

IBM System/36 PC

Updating to a New Release – 5364

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| This major revision makes obsolete SC21-9242-1. Changes or additions to the text and illustrations are indicated by a vertical line to the left of the change or addition. See "About This Manual" for a summary of major changes to this edition.

| Changes are periodically made to the information herein; any such changes will be reported in subsequent revisions or Technical Newsletters.

| This edition applies to Release 5, Modification Level 1, of IBM System/36 System Support Program Product (Program 5727-SS6), and to all subsequent releases and modifications until otherwise indicated in new editions or Technical Newsletters.

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Contents

About This Manual	v
What you should know . . .	vi
What you should have . . .	vii
A note about the enter keys . . .	viii
A note about diskettes . . .	viii
How this manual is arranged . . .	ix
If you want more information . . .	x
How this manual has changed . . .	xi
Chapter 1. Getting Ready to Install the Release Update	1-1
Chapter 2. Installing the Release Update	2-1
Chapter 3. If You Are Adding New System Support	3-1
Adding New Programming Support	3-1
Adding New Display Stations or Printers	3-3
Backing Up Your System after Adding New Support	3-3
Appendix A. Backing Up System/36 Libraries and Diskettes	A-1
Backing Up Libraries	A-2
Backing Up System/36 SSP and Program Product Diskettes	A-7
Backing Up System/36 Microcode Diskettes	A-8
Appendix B. Source Entry Utility (SEU) Source Format Member	B-1
Appendix C. How to Change Enhanced 5250 Emulation Program Options	C-1
Changing the Defaults for 5250 Emulation	C-2
Changing the Defaults for Host Graphics Support	C-4
Responding to the CONFIG Procedure Displays	C-8
Using the GCONFIG Procedure	C-10
Converting the Keyboard Profile You Used in Release 3	C-12
Converting a Keyboard Profile on Diskette	C-12
Converting a Keyboard Profile on Disk	C-14
Appendix D. Preparing Attachment Programs for a Non-U.S. English Keyboard	D-1
For a Diskette-Based System	D-2
For a Disk-Based System	D-4
A Disk-Based System without AUTOEXEC	D-4
A Disk-Based System with AUTOEXEC	D-5

About This Manual

This manual provides information about preparing for and installing Release 5, Modification Level 1 on a System/36 that has a 5364 System Unit. You can install this release on a system that has any previous release installed.

This manual describes how to update your **current** IBM programs only. It does not describe how to install new programming support, such as a programming language, or configure a new device, such as a printer. You should first use this manual to update the IBM programs currently on your system, and then use the *Changing Your System Configuration* manual to install any new program product or configure a new device.

If you plan to add hardware features to your system, first complete the release update. Then install the new features, using the documentation that you received with the features.

If you plan to use the Software Distribution Support feature to update your remote systems, first use this manual to update your central site system, then use the manual *Guide to Installing Multiple Systems*, SC21-9867, to update your remote systems.

Use the PC diskettes, SSP diskettes, microcode diskettes, program temporary fix (PTF) diskettes, and documentation that are specified for the release you want to load. **All your diskettes and documentation must be at the same release level.**

When you begin your release update, carefully read each step, and do each in the proper sequence. Do *not* try to begin your release update in the middle of these steps.

What you should know . . .

This manual is intended to be used by the system operator or the system manager. If you have password security on your system, you must have service aid authority. If you want more information about system security procedures, refer to the *System Security Guide*.

To install a new release on your system, you should know how to perform the following tasks:

- Perform initial program load (IPL)
- Operate display stations and printers
- Initialize and use both personal computer diskettes and System/36 diskettes
- Run the System/36 CNFIGSSP procedure

If you are not familiar with one or more of these tasks, you can find the necessary information in the manuals listed in “If you want more information . . .” on page x.

The personal computer you use as a system console can be one of the following:

- IBM 5150 Personal Computer
- IBM 5160 Personal Computer XT¹
- IBM 5162 Personal Computer XT 286
- IBM 5170 Personal Computer AT[®]
- IBM Personal System/2 Model 30

Throughout this manual, personal computer or PC applies to all of these products.

¹ Trademark of IBM.

What you should have . . .

- You should have backup copies of your current System/36 libraries, files, and folders, including your system library, program product libraries, and configuration library. Brief instructions for saving the system library, program product libraries, and configuration library are in Appendix A, “Backing Up System/36 Libraries and Diskettes” on page A-1 in this manual.
- You will need DOS 3.1 or higher. Certain features or devices require later versions of DOS.
- You will need the PC CODE diskettes that contain the System/36 attachment programs for this release. The attachment programs run the personal computer and exchange information between the personal computer and the 5364 System Unit. The attachment programs contain a version of the Enhanced 5250 Emulation Program.
- You will need the new release System/36 diskettes that contain the microcode, the System Support Program (SSP), and other programming support *currently* installed on your system.
- If you have placed your own user members in your system library (#LIBRARY) or in program product libraries, you will need initialized 2HD (double-sided, high-density) diskettes on which to save these user members.
- You will need four blank 2D (double-sided, double-density) diskettes to make working copies of the PC CODE diskettes.
- You should have a printed copy of your current master configuration record. Use the CNFIGSSP procedure to print your master configuration record *before* you begin the update. The manual *Changing Your System Configuration* has information about printing the master configuration record.

A note about the enter keys . . .

In this manual, some instructions direct you to press the **assigned enter key**, while other instructions direct you to press the **PC enter key**. When you are instructed to press the **assigned enter key**, press the enter key for the style of System/36 keyboard you selected (assigned) for the Enhanced 5250 Emulation Program. When you are instructed to press the **PC enter key**, press the enter key of the personal computer keyboard that you are using.

A note about diskettes . . .

You will use both PC diskettes and System/36 diskettes for the release update.

PC diskettes (described later in this manual) are to be inserted *only* into the diskette drive of the personal computer. The PC diskettes you use for the release update have *gray* labels, and are 2D (double-sided, double-density) diskettes. When you make backup copies of PC diskettes, use only 2D diskettes for the backup copies.

The System/36 diskettes (described later in this manual) are to be inserted *only* into the diskette drive of the 5364 System Unit. The System/36 diskettes you use for the release update have *white* labels, and are 2HD (double-sided, high-density) diskettes. When you make backup copies of System/36 diskettes, use only 2HD diskettes for the backup copies.

Before you begin using the diskettes, here are just a few reminders about proper diskette handling:

- Do not use a System/36 diskette (2HD diskette) in the diskette drive of a personal computer, and do not use a PC diskette (2D diskette) in the diskette drive of the 5364 System Unit.
- Do not place diskettes near magnetic materials, smoke, or any substances that can contaminate the diskettes.
- Do not touch or try to clean diskette surfaces.
- Do not use clips or rubber bands on a diskette.
- Do not place heavy books on a diskette.
- Do not expose diskettes to heat greater than 51.5° C (125° F) or to direct sunlight.
- Do not write outside the label area on diskettes. If you write on the label, use a soft fibertip pen.

How this manual is arranged . . .

- Chapter 1, “Getting Ready to Install the Release Update”** shows you how to identify the diskettes that you need for the release update. Also included are instructions to check your master configuration record to make sure you have all the diskettes you need for the release update.
- Chapter 2, “Installing the Release Update”** describes how to install and load the System/36 attachment programs from the PC CODE diskettes, and apply the PC PTF diskettes (if you have any). Also included are instructions to update the microcode, the SSP, and other programming support currently on your system, and apply the System/36 PTF diskettes (if you have any).
- Chapter 3, “If You Are Adding New System Support”** describes what you should do after you have updated your current programming support. It includes a list of tasks necessary for adding new programming support or new devices.
- Appendix A, “Backing Up System/36 Libraries and Diskettes”** has brief instructions on saving certain System/36 libraries and folders, and backing up diskettes.
- Appendix B, “Source Entry Utility (SEU) Source Format Member”** has information about renaming or removing the SEU source format member.
- Appendix C, “How to Change Enhanced 5250 Emulation Program Options”** has information about changing the defaults for the emulation programs and using host graphics support. It also has information about converting a keyboard profile.
- Appendix D, “Preparing Attachment Programs for a Non-U.S. English Keyboard”** has information about using a non-U.S. English keyboard.

If you want more information . . .

Use the following manuals if you want more information:

- *Guide to Publications*, GC21-9015, which describes the System/36 publications. It also contains a task index that shows which manuals are required for a task, and a master glossary that defines the system's technical terms.
- *Changing Your System Configuration*, SC21-9052, which describes how to change your system configuration. Configuration changes might include installing a new program product or device, changing the characteristics of a display station or printer, or changing the base SSP values.
- *IBM Personal Computer Disk Operating System*, which describes how to use the IBM Personal Computer Disk Operating System.
- *IBM Personal Computer Guide to Operations*, which describes how to use the IBM Personal Computer.
- *Operating Your System – 5364*, SC21-9453, which describes how to operate the system.
- *System Security Guide*, SC21-9042, which describes how to use system security procedures.

How this manual has changed . . .

The following programming support was added for Release 5, Modification Level 0:

- Swedish DisplayWrite/36 Language Dictionary
- Norwegian DisplayWrite/36 Language Dictionary
- Dutch DisplayWrite/36 Language Dictionary
- Icelandic DisplayWrite/36 Language Dictionary
- Advanced Peer-to-Peer Networking (APPN)
- To Personal Services/36:
 - Document Library Services (DLS)
 - Online information for DLS
- To PC Support/36:
 - Shared folders
 - Online information for shared folders
 - PC Support/36 Organizer
- PC Support/36 Expansion feature

The following programming support was added for Release 5, Modification Level 1:

- Portuguese DisplayWrite/36 Language Dictionary
- Software Distribution Support
- Local Area Network (LAN) Communications
- To Personal Services/36:
 - Professional Office System (PROFS) bridge
- To PC Support/36:
 - PC Support IBM Token-Ring Network Support
 - PC Support/36 Work Station feature
 - PC Support/36 pass-through

Note: The personal computer storage requirements increased for PC Support/36. Refer to the personal computer storage requirements tables in the PC Support/36 User's Guide, SC21-9088.

Chapter 1. Getting Ready to Install the Release Update

Before you begin the release update:

- Make sure your security profile will allow you to do the release update. If password security is active on your system, you must have service aid authority. If you have secured any program product libraries, you must have owner access for that library. Check with your master security officer to ensure that you have the required authorization in your profile before you begin the release update. If you want information about system security procedures, refer to the manual *System Security Guide*.
- Make sure you have a printed copy of your current master configuration record. The manual *Changing Your System Configuration* has instructions to print your master configuration record.
- Make sure you have backup copies of your current System/36 libraries, files, and folders, including your system library (#LIBRARY) and program product libraries. If you keep your configuration members in #CNFGLIB, you should also have a backup of that library.

Note: When you update to Release 5, Modification Level 1 from Release 4 or a previous release, you must convert all DisplayWrite/36 folders to the Release 5 format after the release update. The converted folders cannot be used with your previous release level; therefore, be sure to make a backup copy of each of your folders before you convert the folders. There is more information about converting folders later in this manual.

If you are updating from Release 5, Modification Level 0 to Modification Level 1, your folders are already converted.

