# ALL–IN–1/Hanyu Version 3.2 Installation Guide

Order Number: AA-PS7ZB-TE

**June 1996**

This manual provides information on the installation of ALL–IN–1/Hanyu Version 3.2.

| | |
|---|---|
| **Operating System & Version:** | OpenVMS/Hanyu VAX Version 6.1 and OpenVMS/Hanyu Alpha Version 6.1 |
| **Software Version:** | ALL–IN–1/Hanyu Version 3.2 |

**June 1996**

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# Preface

## Product Description

ALL–IN–1/Hanyu is a customizable, menu-oriented software product that provides generic office applications and a facility for integrating with other business-oriented applications.

## Purpose of this Guide

The purpose of this Guide is to provide information on the installation of the ALL–IN–1/Hanyu V3.2 software product. Please note that this Guide, by itself, does not provide complete information on installation. Section 5 gives a roadmap on all manuals related to ALL–IN–1/Hanyu V3.2 installation.

## Related Documents

Other documents related to ALL–IN–1/Hanyu V3.2 are :

- *ALL–IN–1/Hanyu V3.2 Release Notes*
- *ALL–IN–1/Hanyu User's Guide*
- *ALL–IN–1/Hanyu V3.2 Read Me First*
- *Keyboard Reference Card*
- *Keyboard Diagram*

## Document Structure

This Installation Guide is divided into three main parts.

*Part I, BASE INSTALLATION*
This part describes only specifics of ALL–IN–1/Hanyu V3.2 installation. To successfully install ALL–IN–1/Hanyu V3.2, you must first read *ALL–IN–1 Installation: Guide* from the standard ALL–IN–1 V3.2 documentation set.

*Part II, LANGUAGE AND MARKET INSTALLATION*
This part contains language-specific information on the Hanyu and American English language components that you are installing. It also contains information on the Taiwan Market component which overrides *ALL–IN–1 Installation: Language and Market Supplement* that belongs to the standard ALL–IN–1 V3.2 documentation set.

*Part III, DEC FMS/Hanyu INSTALLATION*
This part describes installation of DEC FMS/Hanyu V2.4. Note that you must install this product before you install ALL–IN–1/Hanyu on an Alpha machine.

## Installation Roadmap

To fully understand and successfully install ALL–IN–1/Hanyu V3.2, all of the following manuals are required. Before installation, make sure you read these in the following recommended order:

- *ALL–IN–1 Overview and Planning Guide*
- *ALL–IN–1 Installation: Guide*
- *ALL–IN–1/Hanyu V3.2 Installation Guide* (this manual)

# Part I

## BASE INSTALLATION

This is Part I of three parts. See the section on document structure. It describes the installation differences between ALL–IN–1/Hanyu V3.2 and standard ALL–IN–1 V3.2. To carry out the installation of the product, you should first read *ALL–IN–1 Installation: Guide*.

# 1

# Preparing to Install ALL–IN–1/Hanyu V3.2

## 1.1 Installation Types

The following types of installation are supported in this release.

- Full installation of ALL–IN–1/Hanyu Version 3.2 on a VAX or an Alpha System.
- Upgrade installation of ALL–IN–1/Hanyu Version 3.0 or Version 3.0a to ALL–IN–1/Hanyu Version 3.2 on a VAX.
- Upgrade installation of standard ALL–IN–1 Version 3.1 to ALL–IN–1 /Hanyu Version 3.2 on a VAX or an Alpha System.
- Addition of VAX or Alpha architecture support for ALL–IN–1/Hanyu Version 3.2 on a different architeture in the same VMXcluster.

**Note**

You can only upgrade to ALL–IN–1/Hanyu V3.2 using the same default language as that on your current system. This means that if your current system is running ALL–IN–1 V3.1, the default language would be English. In this case, you must install ALL–IN–1/Hanyu V3.2 using English as the main installation language (the default language). Hanyu will be installed as an additional language.

## 1.2 Software Prerequisites

The following software must be installed on your system:

**Table 1–1 Prerequistic Software**

| Software Product | VAX Version | Alpha Version | Supplied With Kit? | Notes |
|---|---|---|---|---|
| OpenVMS/Hanyu VAX | 6.1 | - | N | **Prerequisite** for installation on VAX. Must be a full untailored system |
| OpenVMS/Hanyu Alpha | - | 6.1 | N | **Prerequisite** for installation on Alpha. Must be a full untailored system |
| DECnet Phase IV | 5.5 | 1.5 | N | **Prerequisite** |
| or | | | | |
| DECnet OSI for OpenVMS | 6.2 | 6.2 | N | **Prerequisite** |
| VAX Forms Management System (CFMS)† | 2.3 | - | Y | **Prerequisite** |
| DEC Forms Management System (CFMS)‡ | - | 2.4 | Y | **Prerequisite** |

†See the *VAX CFMS Installation Guide and Release Notes*
‡See Part III of this guide. Note that CFMS V2.4 is not a released product.

## 1.3 Registering the ALL–IN–1/Hanyu Version 3.2 License

You must ensure that you have an ALLIN1-UI-HANYU license registered. If you are installing a new ALL–IN–1/Hanyu Version 3.2 system, then register your ALLIN1-UI-HANYU Version 3.2 software license using the VMS License Management Facility (LMF).

The license registration information you need is in the Product Authorization Key (PAK) supplied with ALL–IN–1/Hanyu Version 3.2. The PAK is a paper certificate that contains information about the license you must have in order to run a particular piece of software.

You must register your ALLIN1-UI-HANYU Version 3.2 license before you perform the installation. During the installation, you are asked if you have registered and loaded the ALLIN1-UI-HANYU Version 3.2 license.

The ALL–IN–1/Hanyu Version 3.2 installation checks for a registered license when it begins. If a license is not found, the installation terminates.

**Note**

You cannot use the Register Licenses for Prerequisite Products (RL) option offered at the beginning of the installation procedure, unless you have a valid ALLIN1-UI-HANYU license registered.

For complete information on using LMF, see the manual on the License Management Utility in the VMS documentation set.

## 1.4 Installation Order

The following installation order is recommended:

1. Install Hanyu FMS Version 2.3 and its accompanied MUPA, if it is not already installed on your VAX system.
2. Install Hanyu FMS V2.4 if it is not already installed on your Alpha system.
3. Install ACMS Version 3.1, or higher, if you want to incorporate it with ALL–IN–1/Hanyu Version 3.2.
4. Install DATATRIEVE Version 6.1, or higher, if you want to incorporate it with ALL–IN–1/Hanyu Version 3.2.
5. Install Message Router Version 3.3A, if you want to send and receive messages to and from other systems, or you want to use Mail directory addressing, or you want to send mail to VMSmail users, either on the local system or to remote systems.
6. Configure Message Router Version 3.3A, if it is installed and not yet configured.
7. Install Message Router VMSmail Gateway Version 3.3, if you want to send mail to VMSmail users, either on the local system or remotely.

8. Configure Message Router VMSmail Gateway Version 3.3, if it is installed and not yet configured.
9. Install CDA Converter Library Version 2.2(VAX only).
10. Install the CDA Interoperability kit, CDAPAT022.
11. Install VAX Notes Version 2.5.
12. Install ALL–IN–1/Hanyu Version 3.2.
13. Configure exception reporting routines for ALL–IN–1/Hanyu Version 3.2 Electronic Messaging subsystem.

**Note**

WPS–PLUS/Hanyu Version 4.2 is supplied with ALL–IN–1/Hanyu. If you choose to integrate WPS–PLUS with ALL–IN–1/Hanyu, it is available as the default editor in ALL–IN–1/Hanyu.

