minidisk instead.

The MAINT 51D minidisk is where the VMSES/E system-level Software Inventory and other product dependent files reside.

Note: If another user already has the MAINT 51D minidisk (SESELPS 51D for VM/ESA Release 1.0 370 Feature) linked in write mode (R/W), you'll obtain only read access (R/O) to this minidisk. If this occurs, you'll need to have that user re-link the 51D minidisk in read-only mode (RR), and then re-issue the above LINK and ACCESS commands. Do not continue with these procedures until a R/W link is established to the 51D minidisk.

5 Load HMF specific files to the 51D minidisk.

vmfins install info (nomemo

The NOMEMO option will load the memos from the tape but will not issue a prompt to send them to the system printer. Specify the MEMO option if you want to be prompted for printing the memo.

This command will perform the following:

- load the Memo-to-Users
- load various product control files, including the Product Parameter File (PPF) and PRODPART files
- create the VMFINS PRODLIST on your A-disk. The VMFINS PRODLIST contains a list of products on the installation tape.

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS1909I VMFINS PRODLIST created on your A-disk
VMFINS2760I VMFINS processing completed successfully
Ready;
```

6 Obtain resource planning information for HMF.

Notes:

- a. HMF will **not** be loaded by the VMFINS command at this time.
- b. If HMF is being installed on either VM/ESA Release 1.1 or VM/ESA Release 1.0 370 Feature, you'll need to use the **PROD** keyword instead of the **PPF** keyword with the following VMFINS command *IF* you want to have the opportunity to change the installation defaults.

vmfins install ppf 5684157a {hmfins|hmfisfs} (plan nomemo

Use **hmfins** if you're installing using minidisks; use **hmfisfs** if you're installing using SFS directories.

The PLAN option indicates that you want VMFINS to perform requisite checking, plan system resources, and provide an opportunity to override the defaults in the product parameter file.

You can override the following:

- the name of the product parameter file (PPF)
- the default user IDs
- minidisk or SFS directory definitions

Notes

- If you change the PPF name, a default user ID, or other parameters via a PPF override, you'll need to use your changed values instead of those indicated (when appropriate), throughout the rest of these installation instructions, as well as those provided for servicing HMF. For example, you'll need to specify your PPF override file name instead of 5684157A for certain VMSES/E commands. For more information about using PPF override files during HMF installation and service, see Appendix C, "Additional PPF Override Information" on page 54.
- If you're not familiar with creating PPF overrides using VMFINS, you should review the 'Using the Make Override Panel' section in Chapter 3 of the *VMSES/E Introduction and Reference* before you continue.

```

VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5684157A HMFINS :PRODID
5684157A%HMFINS?
Enter 0 (No), 1 (Yes) or 2 (Exit)

```

0

Enter 0 to bypass creating an override.

Enter 1 to create an override to change the default installation user ID, change the name of the PPF, and/or change the minidisk/directory definitions.

Enter 2 to exit the VMFINS exec.

```

VMFINS2603I Processing product :PPF 5684157A HMFINS :PRODID 5684157A%HMFINS
VMFREQ1909I 5684157A PLANINFO created on your A-disk
VMFREQ2805I Product :PPF 5684157A HMFINS :PRODID 5684157A%HMFINS has passed
requisite checking
VMFINT2603I Planning for the installation of product :PPF 5684157A HMFINS
:PRODID 5684157A%HMFINS
VMFRMT2760I VMFRMT processing started
VMFRMT2760I VMFRMT processing completed successfully
VMFINS2760I VMFINS processing completed successfully
Ready;

```

- 7** Review the install message log (\$VMFINS \$MSGLOG) using the VMFVIEW command. If necessary, correct any problems before going on. For information about handling specific messages, see *VM/ESA System Messages and Codes* or use on-line HELP.

vmfview install

6.2.2 Allocate Resources for Installing HMF

Use the planning information in the 5684157A PLANINFO (created in 6.2.1, "Plan Your Installation" on page 16) to create the following user ID directories, if they don't exist:

- P684157A
- HMFserve
- HRM

You'll then place the new directories on-line.

To begin resource allocation for your environment:

- 1** Obtain the directory entries for the above user IDs from the 5684157A PLANINFO file.

Note: The user directory entries are located at the bottom of the PLANINFO file; these entries will contain all of the links and privilege classes necessary for these user IDs.

- 2** If you're installing HMF using minidisks, add the MDISK statements to the directory entry for P684157A. Use Figure 9 on page 9 to obtain the minidisk requirements.

- 3** If you're installing HMF with SFS directories, you'll need to do the following:

- a** Determine the number of 4K blocks that are required for the SFS directories you'll use.

If you intend to use all of the default HMF SFS directories, the 4K block requirements for each HMF user ID are summarized in Figure 11.

Figure 11. SFS 4K Block Summary

User ID	SFS 4K Blocks Required
P684157A	10,600 (excluding production directories)
	13,700 (including production directories)
HMFserve	750
HRM	300

If you intend to use only some of these SFS directories, refer to the 5684157A PLANINFO file or Figure 9 on page 9, and add up the 4K blocks required for each SFS directory you plan to use. This will give you the total number of 4K blocks required.

This information will be used when enrolling the P684157A, HMFserve and HRM user IDs in the VMSYS filepool.

Note: You may need to adjust the block values associated with the HMFserve user ID. See 5.3.3, "User ID Directory Considerations" on page 12 for more information about why this may be necessary.

- b** Enroll the P684157A, HMFserve and HRM user IDs in the VMSYS filepool by using the ENROLL USER command:

```
ENROLL USER userid VMSYS (BLOCKS blocks)
```

where *userid* is the actual user ID to be enrolled and *blocks* is the number of 4K blocks that you calculated in the previous step.

Note: This must be done from a user ID that is an administrator for the VMSYS filepool.

- c** Determine if there are enough blocks available in the filepool to install HMF. This information can be obtained by using the `QUERY FILEPOOL STATUS` command. Near the end of the output from this command is a list of minidisks in the filepool and the number of blocks free. If the number of available blocks is smaller than the total available 4K blocks needed to install HMF, you'll need to add space to the filepool. See the *VM/ESA SFS and CRR Planning, Administration, and Operation* manual for information on adding space to a filepool.
- d** Create the necessary subdirectories listed in the 5684157A PLANINFO file using the `CREATE DIRECTORY` command.

set filepool vmsys:
create directory *dirid*

dirid is the name of the SFS directory you're creating, such as:

```
CREATE DIRECTORY .HMF
CREATE DIRECTORY .HMF.BASE
```

If necessary, see the *VM/ESA CMS Command Reference* for more information about the `CREATE DIRECTORY` command.

A complete list of default HMF SFS directories is provided in Figure 22 on page 55.

Note: Subdirectories, when required, must be created from the respective user IDs.

- e** Give the **MAINT** user ID READ authority to the general-use and HELP test build directories, using the `GRANT AUTHORITY` command.

grant auth vmsys:p684157a.hmf.buildcmn to maint (read newread

grant auth vmsys:p684157a.hmf.helpame to maint (read newread

If necessary, see the *VM/ESA CMS Command Reference* for more information about the `GRANT AUTHORITY` command.

- f** Give READ authority to those user IDs that require access to HMF privileged-use files:

grant auth vmsys:p684157a.hmf.buildcmn to privuser (read newread

privuser is the user ID of an HMF server (such as HMFSEVER or HRM) or a privileged HMF end user.

- g** If you intend to use an SFS directory as the work space for an HMF server, include the following IPL control statement in the server directory entry:

```
IPL CMS PARM FILEPOOL VMSYS
```

This will cause CMS to automatically access that server's top directory as file mode A.

- 4** If you're installing HMF on a VM/ESA 370 Feature system, the following directory entry changes must be made:

- For the P684157A directory entry:
 - Add an `OPTION ECMODE` statement prior to the `CONSOLE` statement.
 - (VM/ESA Release 1.0 370 Feature systems only)
Modify the `LINK` statements for the `MAINT 5E5` and `51D` minidisks so that the `SESELPS EE5` and `51D` minidisks are linked instead.
- For the HMFSEVER directory entry:
 - Add an `OPTION ECMODE` statement prior to the `CONSOLE` statement.

- 5** Add all of the user ID directories to the system directory.

- 6** Change the passwords for all added user IDs from `xxxxx` to valid passwords, in accordance with your security guidelines.

- 7** Place the new directories on-line using VM/Directory Maintenance (DIRMAINT) or an equivalent CP directory maintenance method.

Note

All minidisks for the P684157A user ID must be formatted before installing HMF.

6.2.3 Install HMF Using the VMFINS EXEC

- 1** Log on to the installation user ID, P684157A.
- 2** Create a PROFILE EXEC that will contain `ACCESS` commands for the `MAINT 5E5` and `51D` minidisks.

```
xedit profile exec a
====> input /**/
====> input 'ACCESS 5E5 B'
====> input 'ACCESS 51D D'
====> file
```

Note: If you're installing on VM/ESA Release 1.0 370 Feature, specify **EE5** instead of 5E5 for the first ACCESS command.

- 3** Establish write access to the Software Inventory minidisk, if it's not already linked R/W.

```
cp link maint 51d 51d mr password
```

Note: If you're installing on VM/ESA Release 1.0 370 Feature, link and access the **SESELPS 51D** minidisk instead.

The MAINT 51D (SESELPS 51D for VM/ESA Release 1.0 370 Feature) minidisk is where the VMSES/E system-level Software Inventory files reside.

- 4** Execute the profile to access the 5E5 (or EE5) and 51D minidisks.

profile

- 5** Have the HMF installation tape mounted and attached to user ID P684157A at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.

- 6** Install HMF.

Notes:

- a. If you've not yet created a PPF override file (but need to) *and* HMF is being installed on either VM/ESA Release 1.1 or VM/ESA Release 1.0 370 Feature, you'll need to use the **PROD** keyword instead of the **PPF** keyword with the following VMFINS command so that you'll have the opportunity to change the installation defaults.
- b. If you've already created a PPF override file, you should specify your override file name after the **PPF** keyword for the following VMFINS command. The **PROD** keyword should *not* be used in this case.
- c. You may be prompted for additional information during VMFINS INSTALL processing depending on your installation environment. If you're unsure how to respond to a prompt, refer to the "Installing Products with VMFINS" and "Install Scenarios" chapters in the *VMSES/E Introduction and Reference* to decide how to proceed.

vmfins install ppf 5684157a {hmfins|hmfisfs} (nomemo nolinek

Use **hmfins** if you're installing using minidisks; use **hmfisfs** if you're installing using SFS directories.

Note: If you've created your own PPF override file, you should use your PPF name instead of 5684157A.

The NOLINK option is used because the required minidisks are owned by P684157A. VMFINS will not attempt to link to these minidisks, but will access them in the appropriate order.

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5684157A HMFINS :PRODID
5684157A%VMFINS?
Enter 0 (No), 1 (Yes) or 2 (Exit)
```

0

Enter 0 to bypass creating an override.