- Schedule at least 4 hours of dedicated system time to do the release update. Additional time is required, depending on how much programming support is to be loaded on your system. **Dedicated** system time means that no other jobs or operators can use the system. The best time to do the release update is immediately after you have completed normal backup of your libraries, files, and folders.
- If you currently have programming support on your system that you do not plan to update to the new release, delete that support before you begin the release update. The manual *Changing Your System Configuration* has instructions to delete programming support. In addition, an overview of the steps you must perform to delete support is included at the end of this chapter.

Note: The diskette labels shown in this manual are examples and might not look exactly like the labels on your diskettes.

Step 1: Identify the PC diskettes you will need for the release update.

The PC diskettes have gray labels, and will be inserted into the PC diskette drive. You should have four PC CODE diskettes. You might also have one or more PC program temporary fix (PTF) diskettes.

1a. Identify the new PC CODE diskettes.

The PC CODE diskettes contain the System/36 attachment programs. There are four new PC CODE diskettes, identified as:

```
PC CODE DSKT01
PC CODE DSKT02
PC CODE DSKT03
PC CODE DSKT04
```

The following is an example of the information on a PC CODE diskette label:

```
5727-SS6      R05 M01      FEAT 9074
S/36 SYSTEM SUPPORT PROGRAM
PC CODE DSKT01      VOL01 OF 04
```

1b. Identify the PC PTF diskettes.

There might be one or more PC PTF diskettes. **The label on a PC PTF diskette is also gray.** The following is an example of the information on a PC PTF diskette label:

```
5727-SS6      R05 M01      FEAT 9074
              SYSTEM SUPPORT PROGRAM/MCODE
IDENT. S/36 PCPTFnxxx  VOL01 OF nn
```

where:

nnnn Is the number of the PTF level.

nn Is the number of PTF diskette volumes.

Step 2: Identify the new System/36 diskettes.

The System/36 diskettes have white labels, and will be inserted into the diskette drive on the 5364 System Unit.

Identify each System/36 diskette by its label. These diskettes contain the SSP, microcode, program products, and SSP features. You might also have one or more System/36 PTF diskettes.

2a. Identify the microcode diskette.

There are two microcode diskettes for the 5364 System Unit labeled DSKT11 and DSKT12. The following is an example of the information on a microcode diskette label:

```
5727-SS6      R05 M01      FEAT 9074
S/36 SYSTEM SUPPORT PROGRAM
MCODE DSKT11  VOL01 OF 02
```

2b. Identify the diskettes containing the System Support Program Product (SSP). The following is an example of the information on an SSP diskette label:

```
5727-SS6      R05 M01      FEAT 9074
S/36 SYSTEM SUPPORT PROGRAM
                                  VOL01 OF 11
```

2c. Identify the System/36 PTF diskettes.

There might be one or more System/36 PTF diskettes. **The label on a System/36 PTF diskette is also white.** The following is an example of the information on a System/36 PTF diskette label:

```
5727-SS6      R05 M01      FEAT 9074
      SYSTEM SUPPORT PROGRAM/MCODE
IDENT. S/36 PTFDKnnnn      VOL01 OF nn
```

where:

nnnn Is the number of the PTF level.

nn Is the number of PTF diskette volumes.

2d. Identify the diskettes containing the program products.

There is at least one diskette for each program product. During the release update, the system uses only those diskettes containing the program products currently on your system. If you have any newly ordered program products, you will install them *after* you have completed the release update. However, you can identify these diskettes now.

The following table shows the diskette label name and the name of the support for each program product. When you are prompted for these diskettes during the release update, the prompt will identify the diskettes by these diskette label names. Some prompts also specify volume number, while other prompts specify feature number. The volume numbers and feature numbers are on the diskette labels.

Diskette Label Name	Name of Support
5727-UT6	Utilities (DFU, WSU, SEU, SDA)
5727-RG6	RPG II
5727-CB6	COBOL
5727-BA6	BASIC
5727-FO6	FORTRAN
5727-AS6	Assembler
5727-WP6	DisplayWrite/36 (DW/36)
5727-WP7	DW/36 Language Dictionaries
5727-WP7	English
5727-WP7	French I
5727-WP7	French II (Canada)
5727-WP7	Spanish
5727-WP7	Italian
5727-WP7	Danish
5727-WP7	German
5727-WP7	Dutch
5727-WP7	Icelandic
5727-WP7	Norwegian
5727-WP7	Swedish
5727-WP7	Portuguese
5727-WP8	Personal Services/36
5727-QU6	Query/36
5727-WS6	PC Support/36
5727-WS6	PC Support/36 Expansion Feature
5727-WS6	PC Support/36 Work Station Feature
5727-LC6	LAN Communications
5727-BG6	Business Graphics Utilities/36 (BGU/36)
5727-DS6	Development Support Utility (DSU)
5727-EP6	3278 Emulation via IBM PC

Make a check mark beside the diskette label name of each diskette you have. You can use these check marks in **step 3** when you determine if you have all the diskettes you need for the update.

2e. Identify the diskettes containing the SSP programming features.

There is at least one diskette for each programming feature. During the release update, the system uses only those diskettes containing the SSP programming features that are currently on your system. If you have any newly ordered SSP programming features, you will install them *after* you have completed the release update. However, you can identify these diskettes now.

The following table shows the diskette label names and name of the support for the SSP programming features. When you are prompted for these diskettes during the release update, the prompt will identify the diskettes by these diskette label names. Some prompts also specify volume number, while other prompts specify feature number. The volume numbers and feature numbers are on the diskette labels.

Diskette Label Name	Name of Support
5727-SS6	Base Communications
5727-SS6	3270 Device Emulation
5727-SS6	MSRJE
5727-SS6	C & SM
5727-SS6	Distributed Data Management (DDM)
5727-SS6	Display Station Pass-Through (DSPT)
5727-SS6	Tape Support
5727-SS6	Advanced Peer-to-Peer Networking (APPN)
5727-SS6	SSP-ICF Base Support
5727-SS6	SSP-ICF Upline Support
5727-SS6	SSP-ICF Finance Support
5727-SS6	Software Distribution Support

Make a check mark beside the diskette label name of each diskette you have. You can use these check marks in **step 3** when you determine if you have all the diskettes you need for the update.

Notes:

- 1. The Intra subsystem is now a part of the communications feature.*
- 2. The SSP-ICF feature is replaced by three separate features. If you currently have SSP-ICF Base support on your system, SSP-ICF Base Support feature is loaded during the release update. If you currently have SSP-ICF Finance support on your system, the SSP-ICF Finance Support feature is loaded. If you currently have SSP-ICF Upline support on your system, the SSP-ICF Upline Support feature is loaded during the release update.*

Step 3: Make sure you have all the diskettes you need to reinstall the programming support currently on your system.

Use the printout of your master configuration record to see what support is currently installed. (You will use the master configuration record as the basis for the update.) Any programming support that has an asterisk (*) on the printout will be reinstalled during the release update. (Compare the asterisks to the check marks you made in **step 2**.) **Do not begin the release update unless you have all the diskettes for the support marked with an asterisk.**

Notes:

1. *If you installed tape support before you loaded Release 5, your master configuration record will **not** show an asterisk for tape support. To reload your tape support, first complete the release update, then **add** tape support to your configuration.*
2. *If you do not want to reinstall support that has an asterisk, delete the support from your master configuration record **before** you begin the release update. To delete the support, you must run the CNFIGSSP procedure:*
 - a. *To change your configuration member, type a minus (-) beside the prompt for the support you want to delete.*
 - b. *Select option 12 (**Apply change to the master configuration record**) on the CNFIGSSP Main menu to delete the support from the master configuration record.*
 - c. *During the IPL that follows the CNFIGSSP procedure, respond with Y (Yes) when you are prompted to drop the support.*

*The manual **Changing Your System Configuration** has more information about deleting programming support.*

Stop here for a moment.

Review what you have done. Have you:

- Made backup copies of your current System/36 libraries, files, and folders?
- Printed the current master configuration record?
- Identified the new release diskettes?
- Made sure you have all the diskettes for the support currently on your system? This support is marked with an asterisk (*) on the printout of your master configuration record.
- Scheduled at least 4 hours of dedicated system time to do the release update?

Continue with **step 4**.

Chapter 2. Installing the Release Update

Step 4: Sign on at the system console. The release update must be done at the system console.

Display the Main System/36 Help menu. Instructions on how to sign on the system and how to display the Main System/36 Help menu are included in the manual *Operating Your System*.

If password security is active on your system, you must have service aid authority.

If you have secured any program product libraries, you must have owner access for that library.

If you have created your own default menu, that menu must not be stored in the system library (#LIBRARY).

Note: Do not use any Release 5, Modification Level 1 diskettes until you are directed to in the steps on the following pages.

Step 5: To make sure your system is dedicated for your use only:

5a. On the command line of the Main System/36 Help menu, type the following command:

```
MSG ALL,STARTING RELEASE UPDATE: PLEASE SIGN OFF
```

Press the assigned enter key. This sends a message to all display stations on the system.

5b. On the command line, type the following command:

```
STOP WORKSTN,ALL
```

Press the assigned enter key. This ensures that any users signed on the system cannot start jobs or put jobs on the job queue. It allows:

- Jobs currently running to complete
- Jobs on the job queue to run
- Entries in the spool file to print
- SSP-ICF sessions to continue

5c. Make sure the job queue is empty. Use the STATUS JOBQ (or D J) command to see whether any jobs are waiting on the job queue.

5d. Make sure the spool file is empty. Use the STATUS PRT (or D P) command to see whether any output is printing or waiting to be printed.

5e. Make sure all remote work stations are offline. Use the STATUS WORKSTN (or D W) command to see whether the remote display stations and printers are offline.

5f. Make sure there are no user jobs active. Use the STATUS USERS (or D U) command to see whether any user jobs are active.

5g. If you have SSP-ICF support, make sure any SSP-ICF subsystems are disabled, and that there are no active SSP-ICF sessions. Use the STATUS SUBSYS (or D I) command to see whether any subsystems are enabled; use the STATUS SUBSESS (or D N) command to see whether any sessions are active.

The manual *Operating Your System* has information on controlling the job queue and spool file entries. It also has information on using the VARY OFF command to place remote work stations offline, and information on disabling SSP-ICF subsystems and sessions.

Step 6: If you have DisplayWrite/36 (DW/36) or Source Entry Utility (SEU) currently installed on your system, follow these directions:

Note: After the release update, you must convert all DisplayWrite/36 folders to the Release 5 format. The converted folders cannot be used with your previous release level. Make sure you have a backup copy of each of your folders.

- 6a.** If you currently have DisplayWrite/36 online information installed on your system, delete the library #TULIB. (A new #TULIB is created during the update.) You can delete the library by typing the following on the System/36 command line:

```
DELETE #TULIB,F1,,LIBR
```

Press the assigned enter key. For information about the DELETE procedure, type DELETE on the command line of a System/36 command display, then press the Help key. More information about this procedure is included in the *Procedures and Commands Summary*.