Make sure that the following shareable images and message files are installed on your system before installing ALL–IN–1/Hanyu:

- SYS$MESSAGE:CFDVMSG.EXE
- SYS$MESSAGE:CFDVMSGE.EXE
- SYS$SHARE:HSYSHR.EXE
- SYS$SHARE:CONVSHR.EXE
- SYS$SHARE:FDLSHR.EXE
- SYS$SHARE:CFDVSHR.EXE
- SYS$SHARE:LBRSHR.EXE
- SYS$SHARE:MTHRTL.EXE
  for a MicroVAX II, or a MicroVAX 2000, the file is SYS$SHARE:UVMTHRTL.EXE
- SYS$SHARE:NMLSHR.EXE
- SYS$SHARE:PASRTL.EXE
- SYS$SHARE:SCNRTL.EXE
- SYS$SHARE:SCRSHR.EXE
- SYS$SHARE:VMSRTL.EXE
- SYS$SHARE:VAXCRTL.EXE

- SYS$SHARE:HEDTSHR.EXE
- SYS$SHARE:DNS$SHARE.EXE
- SYS$SHARE:DNS$RTL.EXE

**Note**

If the images CFDVMSG.EXE, CFDVMSGE.EXE and CFDVSHR.EXE are not installed, execute the command procedure SYS$MANAGER:CFMSTARTUP.COM.

If the image HSYSHR.EXE is not installed, execute the command procedure SYS$MANAGER:HANYUSTARTUP.COM.

## 1.5 Update of ALL–IN–1 V3.2 to ALL–IN–1/Hanyu V3.2

If you are going to perform the update installation, do the following after you have completed the installation checklist described in *ALL–IN–1 Installation: Guide*.

a. Log into the ALLIN1 account

b. Rename all OA$LIB_SHARE:WPLCURR_*_*.MSG to OA$LIB_SHARE:OLD_WPLCURR_*_*.MSG

```
eg. RENAME OA$LIB_SHARE:WPLCURR_US_ENGLISH.MSG -
           OA$LIB_SHARE:OLD_WPLCURR_US_ENGLISH.MSG
```

c. Rename all OA$LIB_SHARE:WPLDATES_*_*.MSG to OA$LIB_SHARE:OLD_WPLDATES_*_*.MSG

```
eg. RENAME OA$LIB_SHARE:WPLDATES_US_ENGLISH.MSG -
           OA$LIB_SHARE:OLD_WPLDATES_US_ENGLISH.MSG
```

d. Rename all OA$LIB_SHARE:OAFORM_*_*.FLB to OA$LIB_SHARE:OLD_OAFORM_*_*.FLB

```
eg. RENAME OA$LIB_SHARE:OAFORM_US_ENGLISH.FLB -
           OA$LIB_SHARE:OLD_OAFORM_US_ENGLISH.FLB
```

## 1.6 Installing Additional Languages

ALL–IN–1/Hanyu V3.2 kit is supplied with the Hanyu and English language components. You can install either one or both.

If it is a new installation, you can install the languages in any order. The language that you install when the main ALL–IN–1/Hanyu V3.2 kit is installed becomes the default language of your system.

If you are upgrading/updating to ALL–IN–1/Hanyu V3.2, you can only upgrade /update using the same default language as that on your current system.

# 2
# Migration Tools

If you are upgrading from a previous version of ALL–IN–1 which is customized, you need to run the Conflict Checking and Resolution Tool (CART) before installing ALL–IN–1/Hanyu V3.2 in order to save your customization.

For detailed information on CART, refer to Chapter 6 of *ALL–IN–1 Overview and Planning Guide*.

# 3
# Installation Procedure

You must have DEC FMS/Hanyu installed before installing ALL–IN–1/Hanyu on an Alpha machine. Please refer to part III of this book for a full FMS/Hanyu installation.

Refer to the standard *ALL–IN–1 Installation: Guide* for the full installation procedure of the installation type that you are to perform.

# 4
# Post Installation Procedure

After the system has been successfully installed, attend to the post installation procedure described in Chapter 5 of *ALL–IN–1 Installation: Guide*.

## 4.1 Executing the ALL–IN–1 Startup Command Procedure

In addition to the standard procedures, make sure the ALL–IN–1 startup command procedure, A1V32START.COM, is executed after SYS$MANAGER:HANYUSTARTUP.COM and SYS$MANAGER:CFMSTARTUP.COM.

## 4.2 Setting WPS–PLUS attribute

For all ALL–IN–1 users who use WPS–PLUS as the default editor, SYS$MANAGER:A1WPSPLUS_LOGIN.COM must be executed before starting ALL–IN–1/Hanyu.

To automate the step, the following line should be added to SYS$MANAGER:SYLOGIN.COM :

```
$@SYS$MANAGER:A1WPSPLUS_LOGIN.COM
```

## 4.3 Setting Queue Characteristics for Printers

To set up your Hanyu printers, follow the instructions described in *ALL–IN–1 Installation: Guide*.

## 4.4 Converting WPS–PLUS/Hanyu Documents to ALL–IN–1

If your system is currently running WPS–PLUS/Hanyu and users want to access documents created with WPS–PLUS/Hanyu from within ALL–IN–1, each user must do the following:

**Note**

You must give each ALL–IN–1 user who wants to convert their WPS–PLUS/Hanyu documents the ALL–IN–1 DCL and CMD privileges. See *ALL–IN–1 Management Guide* for details of setting

these privileges. If you normally restrict this access, reset it after the conversion is complete.

---

1. Check that the directory containing the WPS–PLUS/Hanyu File Cabinet exists by entering the following command:

   ```
   $ DIRECTORY/PROTECTION disk:[username.CWPSPLUS...]*.*
   ```

   where:

   - *disk* is the name of the user's VMS disk
   - *username* is the VMS username

   The above command lists all the files in the WPS–PLUS/Hanyu account belonging to the user.

2. Make sure that all files have the following minimum protection:

   ```
   (S:RWD,O:RWE,,)
   ```

3. Run ALL–IN–1.
4. Enter WP to display the Word and Document Processing menu.
5. Enter the following command:

   ```
   <DO OA$DO:WPCOPY
   ```

6. Enter the full directory specification of the WPS–PLUS/Hanyu File Cabinet (for example, USER2:[HUDSON.CWPSPLUS]) at the following prompt:

   ```
   Enter directory of old File Cabinet : USER2:[HUDSON.CWPSPLUS]
   ```

7. Enter the full directory specification of the ALL–IN–1 File Cabinet (for example, USER2:[HUDSON.A1]) at the following prompt:

   ```
   Enter directory of new File Cabinet : USER2:[HUDSON.A1]
   ```

   **Note**

   You cannot have both the ALL–IN–1 and WPS–PLUS/Hanyu versions of the DOCDB.DAT files in the same VMS directory.

   ---

8. Enter A to copy all documents at once, or C to check before each file is copied, at the prompt:

   ```
   Copy All documents at once or Check each one <A/C> :
   ```

   When the conversion is complete, ALL–IN–1 returns you to the Word and Document Processing menu.

9. To convert your User Defined Process [.UDP] files, do the following:

   a. From the Word and Document Processing menu, enter $.

      ALL–IN–1 places you in the sub-process.

   b. Enter the following command:

      ```
      $ COPY/LOG [username.CWPSPLUS]*.UDP [.UDP]*.*
      ```

      where *username* is the VMS user's directory, as recorded in the SYS$SYSTEM:SYSUAF.DAT file.

   c. When the copying is finished, press EXIT to return to ALL–IN–1.

**Note**

If you want to use the converted documents when using ALL–IN–1, your default editor must be WPS–PLUS.