Enter 1 to create an override, change the PPF name, and change minidisk definitions.

Enter 2 to exit the VMFINS exec.

```

VMFINS2603I Processing product :PPF 5684157A HMFINS :PRODID 5684157A%HMFINS
VMFREQ2805I Product :PPF 5684157A HMFINS :PRODID 5684157A%HMFINS has passed
requisite checking
VMFINT2603I Installing product :PPF 5684157A HMFINS :PRODID 5684157A%HMFINS
VMFSET2760I VMFSETUP processing started
VMFUTL2205I Minidisk|Directory Assignments:
String      Mode  Stat  Vdev  Label/Directory
VMFUTL2205I LOCALMOD E    R/W   2C2   HMF2C2
VMFUTL2205I APPLY    F    R/W   2A6   HMF2A6
VMFUTL2205I          G    R/W   2A2   HMF2A2
VMFUTL2205I DELTA    H    R/W   2D2   HMF2D2
VMFUTL2205I BUILDPRV I    R/W   3E1   HMF3E1
VMFUTL2205I BUILDGMN J    R/W   3E2   HMF3E2
VMFUTL2205I BUILDDOC K    R/W   D0C   HMF00C
VMFUTL2205I BUILDHLP L    R/W   29D   HMF29D
VMFUTL2205I BASE1    M    R/W   2B2   HMF2B2
VMFUTL2205I ----- A    R/W   191   HMF191
VMFUTL2205I ----- B    R/O   5E5   MNT5E5
VMFUTL2205I ----- D    R/W   51D   MNT51D
VMFUTL2205I ----- S    R/O   190   MNT190
VMFUTL2205I ----- Y/S   R/O   19E   MNT19E
VMFSET2760I VMFSETUP processing completed successfully
VMFREC2760I VMFREC processing started
VMFREC1852I Volume 1 of 1 of INS TAPE 9300
VMFREC1851I (1 of 9) VMFRCAXL processing AXLIST
VMFRCX2159I Loading nn part(s) to DELTA 2D2 (H)
VMFREC1851I (2 of 9) VMFRCPTF processing PARTLST
VMFRCX2159I Loading nn part(s) to DELTA 2D2 (H)
:
VMFREC1851I (9 of 9) VMFRCALL processing HMFBASE
VMFRCX2159I Loading part(s) to BASE1 2B2 (M)
VMFRCX2159I Loaded nn part(s) to BASE1 2B2 (M)
VMFREC2760I VMFREC processing completed successfully
VMFINT2603I Product installed
VMFINS2760I VMFINS processing completed successfully
Ready;

```

- 7** Review the install message log (\$VMFINS \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific installation messages, see *VM/ESA System Messages and Codes* or use on-line HELP.

vmfview install

6.2.4 Update Build Status Table for HMF

- 1 Update the VM SYSBLDS Software Inventory file for HMF. This file identifies all products on your system which have been built using VMSES/E.

vmfins build ppf 5684157a {hmfins|hmfisfs} (serviced nolink

Use **hmfins** if you're installing using minidisks; use **hmfisfs** if you're installing using SFS directories.

The SERVICED option will build any parts that were not built on the installation tape (if any) and update the Software Inventory build status table showing that product 5684157A has been built.

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2603I Processing product :PPF 5684157A HMFINS :PRODID 5684157A%HMFINS
VMFREQ2805I Product :PPF 5684157A HMFINS :PRODID 5684157A%HMFINS has passed
requisite checking
VMFINB2603I Building product :PPF 5684157A HMFINS :PRODID 5684157A%HMFINS
VMFSET2760I VMFSETUP processing started
VMFUTL2205I Minidisk|Directory Assignments:
String      Mode  Stat  Vdev  Label/Directory
VMFUTL2205I LOCALMOD E    R/W  2C2   HMF2C2
VMFUTL2205I APPLY    F    R/W  2A6   HMF2A6
VMFUTL2205I          G    R/W  2A2   HMF2A2
VMFUTL2205I DELTA    H    R/W  2D2   HMF2D2
VMFUTL2205I BUILDPRV I    R/W  3E1   HMF3E1
VMFUTL2205I BUILDCMN J    R/W  3E2   HMF3E2
VMFUTL2205I BUILDDOC K    R/W  D0C   HMF00C
VMFUTL2205I BUILDHLP L    R/W  29D   HMF29D
VMFUTL2205I BASE1    M    R/W  2B2   HMF2B2
VMFUTL2205I ----- A    R/W  191   HMF191
VMFUTL2205I ----- B    R/O  5E5   MNT5E5
VMFUTL2205I ----- D    R/W  51D   MNT51D
VMFUTL2205I ----- S    R/O  190   MNT190
VMFUTL2205I ----- Y/S  R/O  19E   MNT19E
VMFSET2760I VMFSETUP processing completed successfully
VMFBLD2760I VMFBLD processing started
VMFBLD1851I Reading build lists
VMFBLD2182I Identifying new build requirements
VMFBLD2182I No new build requirements identified
VMFBLD2179I There are no build requirements matching your request at this time.
No objects will be built
VMFBLD2180I There are 0 build requirements remaining
VMFBLD2760I VMFBLD processing completed successfully
VMFINB2603I Product built
VMFINB2173I No verification exec found for this product
VMFINS2760I VMFINS processing completed successfully
Ready;
```

6.2.5 Compile EXEC and XEDIT Files (Optional)

If you have an IBM (or equivalent) CMS REXX compiler available on your system, it's recommended that you compile the REXX EXEC and XEDIT components of HMF to improve the overall performance of these files. If you intend to compile these files, you should do so at this time, using the appropriate instructions and documentation for your compiler.

Figure 12 provides summary information about the types of HMF EXEC and XEDIT components that can be compiled, where these files reside, and estimates of how much space their compiled counterparts are likely to require. These estimates were determined using the IBM CMS REXX Compiler Release 1.0 (Program Number 5684-124), with the following compiler options:

CEEXEC	NOCOMPILE(E)	NODUMP	FLAG(I)
LINECOUNT(55)	NOOBJECT	NOPRINT	NOSAA
NOSLINE	NOSOURCE	NOTERM	NOTESTHALT
NOXREF			

Notes:

1. The actual amount of space required will depend on the compiler and compiler options you use.
2. The NOPRINT option indicated above prevents compiler listings from being produced. If you compile files so that listings are produced, you'll need to increase these estimates accordingly.
3. Any listings or other compile-related files that you want to maintain should be moved to minidisks other than the test build minidisks; otherwise, these listings will be copied to the production minidisks when HMF is placed into production.

Figure 12. Estimated Space Allocation Changes for REXX Compilation			
Owner User ID	Default Address	Additional SFS 4K Blocks Required	REXX Files to be Compiled
P684157A	3E1	650	Privileged use EXEC and XEDIT non-tailored files
		200	Privileged use tailored files
P684157A	3E0 (+)	650	Production privileged use EXEC and XEDIT non-tailored files
		200	Production privileged use tailored files
P684157A	3E2	700	General use EXEC and XEDIT non-tailored files
MAINT	19E (+)	700	Production general use EXEC and XEDIT non-tailored files
Note: Minidisks denoted with a plus (+) are production minidisks. These minidisks should not be used to provide source files for compilation; they are listed here only to indicate that additional space requirements apply to them.			

A complete list of HMF non-tailorable EXEC and XEDIT files is provided in the ACVRXCMP LIST file. Before you compile any HMF files, you should review the prolog comments within this file, as additional information is provided about warnings or errors that may result when certain EXEC or XEDIT files are compiled. Additional notes about compiling these files follow:

Notes:

1. Only HMF files that reside on the test build minidisks (P684157A 3E1 and 3E2) should be used as source files for compilation.
2. The EXEC and XEDIT files used as source files for compilation (that is, those provided as part of the HMF product) should be preserved in some way before their compiled counterparts are created. One way to accomplish this is to change the file types of the uncompiled EXEC and XEDIT file types to SCEXEC and SCXEDIT, respectively, before these files are compiled.
3. The executable EXEC and XEDIT files that result following compilation must reside on the test build minidisks (P684157A 3E1 and 3E2) before these files are placed into production.

An estimate to allow for compilation of several privileged use tailorable files—the SAMPEXEC and SAMPPSUB files—has been included in Figure 12 on page 27 as well. This estimate will accommodate a reasonable amount of tailoring of these files. However, if you anticipate making any substantial changes to them, this estimate should be adjusted accordingly. Of course, only the tailored production copies of these files should be compiled. A complete list of tailorable files is provided in Figure 15 on page 31.

6.3 Post Installation

After the HMF files have been loaded to the test build minidisks (P684157A 3E1 and 3E2), you should tailor (and in some cases, create) several files before you complete the installation of HMF and place it into production. More information about these requirements is contained in this section.

If you're migrating from a previous release of HMF, you should review Appendix B, “Migration Considerations” on page 48 to find out about changes to the HMF product or modifications that need to be made to your existing HMF files at this time. After you have reviewed this appendix, continue with the information provided in this section.

6.3.1 Create the HMFserve and HRM PROFILE EXEC Files

A suitable PROFILE EXEC must be created for the HMFserve and HRM server user IDs. A sample PROFILE EXEC that illustrates the minimum functional requirements for the HMFserve user ID is shown in Figure 13 on page 29. Likewise, a sample PROFILE EXEC for the HRM user ID is shown in Figure 14 on page 29.

```

/* PROFILE EXEC for the HMFserve server machine ----- (REXX) */
Trace '0'
/*-----*/
/* The access of the test build minidisks (3E1 and 3E2) should */
/* be temporarily enabled when testing newly installed or      */
/* serviced files.                                           */
/*-----*/
/* 'ACCESS 3E1 B' */
/* 'ACCESS 3E2 C' */
'ACCESS 3E0 D'          /* Access the HMF privileged-use */
                        /* production minidisk          */
'NUCXLOAD ACVserve'     /* Load ACVserve as a nucleus extension */
Queue 'ACVserve'        /* Queue command to start the server */
Exit

```

Figure 13. Sample HMFserve PROFILE EXEC File. This is the minimum configuration for an HMFserve server.