- 6b.** If you have SEU format source members on your system, a source member named #SE@XTRA might be in your system library. You can check to see if this member is in your system library by typing the following on the command line:

```
SYSLIST CRT
```

Press the assigned enter key. Type the following on the command line:

```
LISTLIBR #SE@XTRA,LIBRARY,#LIBRARY,, ,DIRINFO
```

Press the assigned enter key. If the member #SE@XTRA is in your system library, go to Appendix B, “Source Entry Utility (SEU) Source Format Member” to determine if you should remove or rename this member.

If the member is not in your system library, continue with the next step.

Step 7: If you have placed any of your own library members in #LIBRARY or program product libraries, copy these user members to diskette. If you do not copy the members to diskette, they will be destroyed when you load the new SSP.

7a. To copy to diskette all user members you have placed in #LIBRARY, use the FROMLIBR procedure.

Notes:

- 1. The system library, #LIBRARY, must be the current session library when you use the FROMLIBR procedure in this step.*
- 2. Do not use any procedure other than the FROMLIBR procedure to copy your user members to diskette.*
- 3. If you have changed any IBM-supplied members, these members will be copied as user members.*

If you are unsure whether user members are contained in #LIBRARY, you should run the FROMLIBR procedure anyway. If no user members are in the library, the FROMLIBR procedure will issue the system message:

```
SYS-2522 Given members in this library are IBM
```

(To respond to this message, type 0 [zero] and press the assigned enter key.)

The following example shows how the FROMLIBR procedure can be entered to copy all user members in #LIBRARY to diskette.

```
FROMLIBR ALL,LIBRARY,USERMEM,, ,IBMIRD,#LIBRARY
```

ALL In the first parameter and **LIBRARY** in the second parameter indicate that all user members are to be copied.

USERMEM Is the diskette file to be created for this example. You may use a different name.

IBMIRD Is the diskette volume ID used in this example. *Your diskette volume ID may be different.* You can use the CATALOG procedure to determine the volume ID of your diskette.

#LIBRARY Indicates that the user members are to be copied from the system library.

- 7b.** If you have placed user members in any of your program product libraries, you should also copy these members to diskette. For example, you might have assembler subroutines in your RPG II library. The following example shows how the FROMLIBR procedure can be entered to copy all user members in a program product library to diskette.

```
FROMLIBR ALL,LIBRARY,RPGMEM, , ,IBMIRD,#RPGLIB
```

RPGMEM Is the name of the diskette file to be created for this example. You may use a different name.

#RPGLIB Is the name of the RPG II program product library.

For a list of program product library names, see Appendix A, "Backing Up System/36 Libraries and Diskettes" on page A-1.

For information about the CATALOG and FROMLIBR procedures, type the name of the procedure on the command line of a System/36 command display, then press the Help key. More information about these procedures is included in the *Procedures and Commands Summary*.

Step 8: Get the system ready to install the new release code.

Increase the size of #LIBRARY. Type the following on a System/36 command line:

```
COMPRESS A1,FREEL0W
```

Press the assigned enter key. Type the following:

```
ALOCLIBR #LIBRARY,500,,,INCR
```

Press the assigned enter key. Type the following:

```
COMPRESS A1,FREEHIGH
```

Press the assigned enter key.

8a. Sign off the System/36 session.

8b. Display the Session Selection menu by pressing both the Alt and Esc keys at the same time. Continue pressing the Alt and Esc keys until the Session Selection menu is displayed.

8c. On the Session Selection menu, select option 3 (*Service*). Press the PC enter key.

8d. On the Service Control menu, if the service level is *Service*, go to **step 8e**; if the service level is *Normal* or *Locked*, change the service level to *Service*:

1. On the Service Control menu, select option 1 (*Change service level*). Press the PC enter key.
2. On the Service Level menu, select option 1 (*Change service level*). Press the PC enter key.
3. On the Change Service Level display, type the service or master password for the first prompt. (The default service password is PASSWORD and the default master password is MASTER. If your passwords have been changed, use the current password.) If your password has less than 8 characters, press the PC tab key to move the cursor to the second prompt.

Select option 2 (*Service*) for the second prompt. Press the PC enter key.

- 8e.** Insert the DOS diskette into PC diskette drive A. Use the original DOS diskette or an exact copy. (Insert the DOS diskette whether or not you have DOS loaded on a disk.)
- 8f.** To reload DOS, press and hold the Alt and Ctrl keys, then press the Del key. A warning message is displayed. Again, press and hold the Alt and Ctrl keys, then press the Del key. DOS is reloaded, then the DOS prompt is displayed.
- 8g.** On the DOS prompt, enter the time and date.

Step 9: Prepare the System/36 attachment programs. The attachment programs run the personal computer and exchange information between the personal computer and the 5364 System Unit. The attachment programs contain a version of the Enhanced 5250 Emulation Program.

You must make working copies of your new release PC CODE diskettes. Working copies are copies of the original PC CODE diskettes with the DOS files added. You will use the working diskettes for the release update and keep the original diskettes for backup.

The PC CODE diskettes have gray labels. To make the working copies, you will need four blank 2D diskettes.

9a. Make sure the DOS diskette is in PC diskette drive A. (If you are using DOS 3.3, use the DOS Operating Diskette.) To copy the new PC CODE DSKT01 to a blank 2D diskette, type the following:

```
DISKCOPY A: B:
```

and press the PC enter key.

9b. Insert PC CODE DSKT01 (the source diskette) and a blank 2D diskette (the target diskette) as prompted by the system. The blank diskette will be formatted during the copy procedure.

When the copy is complete, remove the diskette from the diskette drive and label the target diskette (the diskette you copied the programs to) WORKING PC CODE DSKT01.

9c. The system asks you if you want to copy another diskette. Select the Y (Yes) option. Repeat **step 9b** to copy the remaining diskettes, replacing DSKT01 with PC CODE DSKT02, PC CODE DSKT03, and PC CODE DSKT04. Be sure to properly label each working diskette.

After the four PC CODE diskettes are copied, the system asks you if you want to copy another diskette. Insert the DOS diskette into PC diskette drive A, then select the N (No) option.

9d. Store the original PC CODE diskettes in a safe place. Use the working copies for the release update.

- 9e.** Make sure the DOS diskette is in PC diskette drive A. (If you are using DOS 3.3, use the DOS Start-Up Diskette.)

If you have two diskette drives, insert WORKING PC CODE DSKT03 into drive B.

At the DOS prompt, type the following:

```
SYS B:
```

and press the PC enter key.

If you have one diskette drive on your personal computer, the system prompts you for the diskettes. Use WORKING PC CODE DSKT03 when prompted to insert the diskette for drive B. Use the DOS diskette when prompted to insert the diskette for drive A.

- 9f.** Make sure the DOS diskette is in diskette drive A. **If you have two diskette drives,** insert WORKING PC CODE DSKT03 into drive B. At the DOS prompt, type the following:

```
COPY A:COMMAND.COM B:
```

and press the PC enter key.

If you have one diskette drive, the system prompts you for the diskettes. Use WORKING PC CODE DSKT03 when prompted to insert the diskette for drive B. Use the DOS diskette when prompted to insert the diskette for drive A.

- 9g.** Repeat **step 9e** and **step 9f**, using WORKING PC CODE DSKT04 instead of WORKING PC CODE DSKT03.
- 9h.** If the keyboard on your personal computer is a non-U.S. English keyboard, go to Appendix D, "Preparing Attachment Programs for a Non-U.S. English Keyboard." If the keyboard is a U.S. English keyboard, continue with **step 9i**.
- 9i.** The System/36 attachment programs are loaded each time you use your System/36. These programs can be loaded from a PC diskette drive or from a PC disk drive. If you load the programs from a PC diskette drive, your system is a **diskette-based** system. If you load the programs from a PC disk drive, your system is a **disk-based** system.

If you plan to have a **diskette-based** system, go to **step 10** in this manual.

If you plan to have a **disk-based** system, continue with **step 9j**.

- 9j. For a disk-based system, you must copy the programs from the new WORKING PC CODE diskettes to the PC disk drive.

When you copy the attachment programs to a PC disk drive, the system creates a backup subdirectory and copies into it your current S36 subdirectory. The system names the backup subdirectory S36Rnn, where nn is the release level of the subdirectory. Then the system creates a new PC subdirectory named S36, and copies into it the files from the four working PC CODE diskettes.

To copy the System/36 attachment programs to a PC disk drive, insert your new WORKING PC CODE DSKT01 into PC diskette drive A. If the default drive is not A, type A: and press the PC enter key.

Type one of the following:

S36SETUP A: d: /A

or

S36SETUP A: d: /NA

and press the PC enter key.

- d: Specifies the letter of the disk drive you want to copy the programs to; for example, C for disk drive C, or D for disk drive D.
- /A Specifies that the system should build a new AUTOEXEC.BAT file. If you have an existing AUTOEXEC.BAT file, the existing file is copied into the backup subdirectory S36Rnn.
- /NA Specifies that the system should not build the AUTOEXEC.BAT file. This is the default.

Note: If you plan to use host graphics support, you need an AUTOEXEC.BAT file.

- 9k. When the copy is complete, remove the diskette from the diskette drive. Insert the next diskette as prompted, and press the PC enter key. Continue to insert the remaining diskettes as prompted. Press the PC enter key after you insert each diskette.
- 9l. When all four diskettes are copied, the following message is displayed:

S36/PC Setup (Install) Complete.

The message is followed by the DOS prompt.

Step 10: When you load the System/36 attachment programs, an Enhanced 5250 Emulation Program is loaded automatically. The Enhanced 5250 Emulation Program contains the following defaults:

- 5250-style keyboard
- Two emulated sessions
 - Session 1 emulates a display station session (system console).
 - Session 2 emulates a 5256 Printer.

If your system console does not have an attached printer, you must change your emulation options so Session 2 does not emulate a printer.

You must change your emulation options in order to use host graphics support, or if your system console has an attached Enhanced Keyboard or 4202 Proprinter XL.

If you want to change these Enhanced 5250 Emulation Program options, or if you want to use the 5250 profiles you used for the previous release, go to Appendix C, “How to Change Enhanced 5250 Emulation Program Options.” Return here after you change the options.

Step 11: Install the PC PTFs.

If you do not have a PC PTF diskette, go to **step 12**.

If you have a PC PTF diskette, you must apply the PTFs now.

Note: Do not confuse the PC PTF diskette with the System/36 PTF diskette. The PC PTF diskette has a gray label with S/36 PCPTFnnnn, and the System/36 PTF diskette has a white label with S/36 PTFDKnnnn.

11a. Insert the DOS diskette into diskette drive A of the personal computer. (Insert the DOS diskette whether or not you have DOS loaded on a PC disk.)

11b. Press and hold the Alt and Ctrl keys, then press the Del key. (If a warning message is displayed, again press and hold the Alt and Ctrl keys, then press the Del key.) Enter the date and time if prompted. The DOS prompt is displayed. Remove the DOS diskette.

11c. Insert the PTF diskette into diskette drive A of the personal computer.

For a diskette-based system, type:

PTF

and press the PC enter key.