# Part II

## Language and Market Installation

This part describes information specific to your ALL–IN–1/Hanyu V3.2 Hanyu and English language components. Each language component can be installed either as part of the main ALL–IN–1/Hanyu installation procedure or as an additional language. For details, see *ALL–IN–1 Installation: Guide* and Part I of this book.

*ALL–IN–1 Installation: Guide* refers to information contained in this document.

# 5
# Hanyu Language Installation

## 5.1 Distribution Media

Your ALL–IN–1/Hanyu V3.2 Hanyu language kit contains the Hanyu language component.

The software for the ALL–IN–1/Hanyu Hanyu Language kit is on the distribution media labeled:

```
ALL-IN-1/Hanyu V3.2 Hanyu BIN media_type LANGUAGE COMPONENT
   (c) 1996 Digital Equipment Corp.
```

where media_type is 16MT9 for tape and TK50 for a TK50 cartridge.

The ALL–IN–1/Hanyu V3.2 Hanyu Language kit contains:

| Saveset | Description |
|---|---|
| A1LHA032.A | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.B | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.C | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.D | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.E | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.F | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.G | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.H | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.I | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.J | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.K | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.L | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |
| A1LHA032.M | ALL–IN–1/Hanyu V3.2 Hanyu Language kit |

## 5.2 Useful Information for the Hanyu Language Component

Table 5-1 lists useful information for the Hanyu language version of ALL–IN–1 /Hanyu V3.2 and where the information is used and Table 5-2 lists the disk space requirement on the System Disk for different installation types.

**Table 5–1 Useful Information for the Hanyu Language Component**

| Information | Value | Use |
|---|---|---|
| Product name | A1LHA032 | Installation |
| Language name | Hanyu | File, directory and logical names, and for the /LANGUAGE qualifier |
| Language code | HA | During installation |
| Language component kit size (blocks) | 50,000 | VAX Installation |
| | 55,000 | Alpha Installation |

**Table 5–2 Disk Space Required on the System Disk or AWD(Blocks)**

| Installation Type | VAX | | Alpha | |
|---|---|---|---|---|
| | Safety | Non-safety | Safety | Non-safety |
| Hanyu as the primary language | 165 000 | 40 000 | 220 000 | 60 000 |
| Addition of architecture support for Hanyu as the primary language | 55 000 | 30 000 | 125 000 | 60 000 |
| Hanyu as an additional language | 77 000 | 30 000 | 83 000 | 30 000 |
| Addition of architecture support for Hanyu as an additional language | 12 000 | 10 000 | 20 000 | 14 000 |

## 5.3 Optional Products

You can integrate the following optional products with ALL–IN–1/Hanyu:

- VAX Grammar Checker Version 1.0 (VAX Only)
- American Business Lexicon for OpenVMS
- American Medical Lexicon for OpenVMS

See *Language and Specialized Lexicons Installation Guide* for instructions on installing the lexicons and the Software Product Description for the supported versions.

## 5.4 Taiwan Market/Country Component

The Taiwan market/country component contains:

| Saveset | Description |
|---|---|
| A1CPR032.A | ALL–IN–1/Hanyu V3.2 Taiwan market/country kit |
| A1CPR032.B | ALL–IN–1/Hanyu V3.2 Taiwan market/country kit |
| AICPR032.C | ALL–IN–1/Hanyu V3.2 Taiwan market/country kit |

### 5.4.1 Useful Information for the Taiwan Market/Country Component

Table 5-3 lists the useful information for the Taiwan market/country component of ALL–IN–1/Hanyu V3.2.

**Table 5–3 Useful Information for the Taiwan Market/Country Component**

| Information | Value | Use |
|---|---|---|
| Product name | A1CPR032 | Installation and naming of savesets |
| Market name | Taiwan | Media labeling |
| Market code | TA | During installation |
| ALL–IN–1 date format: | | |
| Alphanumeric | DD-MMM-YYYY | ALL–IN–1 |
| Numeric | MM/DD/YY | ALL–IN–1 |
| WPS–PLUS date format | DD.MM.YY | WPS–PLUS |
| WPS–PLUS time separator | colon(:) | WPS–PLUS |
| Currency format: | | |
| Currency symbol | $ | ALL–IN–1 |
| Decimal separator | dot (.) | ALL–IN–1 |
| Thousand separator | comma (,) | ALL–IN–1 |

(continued on next page)

**Table 5–3 (Cont.) Useful Information for the Taiwan Market/Country Component**

| Information | Value | Use |
|---|---|---|
| Page size | 66 | Printer settings |

## 5.5 Modems Supported

The autodial feature of the modems listed in Table 5-4 is supported. You can disable this feature by customizing OAMARKET.BLI.

**Table 5–4 Autodial Modems Supported by ALL–IN–1**

| Manufacturer | Model Number |
|---|---|
| Digital | DF02-AC |
| Digital | DF03-AC |
| Digital | DF100 series |
| Case | 440/12 |
| Racal-Milgo | MPS1222-AD |
| Racal-Milgo | MPS1222 with Racal-Vadic VA811 |

In addition, all BELL 212A/103 compatible modems and modems meeting CCITT V21 and V22 recommendations are supported as manual-dial modems.

Refer to the manuals provided with the modems for information on installing and using modems.

# 6
# English Language Installation

## 6.1 Distribution Media

Your ALL–IN–1/Hanyu V3.2 English language kit contains the American English language component of the ALL–IN–1/Hanyu V3.2 kit. It includes the American Language Lexicon.

**Note**

ALLIN1-UI-HANYU license enables you to run English language variant of ALL–IN–1/Hanyu without a separate license.

The software for the ALL–IN–1/Hanyu English Language component kit is on the distribution media labeled:

```
ALL-IN-1/Hanyu V3.2 ENGLISH BIN media_type LANGUAGE COMPONENT
   (c) 1996 Digital Equipment Corp.
```

where media_type is 16MT9 for tape and TK50 for a TK50 cartridge.

*ALL–IN–1 Release Notes Part 1 English Language* is also included on the above distribution media. This Release Notes contains information on the standard ALL–IN–1 V3.2 software only. For release notes information on the Hanyu specific features, refer to *ALL–IN–1/Hanyu V3.2 Release Notes*.

The ALL–IN–1/Hanyu V3.2 English Language kit contains:

| Saveset | Description |
|---|---|
| A1LUS032.A | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.B | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.C | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.D | ALL–IN–1/Hanyu V3.2 English Language kit |

| Saveset | Description |
|---|---|
| A1LUS032.E | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.F | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.G | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.H | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.I | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.J | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.K | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.L | ALL–IN–1/Hanyu V3.2 English Language kit |
| A1LUS032.M | ALL–IN–1/Hanyu V3.2 English Language kit |

## 6.2 Useful Information for the English Language Component

Table 6-1 lists the useful information for the American English language component of ALL–IN–1/Hanyu V3.2 and where the information is used.

**Table 6–1 Useful Information for the English Language Component**

| Information | Value | Use |
|---|---|---|
| Product name | A1LUS032 | Installation |
| Language name | English | File, directory and logical names, and for the /LANGUAGE qualifier |
| Language code | US | During installation |
| Language component kit size (blocks) | 50,000 | VAX Installation |
| | 55,000 | Alpha Installation |

**Table 6–2 Disk Space Required on the System Disk or AWD(Blocks)**

| Installation Type | VAX | | Alpha | |
|---|---|---|---|---|
| | Safety | Non-safety | Safety | Non-safety |
| English as the primary language | 165 000 | 40 000 | 230 000 | 60 000 |

(continued on next page)

**Table 6–2 (Cont.) Disk Space Required on the System Disk or AWD(Blocks)**

| Installation Type | VAX | | Alpha | |
|---|---|---|---|---|
| | Safety | Non-safety | Safety | Non-safety |
| Addition of architecture support for English as the primary language | 55 000 | 30 000 | 125 000 | 60 000 |
| English as an additional language | 77 000 | 30 000 | 83 000 | 30 000 |
| Addition of architecture support for English as an additional language | 12 000 | 10 000 | 20 000 | 14 000 |

## 6.3 Market/Country component

The English language component of ALL–IN–1/Hanyu V3.2 use the same Taiwan Market component as the Hanyu language. Refer to section 5.4 of this manual.