```

/* PROFILE EXEC for the HRM server machine ----- (REXX) */
Trace '0'
/*-----*/
/* The access of the test build minidisks (3E1 and 3E2) should */
/* be temporarily enabled when testing newly installed or      */
/* serviced files.                                           */
/*-----*/
/* 'ACCESS 3E1 B' */
/* 'ACCESS 3E2 C' */
'ACCESS 3E0 D'          /* Access the HMF privileged-use */
                        /* production minidisk          */
Queue 'ACVVMHRM'        /* Queue command to start the server */
Exit

```

Figure 14. Sample HRM PROFILE EXEC File. This is the minimum configuration for an HRM server.

For future reference, the steps for setting up an HMFserve or HRM server are summarized below:

1. Create or update the server directory entry with all required information.

If you're using SFS directories and want the server's top directory automatically accessed as file mode A, include the following IPL control statement in the server directory entry:

```
IPL CMS PARM FILEPOOL VMSYS
```

2. Format the server 191 minidisk or enroll the server user ID in the appropriate filepool.
3. Create or update the server PROFILE EXEC file so that the appropriate minidisks are linked and accessed. Also, queue the appropriate command to start the HMF server when it's autologged.

6.3.2 Modify Tailorable HMF Files

Note!

1. Before tailoring any files, be sure to save copies of the original sample files for reference purposes.
2. Review the content of each sample file **before** you place it into production. Some sample files (such as the ACVPFXXT SAMPEXEC file) may produce unexpected results or side effects if they are not properly tailored prior to use.

The HMFserve server is integral to most of the function provided by HMF, so you should first tailor the files needed to operate this server. For details on tailoring HMFserve server files, refer to Chapter 3 of the *SystemView Host Management Facilities/VM Planning and Tailoring Guide*. You should then verify the operation of this server, using the information in Appendix A, "Installation and Service Verification Testing" on page 44.

After you have completed the initial tailoring and verification of the HMFserve server files, and the server itself, you may want to tailor additional HMF files at this time. See the *SystemView Host Management Facilities/VM Planning and Tailoring Guide* for specific instructions on how to tailor these files. Note that for some files, tailoring information is not included in this book; in such cases, use the instructions contained in the prolog and comments of the file itself.

Note: A complete list of tailorable HMF files is provided in Figure 15 on page 31. The first column lists the file name and file type of each tailorable file provided by IBM; the second column lists the required production file name and file type. Unless noted otherwise, these are privileged-use files that can be found on the P684157A 3E1 test build minidisk.

- 1 For each sample file required for your installation, copy the provided sample file to its production file name and file type; the copied file should reside on the same minidisk as its corresponding sample file.

vmfcopy *sampfn sampxxxx fm prodfn prodft fm2 (prodid 5684157a%hmf olddate replace*

where:

- *sampfn* and *sampxxxx* are the file name and file type of the sample file provided.
- *prodfn* and *prodft* are the required production file name and file type.
- *fm* is the file mode of the appropriate test build minidisk (P684157A 3E1 or 3E2).

Note: All production files should have a file mode number of 2.

The VMFCOPY command will update the VMSES PARTCAT file on the 3E1 or 3E2 minidisk.

Figure 15 (Page 1 of 3). Host Management Facilities Tailorable Files

Provided File ID	Production File ID	Description
ACVSERVER Control Files		
ACVSERVER SAMPAUTH	ACVSERVER AUTHUSER	ACVSERVER user ID command authorization file
ACVSERVER SAMPGBLL	ACVSERVER GBLLISTS	ACVSERVER node and user list definition file
ACVSERVER SAMPHOLI	ACVSERVER HOLIDAYS	ACVSERVER public holiday definition file
ACVSERVER SAMPRTAB	ACVSERVER RTABLE	ACVSERVER console automation command routing table
ACVSERVER SAMPSCHE	ACVSERVER SCHEDULE	ACVSERVER system event schedule file
ACVSERVER SAMPSVMC	ACVSERVER SVMCMD	ACVSERVER SVMLOGON (autolog) command/parameter file
ACVSERVER SAMPSVMM	ACVSERVER SVMMON	ACVSERVER SVM monitoring definition/identification file
EPIFILE SAMPSESV	EPIFILE ACVSERVER	ACVSERVER server shutdown processing profile
PROFILE SAMPSESV	PROFILE ACVSERVER	ACVSERVER server startup processing profile
ACVSERVER Tailorable Exits		
ACVALEXT SAMPEXEC	ACVALEXT EXEC	ACVSERVER SVM monitoring control exit
ACVALGXT SAMPEXEC	ACVALGXT EXEC	ACVSERVER AUTOLOG command control exit
ACVALSXT SAMPEXEC	ACVALSXT EXEC	ACVSERVER SVMMON dependent user ID status exit
ACVCLKXT SAMPEXEC	ACVCLKXT EXEC	ACVSERVER system clock validation exit
ACVCMSXT SAMPEXEC	ACVCMSXT EXEC	ACVSERVER CMS command control/processing exit
ACVCPEXT SAMPEXEC	ACVCPEXT EXEC	ACVSERVER CP command control/processing exit
ACVEPWXT SAMPEXEC	ACVEPWXT EXEC	ACVSERVER logon password extraction exit
ACVFIOXT SAMPEXEC	ACVFIOXT EXEC	ACVSERVER IUCV file transmission control exit
ACVHSTXT SAMPEXEC	ACVHSTXT EXEC	ACVSERVER event and command history logging exit
ACVIPLXT SAMPEXEC	ACVIPLXT EXEC	ACVSERVER system IPL/initialization exit
ACVPFXXT SAMPEXEC	ACVPFXXT EXEC	ACVSERVER default (ACV) prefix override exit
ACVRDEXT SAMPEXEC	ACVRDEXT EXEC	NETDATA reader file handling exit for ACVRDR EXEC
ACVRDRXT SAMPEXEC	ACVRDRXT EXEC	ACVSERVER reader file handling exit
ACVSVCTX SAMPEXEC	ACVSVCTX EXEC	ACVSERVER SVMCHECK problem recovery exit
Notes: 1. Files denoted with an asterisk (*) are general-use files. These files can be found on the P684157A 3E2 test build minidisk.		

Figure 15 (Page 2 of 3). Host Management Facilities Tailorable Files

Provided File ID	Production File ID	Description
ACVXFRXT SAMPEXEC	ACVXFRXT EXEC	ACVSERVERE transferred spool file handling exit
Other ACVSERVERE Tailorable Files		
ACVCALOG SAMPEXEC	ACVCALOG EXEC	Suspends/restores Console Automation logging for local action routines
ACVPIPE SAMPEXEC	ACVPIPE EXEC	Provides CMS Pipeline capability to explicitly authorized users
ACVQINF SAMPEXEC	ACVQINF EXEC	Provides ACVSERVERE INFORMID nickname resolution
RSCS/PVM Network Monitoring Files		
PVMQRY SAMPEXEC	PVMQRY EXEC	PVM network link monitoring/maintenance
RSCSQRY SAMPEXEC	RSCSQRY EXEC	RSCS network link monitoring/maintenance
RSCSTRAP SAMPEXEC	RSCSTRAP EXEC	Asynchronous RSCS command/response interface
RSCSTRP2 SAMPEXEC	RSCSTRP2 EXEC	Asynchronous RSCS command/response interface
SETGLOBL SAMPEXEC	SETGLOBL EXEC	RSCS/PVM monitoring support exec
ACVMON SAMPNAME	ACVMON NAMES	RSCS/PVM monitoring nickname definition file
ACVMON SAMPRTAB	ACVMON RTABLE	RSCS/PVM monitoring command routing table modifications
ACVMON SAMPSCHE	ACVMON SCHEDULE	RSCS/PVM monitoring event schedule file modifications
Performance Monitoring Files		
ACVBBPM1 SAMPEXEC	ACVBBPM1 EXEC	Sample black board performance method
ACVBBPM2 SAMPEXEC	ACVBBPM2 EXEC	Sample black board performance method
HMFESA SAMPDTLS	HMFESA DETAILS	3270 Interface performance monitor definition file (ESA Feature)
HMF370 SAMPDTLS	HMF370 DETAILS	3270 Interface performance monitor definition file (370 Feature)
ACVPERF SAMPCNTL	ACVPERF PERFCNTL	3270 Interface performance monitor control file
ACVPERF SAMPDESC	ACVPERF DESCRIPT	3270 Interface performance monitor variable description file
ACVPRFCL SAMPCNTL	ACVPRFCL CONTROL	Control file for performance monitor data collectors
ACVPERF SAMPTHRS	ACVPERF THRESHLD	Performance monitor threshold definition file
Notes:		
1. Files denoted with an asterisk (*) are general-use files. These files can be found on the P684157A 3E2 test build minidisk.		

Figure 15 (Page 3 of 3). Host Management Facilities Tailorable Files

Provided File ID		Production File ID		Description
COMESA	SAMPPSUB	COMESA	PSUBCOL	VM/ESA common performance data sub-collector (ESA Feature)
COM370	SAMPPSUB	COM370	PSUBCOL	VM/ESA common performance data sub-collector (370 Feature)
RTMESA	SAMPPSUB	RTMESA	PSUBCOL	VM/ESA RTM performance data sub-collector (ESA Feature)
RTM370	SAMPPSUB	RTM370	PSUBCOL	VM/ESA RTM performance data sub-collector (370 Feature)
PERFEVAL	SAMPEXEC	PERFEVAL	EXEC	Sample analysis routine for archived performance data
ACVLIMIT	SAMPCNTL	ACVLIMIT	CONTROL	ACVLIMIT operation control file (ESA Feature)
ACVLM370	SAMPCNTL	ACVLM370	CONTROL	ACVLM370 operation control file (370 Feature)
RTMLDC	SAMPEXEC	RTMLDC	EXEC	ACVLIMIT RTM data collection exec (ESA Feature)
RTMLD370	SAMPEXEC	RTMLD370	EXEC	ACVLM370 RTM data collection exec (370 Feature)
Other HMF Tailorable Files				
ACVAT	SAMPNAME (*)	ACVAT	NAMES (*)	ACVAT nickname/task definition file
ACVAT	SAMPPROF (*)	ACVAT	\$PROFILE (*)	ACVAT command operation control profile
ACVNET	SAMPNAME	ACVNET	NAMES	Network names definition file
HMFEVENT	SAMPEXEC (*)	HMFEVENT	EXEC (*)	Front-end exec for ACVEVENT EXEC
UCOMDIR	SAMPNAME	UCOMDIR	NAMES	CMS communications directory file
Notes: 1. Files denoted with an asterisk (*) are general-use files. These files can be found on the P684157A 3E2 test build minidisk.				

6.3.3 Test the Installation of HMF

Before you place HMF into production, you should verify that any tailoring you have done is correct, and that the various HMF components will operate satisfactorily within your environment.

If you have not already done so, you should perform the testing described in Appendix A, "Installation and Service Verification Testing" on page 44.

6.4 Place HMF Into Production

6.4.1 Place the HMF Privileged User Files Into Production.

- 1 Log on to the **P684157A** user ID.
- 2 Copy the HMF privileged user files from the test build minidisk (P684157A 3E1) to the corresponding production build minidisk (P684157A 3E0).

access 3E1 e
access 3E0 f

3E1 is the address of the test build minidisk where HMF files were loaded to during installation; 3E0 is the address of the privileged user production build minidisk.

vmfcopy ** e = = f2 (prodid 5684157a%hmf olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the 3E0 minidisk.

6.4.2 Place the HMF General User Files Into Production.

Note: The following steps should be done from the MAINT user ID, with links to the required P684157A minidisks, so that the appropriate CMS shared segment can be re-saved.

- 1 Log on to the **MAINT** user ID.
- 2 (VM/ESA Release 1.0 370 Feature systems only)

Link and access the SESELPS EE5 minidisk so the appropriate VMSES/E code will be available.