The system displays the name of one of the PC CODE diskettes. Remove the PTF diskette. Insert the WORKING PC CODE diskette indicated on the screen into diskette drive A, and press the PC enter key. Continue inserting into diskette drive A either the PTF diskette or the WORKING PC CODE diskettes as prompted; press the PC enter key after you insert each diskette.

For a disk-based system, type:

d:

where d specifies the letter of the disk drive that contains the S36 subdirectory created in **step 9j**.

Press the PC enter key.

Type:

CD \S36

and press the PC enter key. Type:

A:PTF

and press the PC enter key.

11d. Upon completion you should receive the following message:

PTF application completed successfully.

Step 12: Load the System/36 attachment programs.

For a disk-based system, go to **step 12b**. For a diskette-based system, continue with **step 12a**.

12a. For a diskette-based system, insert the new WORKING PC CODE DSKT04 (or WORKING PC CODE DSKT03 if you have configured for host graphics support) in PC diskette drive A.

Press and hold the Alt and Ctrl keys, then press the Del key. (If a warning message is displayed, again press and hold the Alt and Ctrl keys, and press the Del key.)

Insert WORKING PC CODE DSKT01 when prompted, and press the PC enter key.

If the Service Control menu is displayed, go to **step 13**.

If the Service Control menu is not displayed, enter the date and time if prompted. If the default drive is not A, type A: and press the PC enter key. Then type S36 and press the PC enter key. The Service Control menu is displayed. Continue with **step 13**.

12b. For a disk-based system, remove all diskettes from the personal computer.

Press and hold the Alt and Ctrl keys, then press the Del key. (If a warning message is displayed, again press and hold the Alt and Ctrl keys, then press the Del key.)

If the Service Control menu is displayed, go to **step 13**.

If the Service Control menu is not displayed, enter the date and time if prompted. At the DOS prompt, type d: (where d is the disk drive that contains the S36 subdirectory) and press the PC enter key. Type CD \S36 and press the PC enter key. Then type S36 and press the PC enter key. The Service Control menu is displayed. Continue with **step 13**.

Step 13: To customize the system with the new release microcode:

13a. Insert the new MCODE DSKT11 in the diskette drive of the 5364 System Unit.

13b. On the Service Control menu, select option 5 (*Configure, customize, or verify the system*). Press the PC enter key.

A message is displayed indicating IPL in progress. Other messages might be displayed during the IPL.

13c. After several minutes, display 31, 02, or 08 is shown. The number of the display is shown in the top left corner of the screen.

Note: At this point, the enter key that you will press is the enter key for the style of keyboard you selected (assigned) for the Enhanced 5250 Emulation Program.

13d. If display 31 (Microcode Level Mismatch) is shown, select option 2 to change the microcode level. Press the assigned enter key. On display 30 (Release Level Change), press the assigned enter key.

If display 02 (Configuration Verification) is shown, go to **step 13f**.

If display 08 (Keyboard Character Set Selection) is shown, select the option for your character set. Press the assigned enter key.

13e. On display 10 (Computer Location), select the appropriate option. Press the assigned enter key.

13f. Display 02 (Configuration Verification) is shown.

If the configuration information is correct, select option 1 and press the assigned enter key. Go to **step 13j**.

If you want to change the configuration information, select option 2 and press the assigned enter key. A display is shown to ask what information you want to change. Type in the number for the appropriate option and press the assigned enter key. For some options you will be shown more displays. After the change is made, display 02 is shown again. When the information on display 02 is correct, select option 1 and press the assigned enter key.

*Note: If you select **extended input fields**, the default number of work stations supported is reduced by one-half. This support is used with 3270 Device Emulation.*

13g. Display 35 (Configuration Verification, Features Installed) is shown.

Select option 1 and press the assigned enter key.

Note: If you plan to add features to your system, first complete the release update. Then install the new features, using the documentation that you received with the feature.

13h. On display 03 (Feature Installation), select option 1 (*No features will be installed*) and press the assigned enter key.

13i. Display 16 is shown, prompting you to insert diskette 12. Insert the new MCODE DSKT12 in the diskette drive on the 5364 System Unit and press the assigned enter key.

13j. Display 20 (Program in Process) is displayed while the information is loaded from DSKT12 and processed. This takes several minutes.

13k. Display 17 is shown, prompting you to insert diskette 11. Insert the new MCODE DSKT11 in the diskette drive on the 5364 System Unit and press the assigned enter key.

Continue to insert the MCODE diskettes into the diskette drive on the 5364 System Unit as prompted. Press the assigned enter key after you insert each diskette.

13l. Display 18 (Configure-Customize Completion) is shown. A note on the display indicates that any MPTFs (microcode PTFs) must be reapplied. You will be prompted in a later step to insert the PTF diskette(s) so these MPTFs can be reapplied. Press the assigned enter key to begin the Checkout program. Leave MCODE DSKT11 in the diskette drive.

13m. On display 51 (Device Checkout Selection menu), select option 2 to end checkout; you will not run the checkout procedure. Press the assigned enter key.

13n. Display 52 (End Checkout) is shown. Disregard the message that tells you to return to the *Setting Up Your Computer* manual.

For a disk-based system, go to **step 13p**. For a diskette-based system, continue with **step 13o**.

13o. For a diskette-based system, make sure the new WORKING PC CODE DSKT04 (or the new WORKING PC CODE DSKT03 if you have configured for host graphics support) is in diskette drive A of the personal computer. Remove the diskette from the diskette drive of the 5364 System Unit.

Press and hold the Alt and Ctrl keys, then press the Del key. A warning message is displayed. Again, press and hold the Alt and Ctrl keys, then press the Del key. Insert the next diskette as prompted. The system is reloaded and the Service Control menu is displayed. Go to **step 14**.

13p. For a disk-based system, remove all diskettes from the diskette drive of the personal computer and from the diskette drive of the 5364 System Unit.

Press and hold the Alt and Ctrl keys, then press the Del key. A warning message is displayed. Again, press and hold the Alt and Ctrl keys, then press the Del key. The system is reloaded. If the Service Control menu is displayed, go to **step 14**.

If the Service Control menu is not displayed, enter the date and time if prompted. At the DOS prompt, type `d:` (where `d` is the disk drive that contains the S36 subdirectory) and press the PC enter key. Type `CD \S36` and press the PC enter key. Then type `S36` and press the PC enter key. The Service Control menu is displayed. Continue with **step 14**.

Step 14: Install the new SSP.

- 14a.** Insert the first SSP diskette (labeled 5727-SS6, VOL01) into the diskette drive of the 5364 System Unit.
- 14b.** On the Service Control menu, select option 4 (*Reload the SSP and microcode*). Press the PC enter key.

A message is displayed indicating IPL is in progress. Other messages might be displayed during the IPL. This takes several minutes.

- 14c.** When the SSP Generation and Reload – Sign On display appears at the system console, type in your user-ID and, if the password prompt appears, type your password. If you are prompted to load microcode, respond with N (No). Press the assigned enter key.

Note: At this point, the enter key that you press is the enter key for the style of keyboard you selected (assigned) for the Enhanced 5250 Emulation Program.

If an SSP level error message is displayed, make sure you are using your new release SSP and microcode diskettes, then press the assigned enter key to continue.

- 14d.** When the system unit finishes reading the first SSP diskette (an alarm sounds in the system console indicating the diskette was read), remove the first SSP diskette.

Continue inserting the SSP diskettes as prompted. The system might not prompt for all of the diskettes. The system might prompt for diskettes out of sequence and might prompt for the same diskette more than once. The prompts usually identify each diskette by the diskette label name and volume number. For example, 5727-SS6, 2 is the prompt for volume 02 of the SSP. However, if the prompt asks only for the next diskette, use the next sequential diskette. Insert the diskette indicated by the current prompt into the diskette drive of the 5364 System Unit and press the assigned enter key.

As the system loads the programming support, it displays messages indicating what is being loaded.

If you are prompted for the microcode diskette, insert the new diskette labeled MCODE DSKT12 into the diskette drive of the 5364 System Unit. Press the assigned enter key.

If you get an error message during the reload of the SSP and microcode, you can use one of the following methods to attempt to recover:

- Correct the error condition and return to **step 14a**, using the new release diskettes.
- If you cannot correct the error condition immediately (for example, you might need a replacement diskette), you can reload the previous release. To reload the previous release:

- Use the diskettes you used to load the previous release.

You need the SSP diskettes, microcode diskettes, PTF diskettes, program product diskettes, and feature diskettes for the release you want to load.

All of your diskettes must be at the same release level.

- Use the documentation you used to load the previous release.

When you loaded the previous release, you used either the setup manual, *Installing and Customizing Your System*, or a previous edition of the *Updating to a New Release* manual. Use the same manual you used before to reload the previous release.

Your documentation must be at the same release level as your diskettes.

- 14e.** After the SSP and microcode have been loaded, one or more of the following messages will appear:

```
IPL initialization in progress-please standby.  
SSP reload complete, remove diskettes.  
Microcode load complete, remove diskette.
```

Remove the remaining diskette from the diskette drive of the 5364 System Unit.

- 14f.** After a few seconds, the system automatically performs an IPL from disk.

If the system is unable to increase a system area to the size specified in the master configuration record, system message

```
SYS-3917  Unable to increase size of system area
```

is displayed. The system area will be increased as much as possible.

- 14g.** The IPL Sign On display will be shown. Respond to the prompts on the IPL Sign On display. For the

Overrides?

prompt, specify N (No) except in the following cases:

- If you have specified *Automatic Vary On* for your remote work stations, specify Y (Yes) for the overrides prompt. Select the option to change communications status (option 3), then specify N (No) for the option to vary on remote work stations.
- If you have a startup procedure (#STRUP1 or #STRUP2) that automatically starts a job or enables a subsystem, and if this procedure is not stored in #LIBRARY, specify Y (Yes) for the overrides prompt. Select the option to display programs to be run during IPL (option 2), then specify N (No) for the startup procedure.

Step 15: Update any SSP programming features and program products currently on your system. Also, you will be prompted to apply PTFs at the end of this step; apply the System/36 PTF diskette(s) if you have received any.

15a. On a System/36 command line, type the following command:

```
CNFIGSSP
```

Press the assigned enter key.

15b. On the CNFIGSSP Main menu (display 1.0), select option 13 to *Rebuild the master configuration record (Update to next release)*. Press the assigned enter key.

15c. If you get an error message at any point in **step 15** and you can select only option 2 or 3, press the Print key to record the error. Then select option 3 to terminate the CNFIGSSP procedure. You can use one of the following methods to attempt to recover:

- Correct the error condition, and begin the CNFIGSSP procedure again. Create a new configuration member based on the configuration in the master configuration record. Save the configuration member, then select option 12 on the CNFIGSSP Main menu and specify the new configuration member. Only the support that did not load during the release update will be loaded.
- If you cannot correct the error condition immediately (for example, you might need a replacement diskette), you can try to use the new release programming that has successfully loaded. (If you have a diskette-based system, insert working PC CODE DSKT04; use DSKT03 if you are using host graphics support.) Press and hold the Alt and Ctrl keys, then press the Del key. A message is displayed. Again, press and hold the Alt and Ctrl keys, then press the Del key.