# Part III

## DEC FMS/Hanyu Installation

This section describes how to install Hanyu Forms Management System (CFMS) for OpenVMS/Alpha Version 2.4. Please read the online realease notes for new features, bug fixes and restrictions of DEC FMS/Hanyu for OpenVMS/Alpha Version 2.4.

You should read this section before installing Hanyu FMS software.

To install Hanyu FMS software, you must have access to a privileged account. To run the Installation Verification Procedure (IVP), you must use a VT100, VT200 or VT382 Hanyu-series terminal or one that is VT100-compatible.

This part consists of four chapters and two appendices:

| | |
|---|---|
| Chapter 7 | describes the preparations and requirements necessary for installing Hanyu FMS software. |
| Chapter 8 | describes the Hanyu FMS installation procedure. |
| Chapter 9 | describes the tasks to perform after installing Hanyu FMS software. |
| Chapter 10 | describes the postinstallation IVP. |
| Appendix A | reproduces typical installation and IVP sessions. |
| Appendix B | details the files that are installed or modified. |

# 7

# Preparing to Install Hanyu FMS Software

This chapter discusses the preparations and requirements necessary to install Hanyu FMS software.

Hanyu FMS provides online release notes. You can read and print the release notes before the Hanyu FMS installation begins, when you first run the installation procedure. Digital Equipment Corporation strongly recommends that you read the release notes before proceeding with the installation.

## 7.1 Prerequisite and Optional Software

This section discusses the software you must have installed on your system before installing Hanyu FMS software. The section also includes information about software that you can use together with Hanyu FMS software.

DEC FMS/Hanyu Version 2.4 requires OpenVMS/Hanyu for Alpha Version 6.1 operating system.

If the optional software uses CDD/Plus software, or if DBMS software is to be part of the system, you should install those products before you install Hanyu FMS. CDDSHR.EXE must always be installed using the Install Utility.

## 7.2 Prerequisite Hardware

To run the IVP, you must have a video terminal. See Chapter Chapter 9 for more information on the postinstallation IVP.

## 7.3 License Registration

The VMS License Management Facility (LMF) is available with OpenVMS/Hanyu Alpha Version 6.1 operating system. If you are installing Hanyu FMS on a OpenVMS/Hanyu Alpha Version 6.1 system, you must register your software license. [1]

[1] Hanyu FMS software can be installed without registering the CFMS license. However, the IVP is not executed without a license registration. In addition, the CFMS utilities and applications using the Form Driver are not run until a license is properly

The license registration information you need is contained in the Product Authorization Key (PAK) that is shipped with ALL–IN–1/Hanyu. The PAK is a paper certificate that contains information about the license you own to run a particular piece of software.

During the installation, you are asked if you have registered the required ALL–IN–1 license, namely ALLIN1-UI-HANYU. You must register and load this license for Hanyu FMS before you start the installation in order to run the IVP and use the software.

## 7.4 Installation Procedure Requirements

The following sections discuss various requirements for installing Hanyu FMS software.

### 7.4.1 Restrictions

No users should be logged in to the system while you are installing Hanyu FMS software. You can use the REPLY command to send a message to users. For example:

```
$ REPLY/ALL "Please log off now. Installing CFMS."
```

If VMSINSTAL detects any users on the system, it gives you an opportunity to stop the installation procedure by prompting you to continue. To stop the installation, press RETURN.

### 7.4.2 Time

The installation takes approximately 5 to 10 minutes, depending on the type of media and your system configuration.

### 7.4.3 Privileges

To install Hanyu FMS, you must be logged in to an account that has SETPRV or at least the following privileges:

- CMKRNL
- WORLD
- SYSPRV

VMSINSTAL turns off BYPASS privilege at the start of the installation.

registered.

### 7.4.4 Disk Space

Installing Hanyu FMS requires a certain amount of free disk space during the installation. Once Hanyu FMS is installed, less storage space is required. Table 7–1 summarizes the storage requirements.

**Table 7–1 CFMS Disk Space Requirements**

| kit | Blocks During Installation | Blocks After Installation |
|---|---|---|
| DEC FMS/Hanyu Version 2.4 | 3000 | 2650 |
| Hanyu FMS FDV Version 2.4 | 350 | 300 |

To determine the number of free disk blocks on the current system disk, enter the following command:

```
$ SHOW DEVICE SYS$SYSDEVICE
```

### 7.4.5 System Parameters

Installing Hanyu FMS requires certain system parameter settings. Table 7–2 lists the minimum required system parameter values for the installation. Depending on the kinds of programs and applications running at your site, you might need higher values for some settings.

**Table 7–2 CFMS Required System Parameter Values**

| System Parameter | Value |
|---|---|
| GBLPAGES[1] | n + 250 |
| GBLSECTIONS[1] | n + 4 |

[1]The n variable refers to the system parameter values currently in use. To install Hanyu FMS software, you must raise those values by the number indicated.

To check the values of your system parameters, invoke the System Generation Utility.

### 7.4.6 Process Account Quotas

The account you use to install Hanyu FMS software must have sufficient quotas to enable you to perform the installation. Table 7–3 summarizes the process quotas required for the installation account.

**Table 7–3 CFMS Process Account Quotas for the Installing Account**

| Account Quota | Value |
|---|---|
| ASTLM | 24 |
| BIOLM | 18 |
| BYTLM | 18,000 |
| DIOLM | 18 |
| ENQLM | 30 |
| FILLM | 20 |

User account quotas are stored in the file SYSUAF.DAT. You use the VMS Authorize Utility to verify and change user account quotas.

For more information on modifying account quotas, see the description of the Authorize Utility in the VMS documentation set.

### 7.4.7 VMSINSTAL Requirements

When you invoke VMSINSTAL, it checks whether:

- You have set your default device and directory to SYS$UPDATE
- You are logged in to a privileged account
- You have adequate process account quotas for installation
- DECnet software is up and running
- Any users are logged in to the system

VMSINSTAL requires that the installation account have a minimum of quotas as tabulated in Table 7–3.

If VMSINSTAL detects any problems during the installation, it notifies you and asks if you want to continue the installation. In some instances, you can enter YES to continue. To stop the installation and correct the situation, enter NO or press RETURN. Correct the problem and restart the installation.

### 7.4.8 Backing Up Your System Disk

At the beginning of the installation, VMSINSTAL asks if you have backed up your system disk. Digital recommends that you back up your system disk before installing any software.

Use the backup procedures that have been established at your site. For details on backing up a system disk, see the section on the Backup Utility in the VMS documentation set.

# 8
# Installing Hanyu FMS Software

This chapter describes how to install Hanyu FMS software. Section 8.2 contains a step-by-step description of the installation procedure.

## 8.1 General Information

This section includes information about accessing release notes, determining what files and logical names are added to your system, running the Installation Verification Procedure (IVP), and ending the installation abnormally.

### 8.1.1 Accessing the Online Release Notes

Hanyu FMS provides online release notes. You should review the release notes in case they contain any information about changes in the installation procedure.

If you want the installation procedure to give you an opportunity to display or print the online release notes, you must specify OPTIONS N when you invoke VMSINSTAL. This question comes near the beginning of the installation.