```
cp link seselps ee5 ee5 rr password
access ee5 b
```

- 3** Copy the HMF general user files from the test build minidisk (P684157A 3E2) to the corresponding production build minidisk (MAINT 19E).

```
cp link p684157a 3E2 addr1 rr password
```

addr1 is an available minidisk address on the MAINT user ID. 3E2 is the address of the test build minidisk where HMF files were loaded to during installation.

```
access addr1 e
```

```
access 19E f
```

```
vmfcopy * * e = = f2 (prodid 5684157a%hmf olddate replace
```

The VMFCOPY command will update the VMSES PARTCAT file on the 19E minidisk.

- 4** Copy the HMF HELP files from the HMF HELP minidisk (P684157A 29D) to the system HELP minidisk (MAINT 19D).

Note: Due to the number of HELP files copied during this step, the VMFCOPY command will take longer to complete than for the previous steps.

```
cp link p684157a 29D addr2 rr password
```

addr2 is an available minidisk address on the MAINT user ID.

```
access addr2 e
```

```
access 19D f
```

```
vmfcopy * * e = = f2 (prodid 5684157a%hmf olddate replace
```

The VMFCOPY command will update the VMSES PARTCAT file on the 19D minidisk.

- 5** Re-save the appropriate CMS shared segment, to return the 19E minidisk (Y-disk) to "shared" status. Re-save the CMS HELP saved segment as well, if necessary. See the 'Placing (Serviced) Components into Production' section of the *VM/ESA Service Guide* for detailed information about how these segments should be saved on your system.

Host Management Facilities is now installed and built on your system.

7.0 Service Instructions

This chapter describes the service process and provides step-by-step instructions to install corrective (COR) service to HMF with VMSES/E.

Note: Before you begin the procedure in this section, you should read the introductory chapters of the:

- *VMSES/E Introduction and Reference* (SC24-5444)

OR

- *VMSES/E 370 Feature Introduction and Reference for Licensed Products* (SC24-5659)

to become more familiar with the VMSES/E service process. This manual also contains the command syntax for the VMSES/E commands used for this procedure.

Note: Each step of these service instructions must be followed. Do not skip any step unless directed otherwise.

Throughout these instructions, the use of IBM-supplied default minidisk addresses and user IDs is assumed. If you used different user IDs, minidisk addresses, or SFS directories when you installed HMF, adapt these instructions as needed for your environment.

7.1 VMSES/E Service Process Overview

The following is a brief description of the main steps in servicing HMF using VMSES/E.

- **Merging Service**
Use the VMFMRDSK command to clear the alternate APPLY minidisk before receiving new service. This allows you to easily remove the new service if a serious problem is found.
- **Receiving Service**
The VMFREC command receives service from the delivery media and places it on the DELTA minidisk.
- **Applying Service**
The VMFAPPLY command updates the version vector table (VVT), which identifies the service level of all the serviced parts. In addition, AUX files are generated from the VVT for parts that require them.
- **Reapplying Local Service (if applicable)**
All local service (mods) must be entered into the Software Inventory to allow VMSES/E to track these changes and build them into the system. See Chapter 7 in the *VM/ESA Service Guide* (SC24-5527) for this procedure. VM/ESA 370 Feature customers see the *VMSES/E 370 Feature Introduction and Reference for Licensed Products*(SC24-5659)
- **Building New Levels**

The build task generates the serviced level of an object and places the new object on a test BUILD minidisk.

- Placing the New Service into Production

Once the service is satisfactorily tested, it should be put into production by copying the new service from the test build minidisks to the respective production minidisks, and then re-saving the CMS Named Saved System (NSS) or Discontiguous Saved Segments (DCSS), etc., as required for your installation.

7.2 Servicing Host Management Facilities

7.2.1 Prepare to Receive Service

- 1** Log on to the HMF service user ID, P684157A.
- 2** Establish write access to the Software Inventory minidisk if it's not already linked R/W.

cp link maint 51d 51d mr *password*
access 51d d

If you're applying service on VM/ESA Release 1.0 370 Feature, link and access the **SESELPS 51D** minidisk instead.

The MAINT 51D minidisk is where the VMSES/E system-level Software Inventory and other product dependent files reside.

Note: If another user already has the MAINT 51D minidisk (SESELPS 51D for VM/ESA Release 1.0 370 Feature) linked in write mode (R/W), you'll obtain only read access (R/O) to this minidisk. If this occurs, you'll need to have that user re-link the 51D minidisk in read-only mode (RR), and then re-issue the above LINK and ACCESS commands. Do not continue with these procedures until a R/W link is established to the 51D minidisk.

- 3** Have the HMF service tape mounted and attached to **P684157A** as 181.
- 4** Establish the correct minidisk access order.

vmfsetup 5684157a {hmf|hmfdfs}

Use **hmf** if HMF is installed on minidisks; use **hmfdfs** if HMF is installed on SFS directories.

Note: If you have your own PPF override file, you should use your PPF name instead of 5684157A throughout these instructions, unless noted otherwise.

- 5 Clear the alternate APPLY minidisk to ensure you have a clean minidisk for new service. This command will copy the contents of the alternate apply minidisk (P684157A 2A6) to the production apply minidisk (P684157A 2A2).

vmfmrdsd 5684157a {hmfihmfsfs} apply

- 6 Review the merge message log (\$VMFMRD \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific merge messages, see *VM/ESA System Messages and Codes* or use on-line HELP.

vmfview mrd

7.2.2 Receive the Service

Electronic Service

If you're receiving service from ServiceLink (electronic service) see Appendix A, 'Receiving COR Service from ServiceLink', in the *VM/ESA Service Guide* manual, (SC24-5527).

- 1 Receive the service.

vmfrec ppf 5684157a {hmfihmfsfs}

This command receives service from your service tape. All new service is loaded to the DELTA minidisk (P684157A 2D2).

- 2 Review the receive message log (\$VMFREC \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific receive messages, see *VM/ESA System Messages and Codes* or use on-line HELP.

vmfview receive

7.2.3 Apply the Service

- 1 Apply the new service.

vmfapply ppf 5684157a {hmfihmfsfs}

This command applies the service that you just received. The version vector table (VVT) is updated with all serviced parts and all necessary AUX files are generated.

- 2** Review the apply message log (\$VMFAPP \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific apply messages, see *VM/ESA System Messages and Codes* or use on-line HELP.

vmfview apply

7.2.4 Update the Build Status Table

- 1** Update the Build Status Table with serviced parts.

vmfbld ppf 5684157a {hmfihmfsfs} (status

Note

If the \$PPF files have been serviced you'll get the following prompt:

```
⋮
VMFBLD2185R The following source product parameter files have been
serviced:
VMFBLD2185R 5684157A $PPF
VMFBLD2185R When source product parameter files are serviced, all
product parameter files built from them must be recompiled
using VMFPPF before VMFBLD can be run.
VMFBLD2185R Enter zero (0) to have the serviced source product
parameter files built to you A-disk and exit VMFBLD so
you can recompile your product parameter files with VMFPPF
Enter one (1) to continue only if you have already
recompiled your product parameter files with VMFPPF
```

0

Enter a 0 and complete the following steps before you continue.