When you correct the error condition that required termination of the update, begin the CNFIGSSP procedure again. Create a new configuration member based on the configuration in the master configuration record. Save the configuration member, then select option 12 on the CNFIGSSP Main menu and specify the new configuration member. Only the support that did not load during the release update will be loaded.

- If you cannot correct the error condition immediately because you need a replacement diskette and most of the support has successfully loaded, you can try to use the new release programming that has successfully loaded. (If you have a diskette-based system, insert working PC CODE DSKT04; use DSKT03 if you are using host graphics support.) Press and hold the Alt and Ctrl keys, then press the Del key. A message is displayed. Again, press and hold the Alt and Ctrl keys, then press the Del key. Select option 3 on the Service Control menu to IPL from disk, and sign on the system. Then begin the CNFIGSSP procedure again to create a new configuration member based on the configuration in the master configuration record. Place a minus (-) beside the prompt for the support that cannot be loaded. (If you place a minus beside support that is required for another product, you must also place a minus beside the other product.) Save the new configuration member, then select option 12 from the CNFIGSSP Main menu to apply the change to the master configuration record. Be sure to specify the new configuration member. Only the support that did not load during the release update will be loaded. The manual *Changing Your System Configuration* has more information about the CNFIGSSP procedure, and which programming support is required for other programming support.

When you have the replacement diskette, run the CNFIGSSP procedure and place a plus (+) for the support in the configuration member. Save the member, then use option 12 with the changed configuration member. Only the support with the plus (+) will be loaded.

- 15d.** On display 3.0 (Configuration Member Definition), select option 5 (*Master configuration*). Press the assigned enter key.
- 15e.** You are prompted to insert each diskette required to update your current programming support. The prompts usually identify the diskette by diskette label name and volume number. For example, 5727-SS6, 3 is the prompt for volume 03 of the SSP. If the prompt asks only for the next diskette, use the next sequential diskette. Insert the diskette indicated by the current prompt into the diskette drive of the 5364 System Unit, type 0 (zero), and press the assigned enter key.
- 15f.** When the SSP programming features and program products reload is complete, respond to the prompt:

Do you want a printout of this configuration?

Respond with a Y (Yes) or N (No). Press the assigned enter key.

If you respond with a Y (Yes), save the printout for future reference. You might want to have such a printout if you will be adding additional software or hardware.

Wait until the printing stops before you continue.

15g. Respond to the following prompt. The default for this prompt is Y (Yes).

Did you receive a special PTF diskette with your set of SSP diskettes?

If you did not receive PTF diskettes, type in an N (No) and press the assigned enter key. Continue with **step 15h**.

Note: Do not confuse the PC PTF diskette with the System/36 PTF diskette; the PC PTF diskette has a gray label with S/36 PC PTFnnnn, and the System/36 PTF diskette has a white label with S/36 PTFDKnnnn.

If you received one or more System/36 PTF diskettes, remove the diskette remaining in the diskette drive. Press the assigned enter key. You are prompted to insert the PTF diskette. Insert the first System/36 PTF diskette (labeled VOL01) into the diskette drive of the 5364 System Unit, type 0 (zero), and press the assigned enter key. If you have more than one System/36 PTF diskette, continue inserting the PTF diskettes as prompted. Insert the diskettes in sequence, and do not respond to the prompt until after you have inserted a diskette.

If you received System/36 PTF diskettes, but this prompt is not displayed, complete the release update and then install the PTF diskettes. The manual *Operating Your System* has instructions on installing PTF diskettes.

Note: If you plan to install new program products after you complete your release update, install the System/36 PTF diskettes again after you install the new program products.

If the message:

SYS-3349 The PTF library named above will be deleted
is displayed, type 0 (zero) and press the assigned enter key to continue.

15h. When the following message appears:

System configuration complete.
Press the enter key in order to IPL from disk.

remove the remaining diskette from the diskette drive and press the assigned enter key.

If the message:

SYS-3914 System area will be cleared
is displayed, press the assigned enter key to continue.

15i. The IPL Sign On display will be shown. Respond to the prompts on the IPL Sign On display. For the Overrides? prompt, make sure N (No) is specified.

Step 16: If you applied PTFs in **step 15**, you should condense your system library. You must have a dedicated system to condense your system library. **Step 5** has instructions to make sure your system is dedicated.

To condense your system library, type the following on a System/36 command line:

```
CONDENSE #LIBRARY
```

Press the assigned enter key.

Step 17: If you copied any user members to diskette in **step 7**, return these members to a library on disk. If you did not copy user members to diskette, go to **step 18**.

Note: You and your system manager or programmer should consider placing the user members you copied from the system library, #LIBRARY, in a user library instead of #LIBRARY. Similarly, if you had user members in program product libraries (such as #RPGLIB), you might want to place them in user libraries as well.

Use the TOLIBR procedure to return to disk the user members you copied to diskette. To use the TOLIBR procedure, insert into the diskette drive of the 5364 System Unit the diskette you used to copy the members. Type the following:

```
TOLIBR
```

and press the Help key. The TOLIBR help screen is displayed.

1. For the *Name of file containing library members* prompt, type the name of the diskette file you used when you copied the members to diskette. In our example, we used the name USERMEM for the user members in #LIBRARY. The name you used may be different.
2. For the *Name of library to contain members* prompt, type the name of the library you want to place the members in.

Do not change the other parameters. Press the assigned enter key.

The *Procedures and Commands Summary* has more information about the TOLIBR procedure.

Step 18: Because #LIBRARY, the microcode, and the program product libraries have been replaced, consider the following:

- If you updated from Release 4 or a previous release, and if you have DisplayWrite/36 folders on your system, you must convert the folders to the Release 5 format. You can convert all the folders at one time by using the DOCCNV procedure. The manual *Procedures and Commands Summary* has information about the DOCCNV procedure. If you do not use the DOCCNV procedure to convert the folders, each folder will be converted the first time it is used. (It takes approximately 3 minutes to convert a folder containing 500 documents.) Because the converted folders cannot be used with your previous release programming, make sure your release has been successfully loaded before you convert your folders. Make sure you have a backup copy of each folder before it is converted. (If you updated from Release 5, Modification Level 0, your folders are already converted.)
- If you updated from Release 4 or a previous release, and if you added tape support to your system before you updated to Release 5, you must add this support to your configuration before the support will be reloaded on your system. Refer to “If You Are Adding New Programming Support” in the next chapter for more information.
- If you had other IBM programs installed on your system before the release update, you may have to load these programs again. Use the same procedure you used when you loaded the programs the first time. (Other programs are programs that were not included in the program products table in **step 2d**.)
- If you have used the RESPONSE procedure to change automatic response values for messages, these changes will no longer be in effect after the release update. Run the RESPONSE procedure again for each automatic response member. The *Procedures and Commands Summary* has information about the RESPONSE procedure.
- If any IBM modules in #LIBRARY or in any program product library were modified before the release update, these modifications were removed during the release update. If the modifications are still required, they must be made again.

- If you have disabled any SSP-ICF subsystems or sessions, or have placed any remote work stations offline, the manual *Operating Your System* has information to enable the subsystems or sessions with the ENABLE command, and information to place the remote work stations online with the VARY ON command.
- If you had PC Support/36 installed on your system before the release update, you need to reinstall the PC Support/36 program on the personal computer. The manual *PC Support/36 Technical Reference*, SC21-9097, has information about installing this support using an install diskette.
- If you had 3278 emulation via IBM Personal Computer installed on your system before the release update, refer to the *3278 Emulation via IBM Personal Computer – User's Guide*, SC09-1086, for information to copy the 3278 emulation program to the personal computer.

Step 19: Change the service level to *Normal*.

19a. Display the Service Selection menu by pressing the Alt and Esc keys at the same time.

1. On the Service Selection menu, select option 3 (*Service*). Press the PC enter key.
2. On the Service Control menu, select option 1 (*Change service level*). Press the PC enter key.
3. On the Service Level menu, select option 1 (*Change service level*). Press the PC enter key.
4. On the Change Service Level display, type the service password for the first prompt. (The default service password is **PASSWORD** and the default master password is **MASTER**. If your passwords have been changed, use the current password.) If your password has less than 8 characters, press the PC tab key to move the cursor to the second prompt.

Select option 1 (*Normal*) for the second prompt. Press the PC enter key.

The manual *Operating Your System* has more information about changing the service level.

19b. Press both the Alt and Esc keys; the Session Selection menu is displayed.

19c. On the Session Selection Menu, select option 2 (*System/36 display station*). Press the PC enter key.

Step 20: The support you currently have installed on your system has been updated.

Because you increased the size of the system library (#LIBRARY) before the release update, you might have unused space in #LIBRARY. You can decrease the size of #LIBRARY. (If you plan to add programming support to your system, do not decrease the size of #LIBRARY until after you have added the support.) To determine if you have unused space in #LIBRARY:

1. Use the CATALOG procedure to find the current size of #LIBRARY.
2. Use the configuration support aids to calculate the recommended #LIBRARY size. Chapter 8 in the manual *Changing Your System Configuration* has instructions to use the configuration support aids.
3. Compare the current #LIBRARY size to the recommended size. If the current size is much larger than the recommended size, decrease the size of #LIBRARY.

To decrease the size of the system library:

1. Use the SLIB procedure to change your session library; you cannot change the size of #LIBRARY if it is the current session library.
2. Use the ALOCLIBR procedure to change the size of #LIBRARY. Add 100 blocks to the recommended #LIBRARY size, and use this value to set the new size of #LIBRARY.

Back up #LIBRARY, other libraries, files, and folders. See Appendix A, “Backing Up System/36 Libraries and Diskettes” on page A-1 for information about saving libraries, files, and folders. Also, retain your backup copies from the previous release until you are sure your system is functioning correctly with the new release.

Store your diskettes in a safe place. You should keep the diskettes that contain your current release of SSP, microcode, PTFs, and other programming support. Store them with this manual in case you need to reload your system.

If you plan to add new support to your system, go to Chapter 3, “If You Are Adding New System Support.”

Chapter 3. If You Are Adding New System Support

If you are adding new system support, you will use the CNFIGSSP procedure to change your configuration member and master configuration record. The manual *Changing Your System Configuration* has instructions for the CNFIGSSP procedure. In addition, there might be other tasks to perform while adding your new support.

Use the following lists as an outline of the tasks necessary for adding the new support.

Adding New Programming Support

1. If you are adding new programming support, you might need to increase the size of your system library (#LIBRARY) before you add the support. To check the current size of #LIBRARY, enter the following:

```
CATALOG #LIBRARY
```

This procedure tells you the number of blocks currently in #LIBRARY. It also tells you the total number of blocks on your disk (device capacity), and how much space is available on disk.

2. Make sure you have enough disk space available to add the new programming support and increase #LIBRARY. Appendix B in the manual *Changing Your System Configuration* lists the space required on disk and in #LIBRARY for each program product and feature.

3. Increase the size of #LIBRARY by the number of blocks required for the new support:

- a. Type the following on a System/36 command line:

```
COMPRESS A1,FREELOW
```

Press the assigned enter key.

- b. To increase the size of #LIBRARY, type the following:

```
ALOCLIBR #LIBRARY,nnnnn, , , INCR
```

where nnnnn is the number of blocks to increase #LIBRARY.