Once Hanyu FMS has been installed, the release notes are located in the following file:

```
SYS$HELP:DECFMS024.RELEASE_NOTES
```

Online help also directs you to the release notes file. After the installation, you can enter the following command to review the release notes through the Help Facility:

```
$ HELP CFMS RELEASE_NOTES
```

### 8.1.2 Determining the Files and Logical Names Added to the System

Appendix A and Appendix B of the online release notes list the files added, replaced, or modified on your system when Hanyu FMS is installed.

Hanyu FMS adds only one logical name CFMS$EXAMPLES to the system when it is installed. Appendix A as well as Appendix A of the online release notes list the files associated with CFMS$EXAMPLES.

### 8.1.3 Running the Installation Verification Procedure

The IVP for Hanyu FMS verifies the installation. During the installation, you are asked if you want to run the IVP as part of the installation. If you respond YES, VMSINSTAL runs the IVP. It is recommended that you run the IVP to be sure that Hanyu FMS is installed correctly.

After Hanyu FMS is installed, you can run the IVP independently to verify that the software is available on your system. You might also want to run the IVP after a system failure to be sure that users can access Hanyu FMS.

Because of their interactive nature, the Form Editor and the Form Tester must be tested manually on a VT382 Hanyu-compatible terminal. To verify the installation of the Form Editor and Form Tester, see the procedure explained in Chapter Chapter 10.

### 8.1.4 Ending the Installation Abnormally

To end the installation procedure abnormally at any time, press CTRL/Y. When you press CTRL/Y, the installation procedure deletes all files it has created and exits. You then can start the installation again.

## 8.2 Installation Procedure

The Hanyu FMS installation procedure consists of a series of questions, prompts, and informational messages. The following sections explain how to invoke VMSINSTAL and answer the installation questions. These sections also explain the informational messages displayed by the procedure.

### 8.2.1 Invoking VMSINSTAL

To start the installation, invoke the VMSINSTAL command procedure from a privileged account, such as the SYSTEM account. VMSINSTAL is in the SYS$UPDATE directory. To invoke VMSINSTAL, enter a command with the following syntax:

```
@SYS$UPDATE:VMSINSTAL product-name device-name OPTIONS N
```

product-name
The installation name for the product. For Hanyu FMS software, use the following installation name:

```
CFMS024
```

device-name
The name of the device on which you plan to mount the media. For example, DKA400: is the device name for a CD-ROM drive. It is not necessary to use the console drive for this installation. However, if you do use the console

drive, you should replace any media you have removed once the installation is complete.

OPTIONS N
An optional parameter that indicates you want to see the question on the release notes. If you do not include the OPTIONS N parameter, VMSINSTAL does not ask you about the release notes.

There are several other options you can select when you invoke VMSINSTAL. For information on these options, see the VMS documentation on software installation

The following example displays the command that invokes VMSINSTAL to install Hanyu FMS from CD-ROM drive DKA400: and shows the system response. This example uses the OPTIONS N parameter.

```
$ @SYS$UPDATE:VMSINSTAL CFMS024 DKA400: OPTIONS N

   OpenVMS ALPHA Software Product Installation Procedure V6.1-1H1

It is 14-NOV-1995 at 10:15.
Enter a question mark (?) at any time for help.
```

If you omit either the product name or the device name, VMSINSTAL asks you for this information later.

### 8.2.2 Answering Installation Questions

This section discusses the questions that appear during the installation. Appendix A contains a sample installation procedure showing how the questions can be answered.

An asterisk (*) marks the beginning of each question. Some questions show the default response in brackets, for example, [YES]. To use the default response, press RETURN.

## Installing Hanyu FMS Software
## 8.2 Installation Procedure

1. Shut down DECnet.

```
%VMSINSTAL-W-DECNET, Your DECnet network is up and running.
    .
    .
    .
* Do you want to continue anyway [NO]?
```

   You should install Hanyu FMS on a standalone system or cluster with DECnet shut down. VMSINSTAL notifies you if DECnet is running and displays a list of all active processes. The procedure then asks if you want to continue the installation. NO is the default response to the question.

2. Confirm system backup.

```
* Are you satisfied with the backup of your system disk [YES]?
```

   VMSINSTAL asks if you are satisfied with your system backup. You should always back up your system disk before performing an installation. If you are satisfied with the backup of your system disk, press RETURN. Otherwise, enter NO to stop the installation. After you back up your system disk, you can restart the installation.

3. Mount the media.

```
Please mount the first volume of the set on DKA400:.
* Are you ready? YES
%MOUNT-I-MOUNTED, DECCFMS MOUNTED ON _$$DKA400:
The following products will be processed:
  CFMS V2.4

    Beginning installation of CFMS V2.4 at 10:30

%VMSINSTAL-I-RESTORE, Restoring product saveset A...
```

   You should now mount the first distribution volume on the device you specified when you invoked VMSINSTAL. The device name appears in the line preceding the question "Are you ready?". VMSINSTAL then asks you if you are ready to continue with the installation.

   If you respond YES to indicate that you are ready, VMSINSTAL displays a message that the media containing Hanyu FMS has been mounted on the specified device and that the installation has begun.

   If you entered the wrong device name when you invoked VMSINSTAL and need to restart the installation, enter NO in response to the "Are you ready?" question. To end the installation abnormally for other reasons, press CTRL/Y.

4. Select a release notes option.

```
Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  Copy release notes to SYS$HELP
 5.  Do not display, print or copy release notes

* Select option [2]:
```

If you specified OPTIONS N when you invoked VMSINSTAL, you have five options for reviewing the release notes.

If you select option 1, VMSINSTAL displays the release notes immediately on your terminal. To terminate the display at any time, press CTRL/C.

If you select option 2, VMSINSTAL asks you for the name of the print queue that you want to use:

```
* Queue name [SYS$PRINT]:
```

You can press RETURN to print the release notes on the default output print device or you can enter another queue name. Option 2 is the default.

If you select option 3, VMSINSTAL displays the release notes immediately on the terminal and then asks you for a queue name for the printed version.

If you select option 4, the installation copies the release notes to the Help directory. Even if you do not select option 4, the release notes for Hanyu FMS are copied to the SYS$HELP directory.

Select option 5 if you have already reviewed the release notes.

5. Continue the installation.

```
* Do you want to continue the installation [N]?: YES
%VMSINSTAL-I-RELMOVED, The product's release notes have been
successfully moved to SYS$HELP.
```

To continue, enter YES. Otherwise, press RETURN. In either case, the release notes are copied to the following file in the SYS$HELP directory.

The release notes are located in the following file:

```
SYS$HELP:DECFMS024.RELEASE_NOTES
```

**Note**

The name of the release notes file installed by VMSINSTAL consists of the current product name and version number. Do not delete release notes for previous versions of Hanyu FMS software.

6. Register your license.

```
This is a special FMS/Hanyu kit which comes with ALL-IN-1/Hanyu kit and
requires ALLIN1-UI-HANYU license to operate.

Product:       ALLIN1-UI-HANYU
Producer:      DEC
Version:       3.2
Release Date:  17-OCT-1995

* Does this product have an authorization key registered
and loaded?
```

   As FMS/Hanyu V2.4 is not a released product, the installation procedure displays license information about ALL–IN–1/Hanyu and then asks if you have registered and loaded the authorization key.

   If you have not registered and loaded your authorization key, you must answer NO to this question. You have to register and load your product authorization key to complete the installation. If you have not done so, you should stop the installation, register and load your product authorization key, and restart the installation.

7. Run the IVP.

```
* Do you want to run the IVP after the installation
[YES]?
```

   The installation procedure now asks if you want to run the Installation Verification Procedure (IVP). The IVP for Hanyu FMS software checks to be sure that the installation is successful. It is recommended that you run the IVP.