```
VMFBLD2188I Building 5684157A $PPF on 191 (A) from level $PFnnnnn
⋮
```

vmfppf 5684157a {hmf|hmfsfs}

Use **hmf** if HMF is installed on minidisks; use **hmfsfs** if HMF is installed on SFS directories.

Note: If you have your own PPF override file, you should use your PPF name instead of 5684157A.

Do not use your own PPF name in place of 5684157A for the following COPYFILE and ERASE commands.

copyfile 5684157A \$ppf a = = d (olddate replace

erase 5684157A \$ppf a

vmfbl d ppf 5684157a {hmf|hmfsfs} (status
1

Re-issue VMFBLD to complete updating the build status table. When you receive the prompt that was previously displayed, enter a 1 to continue.

Note: If you have your own PPF override file, you should resume with the use your PPF name instead of 5684157A.

2 View the build status messages, and see what objects need to be built.

vmfview build

7.2.5 Build Serviced Objects

- 1 Rebuild HMF serviced parts.

vmfbld ppf 5684157a {hmflhmfsfs} (serviced

- 2 Review the build message log (\$VMFBLD \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific build messages, see *VM/ESA System Messages and Codes* or use on-line HELP.

vmfview build

7.2.6 Recompile EXEC and XEDIT Files (Optional)

If you use compiled REXX EXEC and XEDIT files on your system, you should recompile any serviced EXEC and XEDIT components of HMF at this time. Serviced components will have been identified in the build message log (\$VMFBLD \$MSGLOG), and will reside on one or both of the test build minidisks (P684157A 3E1 and 3E2). Also, before you compile a non-tailorable file, ensure it's listed in the ACVRXCMP LIST file. If necessary, see 6.2.5, "Compile EXEC and XEDIT Files (Optional)" on page 27 for more information about compiling HMF REXX components.

7.3 Test the New HMF Service

Before you place any serviced HMF files into production—whether they are tailored or non-tailored files—test these files to verify that they function correctly for your installation. See Appendix A, "Installation and Service Verification Testing" on page 44 for more information about testing serviced files. When your testing is complete, return to 7.4, "Place Serviced HMF Files Into Production" to resume with the service process.

7.4 Place Serviced HMF Files Into Production

7.4.1 Place the HMF Privileged User Files Into Production.

- 1 Log on to the HMF service user ID, P684157A.
- 2 Copy the HMF privileged user files from the test build minidisk (P684157A 3E1) to the corresponding production build minidisk (P684157A 3E0).

access 3E1 e
access 3E0 f

3E1 is the test build minidisk where the new service was just built; 3E0 is the address of the P684157A privileged user production build minidisk.

vmfcopy * * e = = f2 (prodid 5684157a%hmf olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the 3E0 minidisk.

7.4.2 Place the HMF General User Files Into Production.

Note: The following steps should be done from the MAINT user ID, with links to the required P684157A minidisks, so that the appropriate CMS shared segment can be re-saved.

- 1 Log on to the **MAINT** user ID.
- 2 (VM/ESA Release 1.0 370 Feature systems only)

Link and access the SESELPS EE5 minidisk so the appropriate VMSES/E code will be available.

cp link seselps ee5 ee5 rr password
access ee5 b

- 3 Copy the HMF general user files from the test build minidisk (P684157A 3E2) to the corresponding production build minidisk (MAINT 19E).

cp link p684157a 3E2 addr1 rr password

addr1 is an available minidisk address on the MAINT user ID. 3E2 is the test build minidisk where the new service was just built.

access addr1 e
access 19E f

vmfcopy * * e = = f2 (prodid 5684157a%hmf olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the 19E minidisk.

- 4** Copy any serviced HMF HELP files from the HMF HELP minidisk (P684157A 29D) to the system HELP minidisk (MAINT 19D).

cp link p684157a 29D addr2 rr password

addr2 is an available minidisk address on the MAINT user ID.

access addr2 e

access 19D f

vmfcopy * * e = = f2 (prodid 5684157a%hmf olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the 19D minidisk.

- 5** Re-save the appropriate CMS shared segment, to return the 19E minidisk (Y-disk) to "shared" status. Re-save the CMS HELP saved segment as well, if necessary. See the 'Placing (Serviced) Components into Production' section of the *VM/ESA Service Guide* for detailed information about how these segments should be saved on your system.

You have now finished servicing Host Management Facilities.

Appendix A. Installation and Service Verification Testing

A.1 General Information

This appendix provides information about tests that can be used to verify that HMF has been correctly installed and serviced on your system.

Note: For testing purposes, the PROFILE EXEC file used by the HMFserve (or HRM) server user ID should be *temporarily* modified to access the test build minidisks (P684157A 3E1 and 3E2) ahead of the production minidisks (P684157A 3E0 and MAINT 19E). This will ensure that the appropriate HMF files will be available, and that any new or changed files are properly tested before they're placed into production. Comments within the sample PROFILE EXEC files for each server indicate how these files should be modified for testing.

A.2 Testing the Operation of the HMFserve Server

- 1** Log on to a local HMFserve user ID.
- 2** Temporarily modify the PROFILE EXEC for this user ID. If necessary, see Figure 13 on page 29 for information about the changes that should be made to facilitate testing.
- 3** Execute the modified PROFILE EXEC.

profile

- 4** Start the server by invoking the ACVserve program (if this is not done via the PROFILE EXEC).

acvserve

If you encounter ACVserve start-up problems, see the *SystemView Host Management Facilities/VM Planning and Tailoring Guide* for specific ACVserve requirements.

- 5** After the initialization of the HMFserve server is complete, disconnect from this user ID.

cp disconnect

- 6** Log on to the P684157A user ID.

7 Issue the ACVSERVERE command, QUERY VERSION, via the CMS TELL command.

tell hmfserve cmd query version

The response from this command should resemble the following:

```
Ready;
tell hmfserve cmd query version
Ready;
Host Management Facilities/VM Version 1 Release 1.1
hh:mm:ss ACVSRV0018I Return code = 10101.
```

8 Issue the ACVSERVERE command, HELP, via the CMS TELL command.

tell hmfserve cmd help

The response from this command should resemble the following:

```
Ready;
tell hmfserve cmd help
Ready;
Host Management Facilities/VM Version 1 Release 1.1
-----
?          GET DETAILED HELP INFORMATION ABOUT AN ACVSERVERE COMMAND
After      SCHEDULE AN EVENT TO RUN AFTER A SPECIFIED AMOUNT OF TIME...
Alter      CHANGE A PERSONAL EVENT OWNED BY YOUR VIRTUAL MACHINE
AT         SCHEDULE AN EVENT TO RUN AT A SPECIFIED TIME
AUTHLog    AUTHORIZE ANOTHER VIRTUAL MACHINE TO AUTOLOG MY VIRTUAL...
DElete     DELETE A PERSONAL EVENT OWNED BY MY VIRTUAL MACHINE
EVery      SCHEDULE AN EVENT TO RUN AT A REGULAR INTERVAL
Help       GET DETAILED HELP INFORMATION ABOUT AN ACVSERVERE COMMAND
LOGMeon    AUTOLOG MY VIRTUAL MACHINE AT THE TIME OF MY CHOICE
LOGUser    AUTOLOG ANOTHER VIRTUAL MACHINE THAT I AM AUTHORIZED TO RUN
NOResp     SUPPRESS RESPONSES FROM CP, CMS, OR ACVSERVERE COMMANDS
NOTrans    PROCESS COMMANDS USING MIXED- OR LOWERCASE CHARACTERS
Query      AUTOLog  DISPLAY MY PERSONAL AUTOLOG EVENTS
Query      AUTOPass DISPLAY THE AUTOPASS SETTING
Query      HOLIDays DISPLAY THE DATES OF PUBLIC HOLIDAYS DEFINED BY ACVSERVERE
Query      LOGUser  DISPLAY THE LOGUSER AUTHORIZATIONS FOR YOUR VIRTUAL MACHINE
Query      MYevent  DISPLAY PERSONAL EVENTS OWNED BY MY VIRTUAL MACHINE
Query      REMinder DISPLAY PERSONAL REMINDERS OWNED BY MY VIRTUAL MACHINE
Query      RUNMode  DISPLAY THE CURRENT RUN MODE OF THE ACVSERVERE SERVER
Query      TASK     DISPLAY MY PERSONAL EVENTS BY TASK NAME
Query      TODO     DISPLAY MY PERSONAL TO-DO ITEMS
Query      VERSION  DISPLAY THE VERSION, RELEASE NUMBER, AND MOD LEVEL OF HMF/VM
REMinder   SEND A MESSAGE TO MY VIRTUAL MACHINE AT THE TIME OF MY CHOICE
RETurnrc
TASKid     ASSIGN A TASK NAME TO MY PERSONAL EVENTS
TODO       SAVE A ONE-LINE REMINDER FOR FUTURE DISPLAY
WNGRem     SEND A WARNING TO MY VIRTUAL MACHINE AT THE TIME OF MY CHOICE
hh:mm:ss  ACVSRV0006I Command complete.
```

Once the HMFserve server is operational, you may want to perform additional server testing with other ACVserve commands. If so, see the *SystemView Host Management Facilities/VM User's Guide and Reference* for more information about the commands available for your use.

A.3 Testing the Operation of the HRM Server

Note: If you are **not** using CPI Communications to communicate with HMF servers, the HRM user ID is not used. If this is the case, you do not need to verify the operation of this server.

If you **are** using CPI Communications to communicate with HMF, it's recommended that you complete *all* tailoring, set-up and verification associated with the HMFserve server and other HMF commands (as needed for your environment), before you begin any tailoring or testing associated with the HRM server.

See Chapter 7, 'Using CPI Communications with HMF,' of the *SystemView Host Management Facilities/VM Planning and Tailoring Guide* for detailed information about setting up the HRM server and its requirements.

Once the HRM server has been set up, you can use the following command to verify that your CPI Communications tailoring is correct:

acvcomm symdest (query version

symdest is the symbolic destination name of the HRM intermediate server.

The response from this command should resemble the following:

```
Ready;  
Host Management Facilities/VM Version 1 Release 1.1  
hh:mm:ss ACVSRV0018I Return code = 10101.
```

A.4 Testing the Operation of Other HMF Components

To test the operation of other HMF components and commands, or to verify that HMF files have been correctly tailored, see the *SystemView Host Management Facilities/VM User's Guide and Reference* for more information about what commands are available and how they can be used.

In general, you should be able to verify the operation of most general use HMF commands from the P684157A user ID. Note that for many HMF commands, specific files must be tailored before these commands can be used effectively.

Also, the P684157A user ID may not have the command authorization necessary to issue privileged HMF commands (or general use commands whose authority has been changed). Therefore, it may be necessary to issue such commands via other user IDs, in order to verify that those commands operate as expected, or to verify the correct tailoring of a given file.

Note!

Before you continue with the installation or service of HMF, make sure you:

- have restored any modified PROFILE EXEC files to their production state, so that the test build minidisks (P684157A 3E1 and 3E2) are not accessed.
- are logged on the P684157A user ID.

Appendix B. Migration Considerations

This appendix provides information about resource changes, new and changed files, and considerations about how various HMF files should be processed when migrating from HMF Release 1.0 to HMF Release 1.1.

Throughout this appendix, the use of IBM-supplied default minidisk addresses and user IDs is assumed (for both HMF Release 1.1 and HMF Release 1.0). If the use of different user IDs, minidisk addresses, or SFS directories is applicable to the installation of either HMF Release 1.1 or HMF Release 1.0, adapt this information as needed for your environment.

B.1 Resource Changes

Because HMF Release 1.1 uses VMSES/E for installation and service, the minidisk structure required for HMF Release 1.1 has changed considerably from that used for HMF Release 1.0. Therefore, several minidisk and user directory changes will be required to migrate to HMF Release 1.1.

B.1.1 Minidisk Changes

Changes to minidisk addresses, owner user IDs, and usage are summarized in Figure 16. This table is intended to help you locate HMF Release 1.0 files for comparison with their HMF Release 1.1 counterparts, and to indicate that *some* HMF Release 1.0 resources may no longer be required when your migration to HMF Release 1.1 is complete. Decisions as to how or when to reclaim existing HMF Release 1.0 resources for other uses are dependent upon the practices and guidelines of your installation.

Note: Not all of the required HMF Release 1.1 minidisks are identified in Figure 16, due to the manner in which some of the new minidisks are used. Detailed information about all of the minidisks required to install and service HMF Release 1.1 is provided in 5.2, "DASD Storage and User ID Requirements" on page 8.

<i>Figure 16 (Page 1 of 2). Comparison of HMF Release 1.1 and HMF Release 1.0 Minidisks</i>				
HMF Release 1.1		HMF Release 1.0		Usage
Owner User ID	Default Address	Owner User ID	Default Address	
P684157A	2B2	MAINT	3B0	HMF product base files
P684157A	2D2	MAINT	3DD	HMF serviced files
P684157A	3E0	MAINT	3E0 3E1	Production HMF privileged use files
MAINT	19E	MAINT	19E	Production HMF general use files
MAINT	19D	MAINT	19D	Production HMF HELP files
P684157A	D0C	MAINT	19B	HMF softcopy publications

Figure 16 (Page 2 of 2). Comparison of HMF Release 1.1 and HMF Release 1.0 Minidisks

HMF Release 1.1		HMF Release 1.0		Usage
Owner User ID	Default Address	Owner User ID	Default Address	
HMFserve	191	HMFserve	191	HMFserve server 191 work minidisk
HRM	191	HRM	191	HRM server 191 work minidisk

B.1.2 User ID Directory Changes

Several user directory changes are required to accommodate the HMF Release 1.1 minidisk structure; these are described in more detail below:

For all HMF general user and privileged user virtual machines:

- LINK statements for the MAINT 19B minidisk should be replaced with LINK statements for the P684157A DOC minidisk, to allow access to HMF Release 1.1 softcopy publications.

For HMFserve, HRM, and HMF privileged end-user virtual machines:

- LINK statements for the MAINT 3E0 minidisk should be replaced with LINK statements for the P684157A 3E0 minidisk, to allow access to HMF Release 1.1 production privileged use files.
- LINK statements for the MAINT 3E1 minidisk should be removed, as this minidisk is not used with HMF Release 1.1.
- For user ID's that you plan to use to test new or serviced HMF files, you should add LINK statements for the P684157A 3E1 and P684157A 3E2 test build minidisks.

B.1.3 PROFILE EXEC Changes

The PROFILE EXEC files for your HMFserve and HRM servers will need to be modified to account for the minidisk and user directory entry changes previously described. See 6.3.1, "Create the HMFserve and HRM PROFILE EXEC Files" on page 28 for more information about changes that you'll need to implement in your existing server PROFILE EXEC files.

Note: Any HMF privileged or general user PROFILE EXEC files that link or access HMF minidisks during their execution will need to be modified to account for these resource changes as well.

B.2 HMFserve File Considerations

Files created and maintained by an HMFserve server on its 191 minidisk (such as the *serverid* AUTOMONS or *serverid* EVTFIL files) should not be modified when migrating to HMF Release 1.1. These types of files are described in more detail in the *SystemView Host Management Facilities/VM Planning and Tailoring Guide*.

The format of the ACVSERVE HOLIDAYS file has been modified so that start and end dates, as well as start and end times, can be specified when holidays are defined. See the *SystemView Host Management Facilities/VM Planning and Tailoring Guide* for more information about these changes and how they may affect your use of this file.

If you want to convert your existing HOLIDAYS file to the new format, a conversion exec (HOLCONV SAMPEXEC) has been provided to do this. See the prolog comments within this exec for details on its use.

B.3 Non-Tailable File Considerations

The ACVLIMSP EXEC included as part of HMF Release 1.0 has been replaced with the ACVLM370 EXEC file; this exec is similar in function to the ACVLIMIT EXEC, but has been written specifically for VM/ESA 370 Feature systems.

B.4 Tailorable (Sample) File Considerations

This section provides information about changes to various HMF tailorable files. In general, you should be able to copy your existing tailored files to the appropriate test build minidisk (P684157A 3E1 or 3E2) and use them without additional modifications.

However, you should still review the files listed in the following sections, to determine whether the changes made to them will affect their use or operation within your environment.

B.4.1 New Files

The files listed in Figure 17 have been introduced with HMF Release 1.1. Instructions for tailoring and using these files can be found in either the *SystemView Host Management Facilities/VM Planning and Tailoring Guide*, or within the files themselves.

Figure 17 (Page 1 of 2). HMF Release 1.1 New Files.

Provided File ID	Production File ID	Description
ACVCALOG SAMPEXEC	ACVCALOG EXEC	Suspends/restores Console Automation logging for local action routines
ACVPIPE SAMPEXEC	ACVPIPE EXEC	Provides CMS Pipeline capability to explicitly authorized users
ACVQINF SAMPEXEC	ACVQINF EXEC	Provides ACVSERVE INFORMID nickname resolution
HOLCONV SAMPEXEC	HOLCONV EXEC	Format conversion exec for ACVSERVE HOLIDAYS file
PERFEVAL SAMPEXEC	PERFEVAL EXEC	Sample analysis routine for archived performance data

Figure 17 (Page 2 of 2). HMF Release 1.1 New Files.

Provided File ID		Production File ID		Description
PVMQRY	SAMPEXEC	PVMQRY	EXEC	PVM network link monitoring/maintenance
RSCSQRY	SAMPEXEC	RSCSQRY	EXEC	RSCS network link monitoring/maintenance
RSCSTRAP	SAMPEXEC	RSCSTRAP	EXEC	Asynchronous RSCS command/response interface
RSCSTRP2	SAMPEXEC	RSCSTRP2	EXEC	Asynchronous RSCS command/response interface
SETGLOBL	SAMPEXEC	SETGLOBL	EXEC	RSCS/PVM monitoring support exec
ACVMON	SAMPNAME	ACVMON	NAMES	RSCS/PVM monitoring nickname definition file
ACVMON	SAMPRTAB	ACVMON	RTABLE	RSCS/PVM monitoring command routing table modifications
ACVMON	SAMPSCHE	ACVMON	SCHEDULE	RSCS/PVM monitoring event schedule file modifications

B.4.2 Modified Files

The files listed in Figure 18 have been modified for HMF Release 1.1. If your installation currently uses the HMF Release 1.0-level of these files, you may need to re-tailor or replace those files.

For each file used by your installation, compare the unmodified HMF Release 1.1-level of that file with its equivalent HMF Release 1.0-level file. If any changes have been made that affect your use of a file, you should either implement your modifications in a production copy of the HMF Release 1.1-level file, or modify your existing HMF Release 1.0-level production file, accounting for new or modified attributes.

Figure 18 (Page 1 of 2). HMF Release 1.1 Modified Files.

Provided File ID		Production File ID		Description
ACVSERVE	SAMPAUTH	ACVSERVE	AUTHUSER	ACVSERVE user ID command authorization file
ACVLIMIT	SAMPCNTL	ACVLIMIT	CONTROL	ACVLIMIT operation control file (ESA Feature)
ACVPRFCL	SAMPCNTL	ACVPRFCL	CONTROL	Control file for performance monitor data collectors
ACVPERF	SAMPDESC	ACVPERF	DESCRIPT	3270 Interface performance monitor variable description file
ACVRDRXT	SAMPEXEC	ACVRDRXT	EXEC	ACVSERVE reader file handling exit
ACVSVCXT	SAMPEXEC	ACVSVCXT	EXEC	ACVSERVE SVMCHECK problem recovery exit
RTMLDC	SAMPEXEC	RTMLDC	EXEC	ACVLIMIT RTM data collection exec (ESA Feature)
ACVSERVE	SAMPHOLI	ACVSERVE	HOLIDAYS	ACVSERVE public holiday definition file
ACVAT	SAMPNAME	ACVAT	NAMES	ACVAT nickname/task definition file
COMESA	SAMPPSUB	COMESA	PSUBCOL	VM/ESA common performance data sub-collector (ESA Feature)

Figure 18 (Page 2 of 2). HMF Release 1.1 Modified Files.

Provided File ID	Production File ID	Description
RTMESA SAMPPSUB	RTMESA PSUBCOL	VM/ESA RTM performance data sub-collector (ESA Feature)
ACVPERF SAMPTHRS	ACVPERF THRESHLD	Performance monitor threshold definition file

B.4.3 Renamed/Replaced Files

The files listed in Figure 19 have been either renamed or replaced for HMF Release 1.1.

As with modified files, compare the unmodified HMF Release 1.1-level files with the HMF Release 1.0 counterparts used by your installation. If any changes have been made that affect your use of a file, you should either implement your modifications in a production copy of the HMF Release 1.1-level file, or copy and modify your existing HMF Release 1.0-level production file, accounting for new or modified attributes.

Figure 19. HMF Release 1.1 Renamed/Replacement Files.

HMF Release 1.1 File ID	HMF Release 1.0 File ID	Description
ACVLM370 SAMPCNTL (ACVLM370 CONTROL)	ACVLIMSP SAMPCNTL (ACVLIMSP CONTROL)	ACVLM370 operation control file (370 Feature)
HMF370 SAMPDTLS (HMF370 DETAILS)	HMFSP SAMPDTLS (HMFSP DETAILS)	3270 Interface performance monitor definition file
RTMLD370 SAMPEXEC (RTMLD370 EXEC)	RTMLDCSP SAMPEXEC (RTMLDCSP EXEC)	RTM data collection exec
COM370 SAMPPSUB (COM370 PSUBCOL)	COMSP SAMPPSUB (COMSP PSUBCOL)	Common performance data sub-collector
RTM370 SAMPPSUB (RTM370 PSUBCOL)	RTMSP SAMPPSUB (RTMSP PSUBCOL)	RTM performance data sub-collector

B.4.4 Deleted Files

Figure 20 lists HMF Release 1.0 files that have been deleted from HMF Release 1.1. You should review your use of these files and determine whether you continue to have a need for them; any unused files should be discarded.

Figure 20. HMF Release 1.0 Deleted Files.

Provided File ID		Production File ID (If Applicable)	Description
ACVB00K	CATALOG		Distribution control file for on-line documentation
ACVCNTRL	CATALOG		Control file for component management
ACVHELPH	CATALOG		Distribution control file for HMF HELP files
ACVLOCAL	CATALOG		Distribution control file for HMF-related files
ACVPVCMN	CATALOG		Distribution control file for privileged-use non-tailored files
ACVPVSMP	CATALOG		Distribution control file for privileged-use sample files
ACVPVTLR	CATALOG		Distribution control file for privileged-use tailorable files
ACVUSCMN	CATALOG		Distribution control file for general-use non-tailored files
ACVUSSMP	CATALOG		Distribution control file for general-use sample files
ACVUSTLR	CATALOG		Distribution control file for general-use tailorable files
I5684157	011007		Installation control file
I5684157	MEMO		Memo to Users
I5684157	EXEC		Product installation exec
ACVIDENT	EXEC		Installation/service and component identification utility
COMXA	SAMPPSUB	COMXA PSUBCOL	VM/XA common performance data sub-collector (VM/XA systems)
RTMXA	SAMPPSUB	RTMXA PSUBCOL	VM/XA RTM performance data sub-collector (VM/XA systems)
HMFXA	SAMPDTLS	HMFXA DETAILS	3270 Interface performance monitor definition file (VM/XA systems)

Appendix C. Additional PPF Override Information

This appendix provides additional information about using VMSES/E PPF override files that may be helpful when installing or servicing HMF. The information presented here should be used as a supplement to that available in the *VMSES/E Introduction and Reference* (SC24-5444).

C.1 General Override Information

Many of the VMSES/E commands used during the HMF installation and service procedures require a PPF name to be specified when those commands are issued. If no PPF override files are used, the 5684157A PPF name should be specified with these commands. However, when PPF override files *are* used, the name of your override file needs to be specified instead of 5684157A.

You may find it useful to record below the names of any PPF override files you use when you install or service HMF, to avoid potential problems or confusion at a later time.

Figure 21. HMF PPF Override Information

PPF Override Name	Description

Whenever you create or change a PPF override file, you need to compile your source override file (with file type \$PPF) into its useable form (a file with a file type of PPF) before it can be used. To compile a PPF override, use the VMSES/E VMFPPF command, which will apply your override(s) to the product (5684157A) \$PPF file. The simplest form of this command is indicated below:

`VMFPPF overname compname`

where:

- *overname* is the file name of a \$PPF override file.
- *compname* is the name of the component (or component ID) with which the override changes are associated.

See the *VMSES/E Introduction and Reference* for detailed information about the VMFPPF command.

Figure 22 on page 55 identifies the HMF defaults for the user IDs, minidisks, and SFS directories that are required to install and service HMF. If you use PPF override files to change any of these resources, you may want to record your changes in this table for future reference.

Additional information about these resources can be found in 5.2, “DASD Storage and User ID Requirements” on page 8, and in Figure 9 on pages 9 through 11.

<i>Figure 22 (Page 1 of 2). HMF Default User IDs, Minidisks, and SFS Directories</i>		
Owner User ID	Default Minidisk Address	Default SFS Directory Name
P684157A	2B2	VMSYS:P684157A.HMF.BASE
P684157A	2C2	VMSYS:P684157A.HMF.LOCALMOD
P684157A	2D2	VMSYS:P684157A.HMF.DELTA
P684157A	2A6	VMSYS:P684157A.HMF.APPLYALT
P684157A	2A2	VMSYS:P684157A.HMF.APPLYPRD
P684157A	3E0	VMSYS:P684157A.HMF.PRIVUSER
MAINT	19E	Installation dependent
MAINT	19D	Installation dependent
P684157A	3E1	VMSYS:P684157A.HMF.BUILDPRV
P684157A	3E2	VMSYS:P684157A.HMF.BUILDCMN
P684157A	29D	VMSYS:P684157A.HMF.HELPAME
P684157A	D0C	VMSYS:P684157A.HMF.BUILDDOC
P684157A	191	VMSYS:P684157A.
HMFSERVE	191	VMSYS:HMFSERVE.
HRM	191	VMSYS:HRM.

<i>Figure 22 (Page 2 of 2). HMF Default User IDs, Minidisks, and SFS Directories</i>		
Owner User ID	Default Minidisk Address	Default SFS Directory Name

C.2 Changing Installation Defaults: Creating an Override

During the planning phase of the HMF installation process (6.2.1, “Plan Your Installation,” step 6), you're given the opportunity to change the default installation environment, using the 'Make Override Panel' function. This function lets you change the name of the \$PPF file, the installation/service user ID, and minidisk addresses or SFS directory names. After you finish making changes, the 'Make Override Panel' function will create an override for the PPF and component names used with the VMFINS command and its PLAN option.

When you install HMF, one of the following component names will be used (either directly, or through the use of an override):

- HMFINS, for a minidisk-based installation.
- HMFISFS, for an SFS-based installation.

If you make changes via the 'Make Override Panel' function, your changes will only apply to the installation-related component you use. However, service components exist which correspond to each of these installation components; the service component is used at a later time, when you apply service to HMF. To allow HMF service to be applied within your environment, your installation-related changes must also be implemented for the appropriate service component. These service components are:

- HMF, for a minidisk-based environment.
- HMF SFS, for an SFS-based environment.

As with any PPF changes, these changes should be made via a PPF override. It's recommended that you create the service override at the same time you create the installation override.

The following section describes how to change the HMF default minidisk installation environment for a VM/ESA Release 2.1 system, during the planning phase. For other VM/ESA systems, the command operands and responses required may be different from those indicated here.

1 Issue the VMFINS command to obtain resource planning information for HMF.

vmfins install ppf 5684157a hmfin (plan nomemo

2 When prompted to create a PPF override file, type **1** after the prompt, and then indicate that you wish to change the default installation values. The 'Make Override Panel' panel will then be displayed, from which you can make your changes. After you've completed your changes and exited this panel, a new \$PPF file (with the file name you specified) will be created and then compiled.

For this example, it's assumed that the following changes are made via the 'Make Override Panel' function:

- the default installation user ID is changed from **P684157A** to **LPMAINT**.
- changes are saved using a file name of **HMF11** for the \$PPF override file.

The HMF11 \$PPF that will be created by the 'Make Override Panel' function is shown in Figure 23.