Press the assigned enter key.

4. To make disk space available to load new programming support, type the following on a System/36 command line:

```
COMPRESS A1,FREEHIGH
```

Press the assigned enter key.

5. Use the CNFIGSSP procedure to add the new programming support to your configuration member. Chapter 3 in *Changing Your System Configuration* has instructions.
6. Copy the changes from your configuration member to the master configuration record. Use option 12 (*Apply change to the master configuration record*) on the CNFIGSSP Main menu (display 1.0). You will be prompted to insert the diskettes for any new programming support.
7. Apply the System/36 PTF diskette or diskettes again (if you received PTF diskettes with your new release diskettes) after you install any new program products. The manual *Operating Your System* has instructions on installing the PTF diskettes.

Adding New Display Stations or Printers

If you are adding new display stations or printers, they must be added to the master configuration record *after* they are installed. The manual *Changing Your System Configuration* has instructions to perform the following tasks.

1. Local display stations and printers are automatically added to the master configuration record during IPL. However, you will need to copy the master configuration record to a new configuration member. “Using Automatic Configuration” in Chapter 2 of the manual *Changing Your System Configuration* has instructions.
2. Remote display stations, printers, and remote controllers must be added to the master configuration record by using the CNFIGSSP procedure. “Adding or Deleting Remote Work Stations” in Chapter 2 of the manual *Changing Your System Configuration* has instructions to make additions to the configuration member.
3. You might also want to use the CNFIGSSP procedure to make one of the following changes for your new work stations:
 - Change the characteristics of a new printer. You can change characteristics such as lines per inch, number of separator pages, and whether you want the printer to automatically vary on at IPL.
 - Change the characteristics of a new display station. You can change characteristics such as display type, heading lines and borders for print key output, and whether you want the display station to automatically vary on at IPL.
 - Assign default printers to your new display stations.
 - Assign subconsoles to your new printers.
 - Assign a new printer as the system printer.
 - Change work station IDs.
4. If you change your configuration member, copy the new information to the master configuration record. Use option 12 (*Apply change to the master configuration record*) on the CNFIGSSP Main menu (display 1.0).

Backing Up Your System after Adding New Support

After adding any new system support, back up #LIBRARY and your other libraries, files, and folders. See Appendix A, “Backing Up System/36 Libraries and Diskettes” for information about saving files and libraries. Also, retain your backup copies from the previous release until you are sure your system is functioning correctly with the new release.

Appendix A. Backing Up System/36 Libraries and Diskettes

This appendix has brief instructions on how to save to diskette the System/36 libraries, files, and folders that are loaded on your system. It also has instructions to copy SSP diskettes, System/36 microcode diskettes, and program product diskettes.

|
|
|
|

If you have the Software Distribution Support feature, you can use this feature to back up your programming support more easily than the procedures documented in this appendix. Refer to the BUILD operation in the manual *Guide to Installing Multiple Systems*, SA21-9867.

Backing Up Libraries

Any time you add programming support or make other changes to your system configuration, you should make new backup copies of your system programming. This appendix has brief instructions on how to save the system library (#LIBRARY), the configuration library (#CNFGLIB), and program product libraries, files, and folders to diskette. The manual *Operating Your System* has detailed instructions for saving libraries, and instructions to save a System/36 PTF library. The manual *Changing Your System Configuration* has instructions to restore the programming support, and instructions to use tape to back up programming support.

Step 1: Determine how many 2HD diskettes you need to save the libraries or folders.

For #LIBRARY and #CNFGLIB, use the configuration support aids to determine how many diskettes you need to save each library.

- 1a. To use the configuration support aids, type the following on a System/36 command line:

```
CNFIGSSP
```

Press the assigned enter key.

- 1b. On the CNFIGSSP Main menu (display 1.0), select option 10 (*Configuration support aids*). Press the assigned enter key.
- 1c. On the Support Aids menu (display 34.0), select option 4 (*Number of diskettes needed to save a library*). Press the assigned enter key.
- 1d. Type the name of the library to be saved. For the system library, use the name #LIBRARY. If you store your configuration members in #CNFGLIB, use that name for the configuration library. Press the assigned enter key.

The display will show how many diskettes are required to save the library.

- 1e. Press the assigned enter key to return to display 34.0.
- 1f. Press command key 3 to return to display 1.0.
- 1g. Select option 14 (*End CNFIGSSP*). Press the assigned enter key.

For other libraries, files, and folders, the number of diskettes required for each online information product is included in the following tables.

Step 2: Use the INIT procedure to initialize the backup diskettes.

Insert a 2HD backup diskette into the diskette drive of the 5364 System Unit. Type INIT and press the Help key. The INIT help screen is displayed.

2a. For the *volume ID* parameter:

- Type SYSTEM for the system library (#LIBRARY) or the configuration library (#CNFGLIB).
- Type the volume ID indicated in the tables in this appendix for the other libraries or folders.

2b. For the *Initializing function*, type FORMAT2.

2c. Press the assigned enter key.

If there are active files on the diskette, the system will issue a message. If you no longer need the files on the diskette, type 0 (zero) and press the assigned enter key to continue. If you do need the files on the diskette, type 3 and press the assigned enter key to end the procedure. Use a different diskette and begin the INIT procedure again.

Step 3: Save the library or folder.

Insert the initialized 2HD diskette into the diskette drive of the 5364 System Unit.

3a. To save the system library or configuration library, type SAVELIBR and press the Help key. The SAVELIBR help screen is displayed:

1. For the *Name of the library to be saved*, type #LIBRARY for the system library, or #CNFIGLIB for the configuration library.
2. For the *Volume ID*, type SYSTEM.
3. Press the assigned enter key. If more than one diskette is required, you are prompted to insert the remaining diskettes.

3b. To save other libraries or folders, type the procedure name indicated on the following table and press the Enter key. If more than one diskette is required, you are prompted to insert the remaining diskettes.

The table on the next page has the volume ID and the name of each program product library, the procedure to use to save the library, and the number of 2HD diskettes required to save the library.

Programming Support	Volume ID	Procedure Name	Library or File Name	Number of Diskettes
RPG II	PPRPG	RPGBSAVE	#RPGLIB	1
Assembler	PPASM	ASMSAVE	#ASMLIB	1
COBOL	PPCOBL	COBSAVE	#COBLIB	1
FORTTRAN IV	PPFORT	FORTSAVE	#FORTLIB	1
BASIC	PPBASC	BASSAVE	#BLLIB	1
DFU	PPUTIL	DFUSAVE	#DFULIB	1
WSU	PPUTIL	WSUSAVE	#WSULIB	1
SEU	PPUTIL	SEUSAVE	#SEULIB	1
SDA	PPUTIL	SDASAVE	#SDALIB	1
PC Support/36	PPIWS	IWSAVE	#IWLIB	2
PC Support/36 Organizer	PPIWS	PCOSAVE	#IWLIB	1
Shared Folders	PPIWS	SHFRSAVE	#IWLIB	1
PC Support/36 IBM Token-Ring Network Support	PPIWS	LRTRSAVE	#IWLIB	1
PC Support/36 Pass-Through	PPIWS	IWPTSAVE	#IWLIB	1
PC Support/36 Work Station Feature	PPWSF	WSFSAVE	#IWLIB2	1
LAN Communications Support	PPLAN	LANSAVE	#LANLIB	1
BGU/36	PPBGU	BGUSAVE	#BGULIB	2
DSU	PPDSU	DSUSAVE	#DSULIB	2
Online Problem Determination	PPOLPD	OLPDSAVE	#ONLPD	2 ¹
CGU	PPSSP	CGUSAVE	#CGULIB	1
IGC Sort	PPSSP	SRTXSAVE	#SRTXLIB	1
DisplayWrite/36	PPTXT	TEXTSAVE SAVEFLDR	#TULIB #PRFFLDR	2
Personal Services/36	PPOFC	OFCSAVE	#OFCLIB	4
Personal Services/36 PROFS Bridge	PPOFC	PROFSAVE	#OFCLIB	1
Document Library Services	PPOFC	DLSSAVE	#OFCLIB	1
Query/36	PPQRY	QRYSAVE	#QRYLIB	1
Software Distribution Support	PPSWD	SWDSAVE	#SWLIB	2
Support for Printing Online Information	PPSSP	DOCPSAVE	#TULIB	1
3278 Device Emulation via IBM Personal Computer	PPETEM	SAVE	#EPPCLD1	1
¹ For some systems, you only need one diskette.				

The following table has the volume ID and the folder name of each DisplayWrite/36 Language Dictionary, the procedure to save the dictionary, and the number of 2HD diskettes required. When you save a dictionary with the DICTSAVE procedure, you are prompted for the name of the dictionary.

Dictionary	Volume ID	Procedure Name	Folder Name	Number of Diskettes
DW/36 Language Dictionaries:				
English	PPENG	DICTSAVE	#TUENG	2
French	PPFRN	DICTSAVE	#TUFRN	1
French-Canada	PPFRC	DICTSAVE	#TUFRN	1
Spanish	PPSPN	DICTSAVE	#TUSPN	1
Italian	PPITN	DICTSAVE	#TUITN	1
Danish	PPDAN	DICTSAVE	#TUDAN	1
German	PPGER	DICTSAVE	#TUGER	1
Swedish	PPSWE	DICTSAVE	#TUSWE	1
Norwegian	PPNOR	DICTSAVE	#TUNOR	1
Dutch	PPDUT	DICTSAVE	#TUDUT	1
Icelandic	PPICE	DICTSAVE	#TUICE	1
Portuguese	PPPOR	DICTSAVE	#TUPOR	1

The following table has the name, volume ID, and number of 2HD diskettes required to save each online information product. It also has the name of the folders and files included with each product and the procedure to save each folder and file.

Online Information Product	Volume ID	Procedure Name	Folder or File Name	Number of Diskettes
DW/36 Online Information	PPTXT	SAVEFLDR SAVEFLDR	#WPFLDR WPDOCS	2
Personal Services/36 Online Information	PPOFC	SAVEFLDR SAVEFLDR SAVELIBR SAVE	#OFCFLDR #DIRSMP #DQRYMPS \$OUDRSMP	3
DLS Online Information	PPOFC	SAVEFLDR	#DLSFLDR	1
Query/36 Online Information	PPQRY	SAVEFLDR	#QRYFLDR	2
Interactive Data Definition Utility (IDDU) Online Information	PPMRI	SAVEFLDR SAVEFLDR SAVEFLDR SAVE SAVE SAVE	#IDDFLDR #IDDUSMP #USERDCT CUSTCDT NAMEADDR NAMEPHON	1
DSU Online Information	PPDSU	SAVEFLDR	#DSUFLDR	1
Shared Folders Online Information	PPIWS	SAVEFLDR	#WPFLDR ¹	1
¹ If DW/36 online information is on your system, shared folders online information in #WPFLDR is saved when DW/36 online information is saved.				

When you save a folder with the SAVEFLDR procedure, you are prompted for the name of the folder and the volume ID. Use the name and volume ID indicated in the table. You are also prompted for the compress parameter; change the default to COMPRESS. The diskette requirements in the table are based on using the COMPRESS parameter.