8. Purge files.

```
* Do you want to purge files replaced by this installation
dir[YES]?
```

   You have the option to purge files from previous versions of Hanyu FMS that this installation supercedes. Purging is recommended; however, to save files from the previous version, enter NO in response to the question.

9. Choose installation options.

```
* Do you wish to install Sample Application Programs and
Modifiable Message File Procedures [YES]?
```

You are now asked to choose your installation options. If you answer YES to the prompt, the Hanyu FMS modifiable message files and sample applications are installed. The files relating to the sample applications are found in the CFMS$EXAMPLES: directory. The Hanyu FMS installation and start-up procedure (SYS$STARTUP:CFMSTARTUP.COM) defines a system logical for the CFMS$EXAMPLES: directory.

The Modifiable Message File Procedures create a subdirectory containing the sources for the CFMS Message Files and instructions on how to modify the text of the messages in the CFMS Form Driver and CFMS Utilities. The message files are found in the subdirectory SYS$SYSROOT:[SYSHLP.EXAMPLES.CFMS.MESSAGE]. The instructions for modifying the message files are in the CFMS_MESSAGE.MEM file in that subdirectory.

### 8.2.3 Informational Messages

The installation procedure displays a number of informational messages that report on the progress of the installation. There are no further questions. If the installation has been successful, VMSINSTAL moves the new or modified files to their target directories, updates help files, and updates DCL tables, if necessary. If you asked for files to be purged, that is done now. The procedure displays the following message:

```
%VMSINSTAL-I-MOVEFILES, files will now be moved to their target
directories...
```

If the installation procedure is successful, the following files are moved to their target directory:

- SYS$SYSTEM:CFMSFAA.EXE
- SYS$SYSTEM:CFMSFED.EXE
- SYS$SYSTEM:CFMSFLG.EXE
- SYS$SYSTEM:CFMSFLI.EXE
- SYS$SYSTEM:CFMSFTE.EXE
- SYS$SYSTEM:CFMSFUU.EXE

In addition, the SYS$HELP:HELPLIB.HLB and SYS$LIBRARY:DCLTABLES.EXE files are updated to include the new version of the Hanyu FMS HELP text and the CFMS command line definition, respectively. The Hanyu FMS release notes are copied to the SYS$HELP:DECFMS024.RELEASE_NOTES file.

For a complete list of files that have been created or modified by the installation procedure, see Appendix Appendix B.

### 8.2.4 Running the Installation Verification Procedure

If you have chosen to run the IVP, VMSINSTAL runs it now. The procedure displays the following message:

```
Beginning CFMS V2.4 Installation Verification Procedure...
```

If Hanyu FMS has been installed, the IVP displays the following message:

```
CFMS V2.4 Installation Verification Procedure was successful
Refer to the Hanyu FMS Installation Guide for further
verification procedures..
```

You can run the IVP separately any time after Hanyu FMS software has been installed. To run the IVP, enter the following command:

```
@SYS$SYSDEVICE:[SYS$TEST.CFMS]CFMS$IVP
```

### 8.2.5 Completing the Installation Procedure

The following messages indicate that the installation is complete:

```
Installation of CFMS V2.4 completed at 11:03

VMSINSTAL procedure done at 11:17
```

You can now log out of the privileged account as follows:

```
$ LOGOUT
```

The following message is displayed:

```
SYSTEM     logged out at 14-NOV-1995 11:24:32.40
```

VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Therefore, to continue using the system manager's account and to restore these symbols, log out and log in again.

## 8.3 Error Recovery

If errors occur during the installation itself or when the IVP is running, VMSINSTAL displays failure messages. If the installation fails, the procedure displays the following message:

```
%VMSINSTAL-E-INSFAIL, The installation of CFMS V2.4 has
failed.
```

If the IVP fails, the procedure displays the following messages:

```
The CFMS V2.4 Installation Verification Procedure failed.

%VMSINSTAL-E-IVPFAIL, The IVP for CFMS V2.4 has failed.
```

Errors can occur during the installation if any of the following conditions exists:

- The version of the operating system is incorrect.
- Quotas are insufficient.
- System parameter values are insufficient.
- The VMS Help library is being used.
- Your disk contains insufficient disk space
- The product license has not been registered and loaded.

For descriptions of the error messages generated by these conditions, see the VMS documentation on system messages, recovery procedures, and software installation. If you are notified that any of these conditions exists, you should take the appropriate action as described in the message. (You might need to change a system parameter or increase an authorized quota value.) For information on installation requirements, see Chapter 7.

# 9

# After Installing Hanyu FMS Software

After installing Hanyu FMS software, you need to perform the following tasks:

- Edit the system startup files.
- Set user account quotas.

## 9.1 Editing the System Files

To provide for automatic startup of Hanyu FMS when your system is restarted, you must edit two system files. To edit these startup files, use the following procedure:

1. Add the command line that starts Hanyu FMS to the system startup file, SYS$MANAGER:SYSTARTUP_VMS.COM. Hanyu FMS software cannot start until the network has started. You must put this new command line after the network startup command line. The following example shows the network startup command line followed by the startup command line for Hanyu FMS:

```
$ @SYS$MANAGER:STARTNET.COM
      .
      .
      .
$ @SYS$STARTUP:CFMSTARTUP.COM
```

2. The CFMS start-up command procedure contains several VMS commands. The first command assigns the logical name CFMS$EXAMPLES to the directory that contains the sample application programs for DEC FMS /Hanyu Version 2.4.

   The last commands in the command procedure install CFDVSHR and CFDVMSG as known shared images. To improve the performance of CFMS application programs, you can remove the following line from CFMSTARTUP.COM:

```
$ EXIT         ! Remove this line to install the images
```

If you have made any changes to the CFMSTARTUP.COM file, use the SHUTDOWN procedure to stop the current system, and restart the system.

## 9.2 User Account Requirements

To work with Hanyu FMS, user accounts on your system must have at least the TMPMBX privilege. The accounts must also have the quotas shown in Table 9–1.

**Table 9–1 User Account Quotas for Using CFMS Software**

| Account Quota | Value |
|---|---|
| ASTLM | 24 |
| BIOLM | 18 |
| DIOLM | 18 |
| ENQLM | 30 |
| FILLM | 20 |

User account privileges and quotas are stored in the file SYSUAF.DAT. To verify and change user account quotas, use the VMS Authorize Utility. For more information on modifying account privileges and quotas, see the description of the Authorize Utility in the *System Management Utilities Reference Manaul*

## 9.3 Running the IVP

When CFMS is installed, the IVP is automatically placed in the following location: SYS$SYSDEVICE:[SYS$TEST.CFMS]CFMS$IVP.COM. The IVP is placed there even if you have chosen not to run it at installation time.

You can run the IVP at any time after CFMS has been installed by entering the following command:

```
@SYS$SYSDEVICE:[SYS$TEST.CFMS]CFMS$IVP
```

## 9.4 Special Requirements

To prevent data loss, users should set their terminals to HOSTSYNC and TYPAHEAD before using Hanyu FMS software. For more information, see the online release notes.

## 9.5 Enhancing Hanyu FMS Performance

This section includes information on system tuning and explains how to install Hanyu FMS as a shared image.

The Form Driver for DEC FMS/Hanyu Version 2.4 is built as a shared image. If several users who run Hanyu FMS applications at the same time are on your system, each user has a copy of the Form Driver in memory. If you install the Form Driver as a known shared image, the users share a single copy of the Form Driver in memory when Hanyu FMS applications are run.

A known shared image reduces memory requirements and can improve system performance.

To install Hanyu FMS as a known shared image on a system that is currently running, use the VMS Install Utility (INSTALL). It is recommended that you perform the install operation on a system that has just been started because the available space in the global page table is less likely to be fragmented.