```
*****
* Host Management Facilities/VM      *
*****
:OVERLST. HMFINS
:HMFINS. HMFINS 5684157A
:DCL. REPLACE
&HMFID1 USER LPMAINT
&INST191 LINK LPMAINT 191 191 MR * P684157A 191 work disk
&BAS1Z LINK LPMAINT 2B2 2B2 MR * HMF Product BASE files
&SAMPZ LINK LPMAINT 2C2 2C2 MR * HMF LOCAL modifications
&DELTZ LINK LPMAINT 2D2 2D2 MR * HMF Service files
&APPLX LINK LPMAINT 2A6 2A6 MR * HMF Alternate APPLY files
&APPLZ LINK LPMAINT 2A2 2A2 MR * HMF Production APPLY files
&BLD2X LINK LPMAINT 3E2 3E2 MR * Alt. Build: General Access
&BLD1X LINK LPMAINT 3E1 3E1 MR * Alt. Build: Privileged Access
&BLD1Z LINK LPMAINT 3E0 3E0 MR * Prd. Build: Privileged Access
&HELP LINK LPMAINT 29D 29D MR * Alt. Build: CMS HELP
&BOOK LINK LPMAINT D0C D0C MR * Alt. Build: OnLine Documentation
&HMFID3 USER HRM
&DISK12 LINK HRM 191 191 MR * HRM server 191 work disk
&HMFID2 USER HMFserve
&DISK11 LINK HMFserve 191 191 MR * HMFserve server 191 work disk
:EDCL.
:END.
```

Figure 23. Sample Minidisk Installation Override. This is the HMF11 \$PPF override file created by the 'Make Override Panel' function for the HMFINS component.

- 3 Although the 'Make Override Panel' function will automatically compile the HMF11 \$PPF override, this will only be done using the installation component name, HMFINS. You need to create a similar override section in the HMF11 \$PPF file for the service component, HMF.

Edit the HMF11 \$PPF file created via the 'Make Override Panel' function. The changes or additions you need to make are shown in Figure 24 on page 60 in **bold** print; significant sections are marked with call-outs (such as **2**, where additions are required).

xedit hmf11 \$ppf *fm*2

fm is the file mode where the HMF11 \$PPF file resides.

Depending on the level of VMSES/E in use, this file mode will be either A or D — A being that of a R/W 191 minidisk (or equivalent); D, that of the Software Inventory minidisk (MAINT 51D).