When you save a file with the SAVE procedure, you are prompted for the name of the file and the volume ID. Use the name and volume ID indicated in the table.

Notes:

1. *The manual **Changing Your System Configuration** has instructions to restore these libraries, files, and folders.*
2. *These procedures are only for backing up your programming support. Do not use these procedures to copy support to send to another system unless you also load the same #LIBRARY on the other system.*

Backing Up System/36 SSP and Program Product Diskettes

If you want to copy System/36 SSP or program product diskettes, you must initialize the backup diskette, then copy the diskette.

Step 1: Initialize the backup diskettes.

For each diskette you want to copy, insert a 2HD diskette into the diskette drive of the 5364 System Unit. Type `INIT` and press the assigned help key. The `INIT` help screen is displayed.

- a. For the *Volume ID*, use the volume IDs indicated in the tables in this appendix for the program product diskettes. For the SSP diskettes, use the following volume IDs:
 - For volumes 1 through 8, use `PPMRI`.
 - For volumes 9 through 13, use `PPSSP`.
 - For volume 14, use `PPOLPD`.
- b. For the *Initializing function*, type `FORMAT2`.
- c. Press the assigned enter key.

If there are active files on the diskette, the system will issue a message. If you no longer need the files on the diskette, type 0 (zero) and press the assigned enter key to continue. If you do need the files on the diskette, type 3 and press the assigned enter key to end the procedure. Use a different diskette and begin the `INIT` procedure again.

Step 2: Copy the diskette.

Insert the diskette to be copied into the diskette drive of the 5364 System Unit. Type `COPYI1` and press the assigned help key. The `COPYI1` help screen is displayed.

- a. For *Volume ID*, use the same volume ID you used to initialize the backup diskette.
- b. Press the assigned enter key.

Backing Up System/36 Microcode Diskettes

You should always have a backup copy of your System/36 microcode diskettes. These diskettes are labeled MCODE DSKT11 and MCODE DSKT12. To back up the microcode diskettes, you must initialize the backup diskettes, then copy the microcode diskettes.

Step 1: Initialize the backup diskettes.

For each microcode diskette you want to back up, insert a blank 2HD diskette into the diskette drive of the 5364 System Unit. Type the following on a System/36 command line:

```
INITDIAG
```

Press the assigned enter key.

If there are active files on the diskette, the system will issue a message. If you no longer need the files on the diskette, type 0 (zero) and press the assigned enter key to continue. If you do need the files, type 3 and press the assigned enter key to stop the procedure. Use a different diskette and begin the INITDIAG procedure again.

Step 2: Copy the microcode.

- a. Insert the microcode diskette you want to copy into the diskette drive of the 5364 System Unit. Type the following on a System/36 command line:

```
COPYDIAG
```

Press the assigned enter key. The system reads the microcode from the diskette.

- b. After the system reads the diskette, you are prompted to insert the diskette to receive the backup copy. Remove the microcode diskette and insert the initialized backup diskette into the diskette slot of the 5364 System Unit.

Type 0 (zero) and press the assigned enter key.

After the system copies the diskette, a message is displayed indicating that the copy has been made, and prompting for a diskette for another copy. If you want another copy of the same diskette, replace the new copy with another initialized diskette, type 0 (zero) and press the assigned enter key. If you do not want another copy of the same diskette, type 3 and press the assigned enter key to stop the COPYDIAG procedure.

Label each backup copy of the microcode diskette. Include the information in the IDENT field of the original label, and specify the release level of the diskette.

Step 3: Repeat **step 2** to copy each additional microcode diskette.

Appendix B. Source Entry Utility (SEU) Source Format Member

If you have SEU source format members on your system, you might have a member named #SE@XTRA in your system library. This member contains formats for use with SEU. Although this member is created by SEU, it is treated by the system as a user member. This is to enable you to change or add to the formats.

When the new programming support is loaded, the system loads a new #SE@XTRA member. If you save #SE@XTRA with your other user members, when you restore your user members to the system library, a system message SYS-2510 will be displayed telling you there is a duplicate member in the system library.

- **If you have *not* changed or added to the formats in #SE@XTRA,** you should remove the member from your system library before you continue the release update. To remove the member, type the following:

```
REMOVE #SE@XTRA,LIBRARY,#LIBRARY
```

Press the assigned enter key and return to **step 7** on page 2-4.

- **If you have changed or added to the formats in #SE@XTRA, and you want to continue to use the changed or added formats, you can either rename the member or replace the new member with your member when you restore the user members to the system library.**

- If you want to rename the member, type the following:

```
CHNGEMEM #SE@XTRA,LIBRARY,#LIBRARY,new name
```

Press the assigned enter key. If you rename the member, you will have the formats you changed or added, in addition to the new member named #SE@XTRA which will be loaded by SEU. However, when you begin an SEU session and want to use the changed or added members, you must specify the new member name for the prompt that asks for the name of the member containing SEU formats. (This prompt defaults to #SE@XTRA.) Return to **step 7** on page 2-4.

- If you want to replace the new #SE@XTRA member with the member that contains your changed or added formats, continue with the release update. When you restore the user members to the system library in **step 16**, the system message SYS-2510 will be shown. Respond with a zero (0) option. The system will replace the new member with your member. Now return to **step 7** on page 2-4.

Appendix C. How to Change Enhanced 5250 Emulation Program Options

The Enhanced 5250 Emulation Program allows the personal computer to emulate 5250 display stations, and allows the printers attached to the personal computer to emulate System/36 printers. The manual *Operating Your System* has more information about 5250 emulation.

This appendix has instructions to:

- Change 5250 emulation defaults (without host graphics support)

When you update to a new release, and you do not want to use the default emulation options, you can change the defaults for the emulation program. To change defaults for 5250 emulation, follow the steps in “Changing the Defaults for 5250 Emulation” on page C-2.

- Change 5250 emulation defaults (with host graphics support)

If you want to use graphics support, you must change the emulation options. Follow the steps in “Changing the Defaults for Host Graphics Support” on page C-4.

Note: If you include graphics support in your profile data and later decide not to use the support, you must use the CONFIG procedure again to change your emulation profile data.

- Convert a Release 3 keyboard profile

If you are updating from a release other than Release 3, you do not need to convert your keyboard profiles.

If you are updating from Release 3, and if you changed your keyboard profile in Release 3, you can convert the keyboard profile and use it for this release. Follow the steps in “Converting the Keyboard Profile You Used in Release 3” on page C-12.

Changing the Defaults for 5250 Emulation

1. Make sure you do not have a System/36 session active.
2. **If your attachment programs are on PC diskettes**, insert the new WORKING PC DSKT02 in PC diskette drive A.

If your attachment programs are on a PC disk:

- a. Display the DOS prompt.
 - b. Type `CD \S36` and press the PC enter key.
3. On the DOS prompt, type the following:
`CONFIG`

Press the PC enter key. Help text is available during the CONFIG procedure.
 4. When the IBM logo is displayed, press the PC enter key.
 5. When the informational screen is displayed, read the information and press the PC enter key.
 6. On the Set Number of Sessions display, type the number of emulated sessions (1 or 2) you want. Press the PC enter key.
 7. On the Keyboard Customization File menu, type the number for the style of keyboard you want.

If you are using the Enhanced Keyboard, type 5. A prompt is shown for the name of the profile. Type `KBEP.C.PRO`.

Press the PC enter key.

If you selected 1 session, go to **step 10** in this topic. If you selected 2 sessions, continue with **step 8**.

8. On the Select Session 2 Type display, select the type of session you want to emulate for session 2. (Session 1 is always a display station session.) Type the number for the type of session you want and press the PC enter key.

If you selected 3 (*Display emulation*), go to **step 10** in this topic.

If you selected 1 (*5256 printer emulation*) or 2 (*5219 printer emulation*), continue with **step 9** in this topic.

9. On the Attached Printer List display, type the number for the appropriate printer.

If you have an IBM 4202 Proprinter XL and you select option 3 (*IBM Proprinter*), the wide carriage function will print in condensed (15 CPI) mode.

*Note: If you do not want condensed mode, you should create a printer description table for the 4202 Printer. (Instructions for creating a printer description table are in Appendix B in the manual **Operating Your System**.) After you have created this table, select option 8 (**Table driven [user-defined] printer**); a prompt is displayed for the name of the table. Type the name of the table you created.*

Press the PC enter key.

10. The Advanced Options menu gives you the option to quit or continue the configuration. Type 1 to save the profile and press the PC enter key.
11. The Save Profile Data display shows the default name for the file that will contain the profile data. Press the PC enter key.
12. The Advanced Options menu gives you the option to quit or continue the configuration. Type 2 to quit and press the PC enter key.
13. **If your attachment programs are on a PC disk, go to step 15 in this topic.**

If your attachment programs are on PC diskettes, continue with the next step.

14. If your personal computer has two diskette drives, insert working PC DSKT01 into PC diskette drive B.

Type the following:

```
COPY DP5250.DAT B:
```

Press the PC enter key.

If your personal computer has one diskette drive, insert the new WORKING PC CODE DSKT01 into the PC diskette drive when the system prompts you for the diskette for drive B.

15. Return to the step you were doing in Chapter 2, "Installing the Release Update." Or, if you are updating from Release 3, and if you want to convert a Release 3 keyboard profile, go to "Converting the Keyboard Profile You Used in Release 3" on page C-12.

Changing the Defaults for Host Graphics Support

To complete the following steps, you must know how to use a personal computer editor, and how to copy and erase PC files. If your attachment programs are on diskette, you might want to print the directory for each of the four PC CODE diskettes before you begin. If your attachment programs are on disk, you might want to print the directory for the S36 subdirectory.

Before you begin, determine which device driver you need. (You will need to know which device driver to use in a later step.) The following device drivers are included in the attachment programs. If your attachment programs are on diskette, the device drivers are on the new WORKING PC CODE DSKT03. If your attachment programs are on disk, the device drivers are in the S36 subdirectory. Use the following list to determine which device driver you want, depending on your display, your adapter, and the resolution you want for your display.

- VDIY004: For IBM 5153 Color Graphics Monitor with a Color Graphics Adapter, using 320x200 resolution
- VDIY006: For IBM 5153 Color Graphics Monitor with a Color Graphics Adapter, using 640x200 resolution
- VDIY00D: For IBM 5153 Color Graphics Monitor with an Enhanced Graphics Adapter, using 320x200 resolution
- VDIY00E: For IBM 5153 Color Graphics Monitor with an Enhanced Graphics Adapter, using 640x200 resolution
- VDIY00F: For IBM 5151 Monochrome Display with an Enhanced Graphics Adapter, using 640x350 resolution
- VDIY010: For IBM 5154 Enhanced Graphics Monitor with an Enhanced Graphics Adapter, using 640x350 resolution
- VDIYPGD: For IBM 5175 Professional Graphics Monitor with a Professional Graphics Adapter, using 640x480 resolution

Make sure you do not have a System/36 session active.

If your attachment programs are on disk, go to “Using CONFIG with a Disk-Based System” on page C-6 .

If your attachment programs are on diskette, continue with “Using CONFIG with a Diskette-Based System” on page C-5.