To install Hanyu FMS as a shared image, use the following procedure:

1. Determine the number of available global pagelets and global sections on your system. Refer to *System Manager's Manual* for information on how to verify and modify the number of global pagelets and global sections. Table 7–3 contains the required values for these parameters.

2. Once you have reset the system parameter values, invoke the VMS Install Utility from a privileged account and install Hanyu FMS as a shared image, as follows:

```
$ INSTALL
INSTALL> ADD SYS$SHARE:CFDVSHR.EXE /OPEN /SHARED
INSTALL> ADD SYS$MESSAGE:CFDVMSG.EXE /OPEN /SHARED
INSTALL> ADD SYS$MESSAGE:CFDVMSGE.EXE /OPEN /SHARED
INSTALL> EXIT
```

3. Add the following lines to the appropriate system startup command file so that each time the system is started, Hanyu FMS software is available as a shared image. (If your site has modularized its startup procedures, be sure you add the lines to the correct file. The default startup command file for VMS Alpha Version 6.1 operating system is SYS$MANAGER:SYSTARTUP_VMS.COM.)

```
$RUN SYS$SYSTEM:INSTALL
SYS$SHARE:CFDVSHR /OPEN /SHARED
SYS$MESSAGE:CFDVMSG /OPEN /SHARED
SYS$MESSAGE:CFDVMSGE /OPEN /SHARED
```

4. When you install Hanyu FMS as a shared image, you need to increase the global pagelets (GBLPAGES) by 250 and global sections (GBLSECTIONS) by 4. Refer to *System Manager's Manual* for information on changing these parameters.

## 9.6 Determining and Reporting Problems

If an error occurs while Hanyu FMS is being used and you believe that the error is caused by a problem with Hanyu FMS, call your Customer Support Center.

# 10

# Verifying the Form Editor and Form Tester

Because of their interactive nature, the Form Editor and the Form Tester must be tested manually on a VT382 Hanyu-compatible terminal. The following procedure verifies the installation of the Form Editor and the Form Tester.

1. Log in using a VT382 Hanyu-compatible terminal.
2. Enter the SET TERMINAL/INQUIRE command to request a response sequence from your terminal, as follows:

   ```
   $  SET TERMINAL/INQUIRE
   ```

3. Create a form to test the Form Editor.

   To create a form, specify the name of a file that does not exist in the current directory. (In this example, the file is called testfile.frm.) The default file type is .FRM. For example:

   ```
   $  CFMS/EDIT testfile.frm
   ```

4. Select a Form Editor Menu option.

   After you have entered the Form Editor, select LAYOUT at the Phase Choice prompt. The screen is cleared and the Layout Phase status line appears at the bottom of your screen.

   ```
   Phase Choice: LAYOUT
   ```

5. Enter text into your form. For example:

   ```
   This is a test of CFMS.
   ```

   To enter field mode, press the PF1 key and then the keypad 8 key. Type the letter x six times to indicate a field. For example:

   ```
   <PF1> <KP8>
   XXXXXX
   ```

## Verifying the Form Editor and Form Tester

6. Exit the Form Editor.

   Press the PF1 key and the keypad 7 key to exit the Layout Phase of the Form Editor. The Form Editor Menu reappears; at the prompt, type EXIT and press RETURN.

   ```
   <PF1> <KP7>
   Phase Choice: EXIT
   ```

7. Save the form.

   After you have exited Layout Phase, the Editor prompts you to save the file. Press RETURN to save the form.

   ```
   $ Do you want to save this form?
    %FMS-I-FORMSAVED, Form testfile.frm saved in testfile.frm
   ```

8. Test the form, as follows:

   ```
   $ CFMS/TEST testfile.frm
   ```

   Hanyu FMS displays your form. Type any 4 Hanyu characters. The fourth character does not echo on the screen. The terminal bell rings and an error message indicating that the field is full is displayed at the bottom of your terminal screen. Press RETURN. The system prompt is displayed.

   ```
   123456
   <RETURN>
   $
   ```

9. Delete the form file, as follows:

   ```
   $ DELETE testfile.frm;*
   ```

   The test is complete. If any errors have occurred during the test, follow the instructions in Section 8.3.

# A

# CFMS Sample Installation

This appendix contains sample installations of Hanyu FMS software. These samples have been run on a system that has no previous version of Hanyu FMS installed.

The sample installation assumes that DECnet has been shut down, that no users are logged in to your system, and that OPTIONS N is specified to print the release notes. The Installation Verification Procedure (IVP) runs at the end of the installation.

```
$ SET DEF SYS$UPDATE
$ @VMSINSTAL

OpenVMS ALPHA Software Product Installation Procedure V6.1-1H1

It is 29-NOV-1995 at 17:35.
Enter a question mark (?) at any time for help.
* Are you satisfied with the backup of your system disk [YES]?
YES
* Where will the distribution volumes be mounted: DKA400:

Enter the products to be processed from the first distribution
volume set.
* Products: CFMS024
* Options: N
Please mount the first volume of the set on  DKA400:.
* Are you ready? YES
%MOUNT-I-MOUNTED, DECCFMS mounted on DKA400:
The following products will be processed:
  CFMS V2.4
 Beginning installation of CFMS V2.4 at 17:37

%VMSINSTAL-I-RESTORE, Restoring product saveset A ...

    Release Notes Options:

1.  Display release notes
2.  Print release notes
3.  Both 1 and 2
4.  Copy release notes to SYS$HELP
5.  Do not display, print or copy release notes
```

## CFMS Sample Installation

```
* Select option [2]: 4
* Do you want to continue the installation? YES
%VMSINSTAL-I-RELMOVED , The product's release notes have been
successfully moved to SYS$HELP.

This is a special FMS/Hanyu kit which comes with ALL-IN-1/Hanyu kit and
requires ALLIN1-UI-HANYU license to operate.

             Product:       ALLIN1-UI-HANYU
             Producer:      DEC
             Version:       3.2
             Release Date:  17-OCT-1995

* Does this product have an authorization key registered and
loaded? YES
* Do you want to run the IVP after the installation [YES]? YES
* Do you want to purge files replaced by this installation
[YES]? YES

If you wish to save space on your system disk you may  choose
not to install the Sample Application Programs and the
Modifiable Message File Procedures.  You may later install them
by installing CFMS V2.4 again.

* Do you wish to install Sample Application Programs and
Modifiable Message File Procedures [YES]?
%VMSINSTAL-I-RESTORE, Restoring product saveset B ...
%VMSINSTAL-I-RESTORE, Restoring product saveset C ...
%VMSINSTAL-I-RESTORE, Restoring product saveset D ...
%CFMS-I-CONTINUE, All inquiries have been requested. If no
errors occur,
-CFMS-I-CONTINUE, the installation will be completed in about
20 minutes.
%VMSINSTAL-I-SYSDIR, This product creates system directory
                                        [SYSHLP.EXAMPLES.CFMS].

If you intend to execute this layered product on other nodes
in your VAXcluster, and you have the appropriate software license,
you must prepare the system-specific roots on the other nodes by
issuing the following command on each node (using a suitably
privileged account):

 $ CREATE /DIRECTORY SYS$SPECIFIC:[SYSHLP.EXAMPLES.CFMS]

System Manager:

     Upon completion of this installation, please be
     sure  to  edit  the  system  startup  files  as
     described in the Hanyu FMS Installation Guide.
```