```

*****
* Host Management Facilities/VM *
*****
:OVERLST. HMFINS HMF
:HMFINs. HMFINS 5684157A
:DCL. REPLACE
&HMFID1 USER LPMAINT
&INST191 LINK LPMAINT 191 191 MR * P684157A 191 work disk
&BAS1Z LINK LPMAINT 2B2 2B2 MR * HMF Product BASE files
&SAMPZ LINK LPMAINT 2C2 2C2 MR * HMF LOCAL modifications
&DELTZ LINK LPMAINT 2D2 2D2 MR * HMF Service files
&APPLX LINK LPMAINT 2A6 2A6 MR * HMF Alternate APPLY files
&APPLZ LINK LPMAINT 2A2 2A2 MR * HMF Production APPLY files
&BLD2X LINK LPMAINT 3E2 3E2 MR * Alt. Build: General Access
&BLD1X LINK LPMAINT 3E1 3E1 MR * Alt. Build: Privileged Access
&BLD1Z LINK LPMAINT 3E0 3E0 MR * Prd. Build: Privileged Access
&HELP LINK LPMAINT 29D 29D MR * Alt. Build: CMS HELP
&BOOK LINK LPMAINT D0C D0C MR * Alt. Build: Online Documentation
&HMFID3 USER HRM
&DISK12 LINK HRM 191 191 MR * HRM server 191 work disk
&HMFID2 USER HMFserve
&DISK11 LINK HMFserve 191 191 MR * HMFserve server 191 work disk
:EDCL.
:END.
*
*****
* Host Management Facilities/VM - Service Override *
*****
:HMF. HMF 5684157A
:DCL. REPLACE
&HMFID1 USER LPMAINT
&INST191 LINK LPMAINT 191 191 MR * P684157A 191 work disk
&BAS1Z LINK LPMAINT 2B2 2B2 MR * HMF Product BASE files
&SAMPZ LINK LPMAINT 2C2 2C2 MR * HMF LOCAL modifications
&DELTZ LINK LPMAINT 2D2 2D2 MR * HMF Service files
&APPLX LINK LPMAINT 2A6 2A6 MR * HMF Alternate APPLY files
&APPLZ LINK LPMAINT 2A2 2A2 MR * HMF Production APPLY files
&BLD2X LINK LPMAINT 3E2 3E2 MR * Alt. Build: General Access
&BLD1X LINK LPMAINT 3E1 3E1 MR * Alt. Build: Privileged Access
&BLD1Z LINK LPMAINT 3E0 3E0 MR * Prd. Build: Privileged Access
&HELP LINK LPMAINT 29D 29D MR * Alt. Build: CMS HELP
&BOOK LINK LPMAINT D0C D0C MR * Alt. Build: Online Documentation
&HMFID3 USER HRM
&DISK12 LINK HRM 191 191 MR * HRM server 191 work disk
&HMFID2 USER HMFserve
&DISK11 LINK HMFserve 191 191 MR * HMFserve server 191 work disk
:EDCL.
:END.

```

Figure 24. Sample Minidisk Installation and Service Override. This is the HMF11 \$PPF override file with additions necessary for the HMF service component.

- 4 Ensure the HMFINS *and* HMF component IDs have been specified following the :OVERLST. tag (**1** in Figure 24 on page 60), then save (file) your changes.

If your \$PPF override file was created at file mode A, copy it to file mode D—the Software Inventory minidisk (MAINT 51D).

file

copyfile hmf11 \$ppf fm == d (olddate

- 5 Recompile your changed HMF11 \$PPF file, to create the usable PPF file. You need to do this *twice*, so that the appropriate overrides are implemented for both installation and service.

vmfppf hmf11 hmfin

Use of the **hmfin** component ID will create the HMFINS component section necessary for installing HMF.

vmfppf hmf11 hmf

Use of the **hmf** component ID will create the HMF component section, for use in servicing hmf.

Now that the HMF11 PPF file has been created, you can use this PPF name instead of 5684157A throughout the remainder of the HMF installation and service instructions.

C.3 Overriding the VMSYS File Pool Name

This section provides information to help you change the name of the file pool where HMF files will reside when HMF is installed using SFS directories.

During the VMFINS installation process, you're presented with an opportunity to override the default installation parameters defined in the 5684157A \$PPF file. If you choose to do this, the 'Make Override Panel' will be displayed, from which you can then change various installation parameters, including the SFS directory names used to organize the HMF files. However, this panel does not support changing the name of the file pool with which these directories are associated—VMSYS.

VMSYS is the IBM default name for a file pool that's intended to be used for system data and programs that are to be shared among users. See the *VM/ESA CMS Planning and Administration Guide* for more information about the VMSYS file pool and its characteristics.

If you intend change *only* the VMSYS file pool name, you'll need to manually create a PPF override for the :DCL. section of the 5684157A \$PPF file *before* you install HMF, as described in 6.2.3, "Install HMF Using the VMFINS EXEC" on page 22.

If you intend to change the VMSYS file pool name in addition to other installation parameters, you should first create a PPF override file during 6.2.1, "Plan Your Installation," step 6 to change those parameters, then modify the resulting \$PPF override file to account for the VMSYS-related changes.

Note: Do **not** modify the product supplied 5684157A \$PPF or 5684157A PPF files to change the VMSYS file pool name or any other installation parameters. If the 5684157A \$PPF file is serviced, the existing \$PPF file will be replaced, and any changes to that file will be lost; by creating your own \$PPF override, your updates will be preserved.

The following process describes changing the default file pool name, VMSYS to MYPOOL1:

- 1 Create a new \$PPF override file, or edit the override file created via the 'Make Override Panel' function.

xedit *overname \$ppf fm2*

overname is the PPF override file name (such as "myhmf") that you want to use.

fm is an appropriate file mode. If you create this file yourself, specify a file mode of A.

If you modify an existing override file, specify a file mode of A or D, based on where the file currently resides (A being the file mode of a R/W 191 minidisk, or equivalent; D, that of the MAINT 51D minidisk).

- 2 Create (or modify as required) the Variable Declarations (:DCL.) section for the HMFISFS override area, so that it resembles the :DCL. section shown in Figure 25. This override will be used for the installation of HMF.

```

:OVERLST. HMFISFS
*
* =====
* Override Section for Initial Installation (Using SFS Directories) *
* =====
:HMFISFS. HMFISFS 5684157A
:DCL. REPLACE
&INST191 DIR MYP00L1:P684157A.          * P684157A A-mode work space
&BAS1Z  DIR MYP00L1:P684157A.HMF.BASE   * HMF Product BASE files
&SAMPZ  DIR MYP00L1:P684157A.HMF.LOCALMOD * HMF LOCAL modifications
&DELTZ  DIR MYP00L1:P684157A.HMF.DELTA  * HMF Service files
&APPLX  DIR MYP00L1:P684157A.HMF.APPLYALT * HMF Alternate APPLY files
&APPLZ  DIR MYP00L1:P684157A.HMF.APPLYPRD * HMF Production APPLY files
&BLD2X  DIR MYP00L1:P684157A.HMF.BUILDCMN * Alt. Build: General Access
&BLD1X  DIR MYP00L1:P684157A.HMF.BUILDPRV * Alt. Build: Privileged Access
&BLD1Z  DIR MYP00L1:P684157A.HMF.PRIVUSER * Prd. Build: Privileged Access
&HELP   DIR MYP00L1:P684157A.HMF.HELPAE * Alt. Build: CMS HELP
&BOOK   DIR MYP00L1:P684157A.HMF.BUILDDOC * Alt. Build: Online Documentation
&DISK11 DIR MYP00L1:HMFserve            * HMFserve server A-mode work space
&DISK12 DIR MYP00L1:HRM                  * HRM server A-mode work space
*
&HMFID1 USER P684157A
&HMFID2 USER HMFserve
&HMFID3 USER HRM
:EDCL.
:END.
*
*

```

Figure 25. Sample SFS Installation Override. This override will replace the :DCL. section of the HMFISFS override area of the 5684157A \$PPF file.

- 3 Create a similar :DCL. section within this file for the HMFISFS override area; this override will be used when HMF is serviced.

The changes or additions you need to make are shown in Figure 26 on page 64 in **bold** print; significant sections are marked with call-outs (such as **2**, where additions are required).

```

:OVERLST. HMFISFS HMF5FS
*
* =====
* Override Section for Initial Installation (Using SFS Directories) *
* =====
:HMFISFS. HMFISFS 5684157A
:DCL. REPLACE
&INST191 DIR MYP00L1:P684157A.          * P684157A A-mode work space
&BAS1Z  DIR MYP00L1:P684157A.HMF.BASE   * HMF Product BASE files
&SAMPZ  DIR MYP00L1:P684157A.HMF.LOCALMOD * HMF LOCAL modifications
&DELTZ  DIR MYP00L1:P684157A.HMF.DELTA   * HMF Service files
&APPLX  DIR MYP00L1:P684157A.HMF.APPLYALT * HMF Alternate APPLY files
&APPLZ  DIR MYP00L1:P684157A.HMF.APPLYPRD * HMF Production APPLY files
&BLD2X  DIR MYP00L1:P684157A.HMF.BUILDCMN * Alt. Build: General Access
&BLD1X  DIR MYP00L1:P684157A.HMF.BUILDPRV * Alt. Build: Privileged Access
&BLD1Z  DIR MYP00L1:P684157A.HMF.PRIVUSER * Prd. Build: Privileged Access
&HELP   DIR MYP00L1:P684157A.HMF.HELPAME * Alt. Build: CMS HELP
&BOOK   DIR MYP00L1:P684157A.HMF.BUILDDOC * Alt. Build: Online Documentation
&DISK11 DIR MYP00L1:HMF5SERVE           * HMF5SERVE server A-mode work space
&DISK12 DIR MYP00L1:HRM                 * HRM server A-mode work space
*
&HMFID1 USER P684157A
&HMFID2 USER HMF5SERVE
&HMFID3 USER HRM
:EDCL.
:END.                                * End of definitions for HMFISFS
*
* =====
* Override Section for HMF in a SFS Environment *
* =====
:HMF5FS. HMF5FS 5684157A
:DCL. REPLACE
&INST191 DIR MYP00L1:P684157A.          * P684157A A-mode work space
&BAS1Z  DIR MYP00L1:P684157A.HMF.BASE   * HMF Product BASE files
&SAMPZ  DIR MYP00L1:P684157A.HMF.LOCALMOD * HMF LOCAL modifications
&DELTZ  DIR MYP00L1:P684157A.HMF.DELTA   * HMF Service files
&APPLX  DIR MYP00L1:P684157A.HMF.APPLYALT * HMF Alternate APPLY files
&APPLZ  DIR MYP00L1:P684157A.HMF.APPLYPRD * HMF Production APPLY files
&BLD2X  DIR MYP00L1:P684157A.HMF.BUILDCMN * Alt. Build: General Access
&BLD1X  DIR MYP00L1:P684157A.HMF.BUILDPRV * Alt. Build: Privileged Access
&BLD1Z  DIR MYP00L1:P684157A.HMF.PRIVUSER * Prd. Build: Privileged Access
&HELP   DIR MYP00L1:P684157A.HMF.HELPAME * Alt. Build: CMS HELP
&BOOK   DIR MYP00L1:P684157A.HMF.BUILDDOC * Alt. Build: Online Documentation
&DISK11 DIR MYP00L1:HMF5SERVE           * HMF5SERVE server A-mode work space
&DISK12 DIR MYP00L1:HRM                 * HRM server A-mode work space
*
&HMFID1 USER P684157A
&HMFID2 USER HMF5SERVE
&HMFID3 USER HRM
:EDCL.
:END.                                * End of definitions for HMF5FS
*

```

Figure 26. Sample SFS Installation and Service Override. This override contains sections that will replace the :DCL. section of the HMFISFS and HMF5FS override areas of the 5684157A \$PPF file.

- 4 Ensure the HMFISFS *and* HMFSSFS component IDs have been specified following the :OVERLST. tag (**1** in Figure 26 on page 64), then save (file) your changes.

If your \$PPF override file was created at file mode A, copy it to file mode D—the Software Inventory minidisk (MAINT 51D).

file

copyfile *overname* \$ppf fm = = d (olddate

- 5 Compile your changes to create the usable *overname* PPF file. You need to do this *twice*, so that the appropriate overrides are implemented for both installation and service.

vmfppf *overname* **hmfisfs**

where *overname* is the file name of your \$PPF override file.

Use of the **hmfisfs** component ID will create the HMFISFS component section necessary for installing HMF.

vmfppf *overname* **hmfsfs**

Use of the **hmfsfs** component ID will create the HMFSSFS component section, for use in servicing hmf.

Now that the *overname* PPF file has been created, you should specify *overname* instead of 5684157A as the PPF name to be used for those VMSES/E commands that require a PPF name.

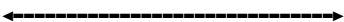
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1	2	3	4	5		N

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Time required to install the product	1	2	3	4	5	N
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Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
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Ease of installing service	1	2	3	4	5	N

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 - ☐ SystemPac
- ☐ System Delivery Offering (SDO)
- ☐ Other - Please specify type: _____

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 - ☐ Yes
 - ☐ No
- Were the people who did the installation experienced with the installation of VM products using VMSES/E?
 - ☐ Yes

How many years of experience do they have? _____
 - ☐ No
- How long did it take to install this product? _____
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