## CFMS Sample Installation

```
%CFMS-S-FMSBUILT, CFMS V2.4 has built successfully,
                                                  continuing...
%CFMS-I-STARTSAMP, Starting the Sample Application Programs
                                                  installation...
%CFMS-S-SAMPBUILT, Sample Application Programs have built
                                        successfully, continuing...
%CFMS-I-CONTINUE, Starting Modifiable Message File Procedures
                                                 installation ...
%VMSINSTAL-I-SYSDIR, This product creates system directory
                                     [SYSHLP.EXAMPLES.CFMS.MESSAGE].

If you intend to execute this layered product on other nodes
in your VAXcluster, and you have the appropriate software license,
you must prepare the system-specific roots on the other nodes by
issuing the following command on each node (using a suitably
privileged account):

$ CREATE
  /DIRECTORY SYS$SPECIFIC:[SYSHLP.EXAMPLES.CFMS.MESSAGE]
  /PROT=(S:RWED,O,G,W)
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target
                                                   directories...

Beginning the CFMS V2.4 Installation Verification Procedure...

CFMS V2.4 Installation Verification Procedure was successful
Refer to the Hanyu FMS Installation Guide for further verification
                                                    procedures...

 Installation of CFMS V2.4 completed at 17:54

Enter the products to be processed from the next distribution
volume set.
* Products: EXIT
 VMSINSTAL procedure done at 17:55
$
```

# B

# CFMS Related Files Installed on Your System

The following is a list of files added, replaced, or modified on your system by the installation of DEC FMS/Hanyu Version 2.4 software.

| File Name | Function |
|---|---|
| | **[SYSHLP] (SYS$HELP)** |
| HELPLIB.HLB | Module CFMS (English version) added or replaced in help library |
| DECFMS024.RELEASE_NOTES | Online release notes for DEC FMS Version 2.4 |
| | **[SYSHLP.HANYU]** |
| HELPLIB.HLB | Module CFMS (Hanyu version) added or replaced in help library |
| | **[SYSEXE] (SYS$SYSTEM)** |
| CFMSFAA.EXE | CFMS Form Application Aids Utility |
| CFMSFED.EXE | CFMS Form Editor Utility |
| CFMSFLG.EXE | CFMS Form Language Translator Utility |
| CFMSFLI.EXE | CFMS Form Librarian Utility |
| CFMSFTE.EXE | CFMS Form Tester Utility |
| CFMSFUU.EXE | CFMS Form Upgrade Utility |
| | **[SYSLIB] (SYS$SHARE)** |
| CFDVSHR.EXE | Form Driver shareable image |

## CFMS Related Files Installed on Your System

| File Name | Function |
|---|---|
| | **[SYSLIB] (SYS$LIBRARY)** |
| DCLTABLES.EXE | DCL command CFMS added or replaced in DCL tables |
| HLL11.OBJ | PDP–11 compatibility high level language interface |
| HSYIMGLIB.OLB | Module HFDVSHR added or replaced in library |
| HSYOBJLIB.OLB | Module FDV$PLITRM added or replaced in library |
| | **[SYSMGR] (SYS$MANAGER)** |
| CFMSTARTUP.COM | CFMS startup procedure for full development kit |
| CFDVSTRTUP.COM | CFMS startup procedure for run-time kit |
| | **[SYSMGR] (SYS$MESSAGE)** |
| CFDVMSG.EXE | Form Driver message file (Hanyu) |
| CFDVMSGE.EXE | Form Driver message file (English) |
| CFMSMSG.EXE | CFMS utilities message file (Hanyu) |
| CFDVMSGE.EXE | CFMS utilities message file (English) |
| | **[SYSHLP.EXAMPLES.CFMS] (CFMS$EXAMPLES)** |
| FDVDEF.BAS | Form Driver symbol definition file for BASIC |
| FDVDEF.FOR | Form Driver symbol definition file for FORTRAN |
| FDVDEF.H | Form Driver symbol definition file for C |
| FDVDEF.LIB | Form Driver symbol definition file for COBOL |
| FDVDEF.PAS | Form Driver symbol definition file for PASCAL |
| FDVDEF.REQ | Form Driver symbol definition file for BLISS |
| FDVDEFCAL.PLI | Form Driver symbol definition file for PL/I |
| FDVDEFFNC.PLI | Form Driver symbol definition file for PL/I |
| MESSAGE.DIR | Directory for modifiable message procedures |

In addition, if the system manager has requested the sample application programs to be installed, the following files also exist.

## CFMS Related Files Installed on Your System

| File Name | Function |
|---|---|
| **[SYSHLP.EXAMPLES.CFMS] (CFMS$EXAMPLES)** | |
| BISYNC_REGIST.FRM | Sample application REGISTER form to be used with bisync terminals |
| LONG_REGIST.FRM | Sample application REGISTER form to be used with MicroVAX workstations |
| SAMP.BAS | BASIC sample application source |
| SAMP.DAT | Sample application data file |
| SAMP.EXE | BASIC sample application executable image |
| SAMP.FLB | Sample application form library |
| **[SYSHLP.EXAMPLES.CFMS] (CFMS$EXAMPLES)** | |
| SAMPBAS.COM | BASIC sample application build procedure |
| SAMPBLI.BLI | BLISS sample application source |
| SAMPBLI.COM | BLISS sample application build procedure |
| SAMPBLI.EXE | BLISS sample application executable image[1] |
| SAMPCC.C | C sample application source |
| SAMPCC.COM | C sample application build procedure |
| SAMPCC.EXE | C sample application executable image[1] |
| SAMPCOB.COB | COBOL sample application source |
| SAMPCOB.COM | COBOL sample application build procedure |
| SAMPCOB.EXE | COBOL sample application executable image[1] |
| SAMPCOB.LIB | COBOL sample application library |
| SAMPFOR.COM | FORTRAN sample application build procedure |
| SAMPFOR.FOR | FORTRAN sample application source |
| SAMPFOR.EXE | FORTRAN sample application executable image[1] |
| SAMPPAS.COM | PASCAL sample application build procedure |
| SAMPPAS.EXE | PASCAL sample application executable image[1] |
| SAMPPAS.PAS | PASCAL sample application source |
| SAMPPLI.COM | PL/I sample application build procedure |
| SAMPPLI.EXE | PL/I sample application executable image[1] |
| SAMPPLI.PLI | PL/I sample application source |

[1]Present only if the language is available on the system.

## CFMS Related Files Installed on Your System

| File Name | Function |
|---|---|
| **[SYSHLP.EXAMPLES.CFMS] (CFMS$EXAMPLES)** | |
| SMPACCOM.FOR | FORTRAN sample application include file |
| SMPCOBUAR.LIB | COBOL sample application library |
| SMPMEMRES.OBJ | Memory resident form module for the sample applications |
| SMPREGCOM.FOR | FORTRAN sample application include file |
| SMPSTATUS.FOR | FORTRAN sample application include file |
| SMPVECTOR.OBJ | UAR vector module for the sample applications |
| SMPWORK.FOR | FORTRAN sample application include file |
| **[SYSHLP.EXAMPLES.CFMS.MESSAGE]** | |
| CCOMMSG.MSG | Hanyu message file common to all CFMS utilities |
| FAAMSG.MSG | Form application aids message file |
| FCVMSG.MSG | Form converter message file |
| CFDVMSG.MSG | Hanyu Form driver message file |
| CFEDMSG.MSG | Hanyu Form editor message file |
| FIOMSG.MSG | File I/O message file |
| FLGMSG.MSG | Form language translator message file |
| FLIMSG.MSG | Form librarian message file |
| FMSLIT.MSG | Hanyu FMS message file literals |
| CFMS_MESSAGE.MEM | Guide to modifying Hanyu FMS message files |
| FTEMSG.MSG | Form Tester message file |
| FUUMSG.MSG | Form Upgrade Utility message file |
| HMSGBLD.COM | Hanyu Message file build procedure |