Using CONFIG with a Diskette-Based System

1. Make sure the following files are on the new WORKING PC CODE DSKT01. If any of the files are not on the diskette, copy the files from the new WORKING PC CODE DSKT04 to the new WORKING PC CODE DSKT01:
 - PCGRAPH.COM
 - PCVDI.EXE
 - GR5250.COM
2. Make sure the file MODE.COM is on the new WORKING PC CODE DSKT03. If it is not already on the diskette, copy the file from your DOS diskette to the new WORKING PC CODE DSKT03.
3. If you are using a device driver other than VDIDY010, use an editor to edit CONFIG.SYS on DSKT03 to specify the device driver you selected. Find the following statement in CONFIG.SYS:

```
DEVICE=A:VDIDY010.SYS /R
```

Change the name of the device driver to the one you selected. Change only the name of the driver; leave the rest of the command as it is.

4. Insert the new WORKING PC DSKT02 in the personal computer diskette drive A. On the DOS prompt, type the following:

```
CONFIG
```

Press the PC enter key. Go to “Responding to the CONFIG Procedure Displays” on page C-8.

Using CONFIG with a Disk-Based System

1. Make sure the file MODE.COM is in your root directory. If it is not already in the directory, copy the file from your DOS diskette to your root directory.

Note: If you have more than one disk drive, use the root directory of the drive that loads your system.

2. If the file CONFIG.SYS is in your root directory, continue with **step 3** in this topic.

If the file CONFIG.SYS is not in your root directory, copy the file from the S36 subdirectory. To copy the file, type the following on the DOS prompt:

```
COPY d:\S36\CONFIG.SYS d:\CONFIG.SYS
```

where d: is the letter of the drive. Press the PC enter key.

3. The following statements must be the first two statements in the CONFIG.SYS file in your root directory. Use an editor to add or edit the following statements to specify the device driver you selected.

```
DEVICE=d:\S36\VDIDYnnn.SYS /R
```

```
DEVICE=d:\S36\VDI.SYS /R
```

where:

d: Is the letter of the drive for the S36 subdirectory.

VDIDYnnn Is the name of the device driver you selected.

Change the name of the device driver (in the first command) to the one you selected.

4. If the file AUTOEXEC.BAT is in your root directory, go to the next step in this topic.

If the file AUTOEXEC.BAT is not in your root directory, copy the file from the S36 subdirectory. To copy the file, type the following on the DOS prompt:

```
COPY d:\S36\AUTOEXEC.BAT d:\AUTOEXEC.BAT
```

where d: is the letter of the drive. Press the PC enter key.

5. Make sure the following commands are the first two commands in the AUTOEXEC.BAT file in your root directory. If they are not, use an editor to add the following commands to the beginning of your AUTOEXEC.BAT file:

```
MODE CO80
```

```
d:\S36\INIT_VDI.EXE
```

where d: is the letter of the drive for the S36 subdirectory.

6. On the DOS prompt, type:

```
CD d: \S36
```

where d: is the letter of the drive for the S36 subdirectory. Press the PC enter key.

7. On the DOS prompt, type the following:

```
CONFIG
```

Press the PC enter key. Go to “Responding to the CONFIG Procedure Displays” on page C-8.

Responding to the CONFIG Procedure Displays

Help text is available during the CONFIG procedure.

1. When the IBM logo is displayed, press the PC enter key.
2. When the informational screen is displayed, read the information and press the PC enter key.
3. On the Set Number of Sessions display, type the number of emulated sessions (1 or 2) you want. Press the PC enter key.
4. On the Keyboard Customization File menu, type the number for the style of keyboard you want.

If you are using the Enhanced Keyboard, type 5. A prompt is shown for the name of the profile. Type `KBEP.C.PRO`.

Press the PC enter key.

If you selected one session, go to **step 6**. If you selected two sessions, continue with **step 5**.

5. On the Select Session 2 Type display, select the type of session you want to emulate for session 2. (Session 1 is always a display station session.) Type the number for the type of session you want and press the PC enter key.

If you selected 3 (*Display emulation*), go to **step 7** in this topic. If you selected 1 (*5256 printer emulation*) or 2 (*5219 printer emulation*), continue with step 6 in this topic.

6. On the Attached Printer List, type the number for the appropriate printer.

If you have an IBM 4202 Proprinter XL and you select option 3 (*IBM Proprinter*), the wide carriage function will print in condensed (15 CPI) mode.

*Note: If you do not want condensed mode, you should create a printer description table for the 4202 Printer. (Instructions for creating a printer description table are in Appendix B in the manual **Operating Your System**.) After you have created this table, select option 8 (**Table driven [user-defined] printer**); a prompt is displayed for the name of the table. Type the name of the table you created.*

Press the PC enter key. Continue with **step 7**.

7. On the Advanced Options menu, type 3 to select display emulation options and press the PC enter key.

8. On the Advanced Display Emulation Options display, type 5 to select the emulated display device and PC/5292-2 graphics, and press the PC enter key.
9. On the Emulated Display Device Options display, type 3 to select the 5292 Model 2 Color Graphics Display for the session you want. Press the PC enter key.
10. On the Advanced Display Emulated Options display, type 1 to save profile data. Press the PC enter key.
11. The Save Profile Data display shows the name for the file that will contain the profile data. Press the PC enter key.
12. The Advanced Display Emulated Options display gives you the options to quit or continue the configuration. Type 2 to quit and press the PC enter key.
13. **If your attachment programs are on a PC disk**, go to “Using the GCONFIG Procedure” on page C-10.

If your attachment programs are on PC diskettes, continue with the next step.

14. If your personal computer has two diskette drives, insert the new WORKING PC DSKT01 into PC diskette drive B.
15. Type the following:

```
COPY DP5250.DAT B:
```

where DP5250.DAT is the name of the file you saved in **step 11** in this topic. This file contains the profile data. Press the PC enter key. If your personal computer has one diskette drive, insert the new WORKING PC CODE DSKT01 into the PC diskette drive when the system prompts you for the diskette for drive B.

Go to “Using the GCONFIG Procedure” on page C-10.

Using the GCONFIG Procedure

If you want to change the options for host graphics support, you must use the GCONFIG procedure. You must use GCONFIG to change the graphics options if you want to use a plotter. You can change the options now, or after any IPL.

If you do not want to change the options for host graphics support at this time, return to the step you were doing in Chapter 2, "Installing the Release Update" on page 2-1.

If you want to use the GCONFIG procedure now, perform the following steps.

If your attachment programs are on a PC disk, go to "Using GCONFIG with a Disk-Based System" on page C-11 .

If your attachment programs are on PC diskettes, continue with "Using GCONFIG with a Diskette-Based System."

Using GCONFIG with a Diskette-Based System

1. Insert the new WORKING PC CODE DSKT03 into PC diskette drive A.
2. Press and hold the Alt and Ctrl keys, then press the Del key. DOS is reloaded.
3. When the system prompts you for the next diskette, insert the new WORKING PC CODE DSKT02 into PC diskette drive A. Press the PC enter key.
4. Display the DOS prompt. On the DOS prompt, type the following:

```
GCONFIG DP5250.DAT
```

where DP5250.DAT is the name of the file you created with the CONFIG procedure. This file contains the profile data. Press the PC enter key.

5. The program displays the emulation options so you can make your changes. Help text is available during the GCONFIG procedure. After you have made your changes, save your profile data and end the GCONFIG procedure.
6. If your personal computer has two diskette drives, insert the new WORKING PC CODE DSKT01 into PC diskette drive B.

7. Type the following:

```
COPY DP5250.DAT B:
```

where DP5250.DAT is the name of the file you created with the CONFIG procedure. This file contains the profile data. Press the PC enter key. If your personal computer has one diskette drive, insert the new WORKING PC CODE DSKT01 into the PC diskette drive when the system prompts you for the diskette for drive B.

8. Return to the step you were doing in Chapter 2, "Installing the Release Update" on page 2-1. Or, if you are updating from Release 3, and if you want to convert a Release 3 keyboard profile, go to "Converting the Keyboard Profile You Used in Release 3" on page C-12.

Using GCONFIG with a Disk-Based System

1. Use an editor to change the AUTOEXEC.BAT file in your root directory. Change the line that contains S36 to the following:

```
REM S36
```

2. Press and hold the Alt and Ctrl keys, then press the Del key. If a message is displayed, again press and hold the Alt and Ctrl keys, then press the Del key. DOS is reloaded.
3. Display the DOS prompt. On the DOS prompt, type the following:

```
GCONFIG DP5250.DAT
```

where DP5250.DAT is the name of the file that contains the profile data. Press the PC enter key.

4. The program displays the emulation options so you can make your changes. Help text is available during the GCONFIG procedure. After you have made your changes, end the GCONFIG procedure.
5. Use an editor to change the AUTOEXEC.BAT file in your root directory. Change the line that contains REM S36 to the following:

```
S36
```

6. Return to the step you were doing in Chapter 2, "Installing the Release Update." Or, if you are updating from Release 3, and if you want to convert a Release 3 keyboard profile, go to "Converting the Keyboard Profile You Used in Release 3" on page C-12.

Converting the Keyboard Profile You Used in Release 3

If you are updating from a release other than Release 3, you do not need to convert your keyboard profile.

If you are updating from Release 3, and if you customized your keyboard profile in Release 3, you can use this program to convert the profile and use it in this release. You can use the program to convert a profile stored on diskette or on disk.

Converting a Keyboard Profile on Diskette

1. Insert the Release 3 WORKING PC CODE DSKT01 (the diskette that contains the profile) into PC diskette drive A. If your personal computer has two diskette drives, insert the new WORKING PC CODE DSKT04 into PC diskette drive B.

Type the following:

```
COPY A:r03.pro B:
```

where `r03.pro` is the name of your Release 3 keyboard profile. Press the PC enter key.

The keyboard profile is copied to your new WORKING PC CODE DSKT04. If you have one diskette drive on your personal computer, insert your new WORKING PC CODE DSKT04 when prompted for the target diskette (represented by B).

2. Insert your new WORKING PC CODE DSKT04 into the PC diskette drive A.

3. On the DOS prompt, type the following:

```
CONVPRO
```

Press the PC enter key.

4. You will be prompted for the name of the Release 3 (Version 2.00) keyboard profile input file name. Type the name of the Release 3 keyboard profile and press the PC enter key.
5. You will be prompted for the name of the new (Version 2.10 or higher) keyboard profile output file name. Type the name of the new keyboard profile and press the PC enter key. *Use the same name as the Release 3 profile.*

6. The program converts the Release 3 profile to a profile you can use for this release, and writes the converted file on DSKT04. As the program converts the profile, it displays each line that is being converted and shows how it is being converted.
7. Make sure the new WORKING PC CODE DSKT04 is in PC diskette drive A. If your personal computer has two diskette drives, insert your new WORKING PC CODE DSKT01 into PC diskette drive B.

Type the following:

```
COPY A:new.pro B:new.pro
```

where new.pro is the name of your converted keyboard profile.

Press the PC enter key.

The keyboard profile is copied to your new WORKING PC CODE DSKT01. If you have one diskette drive on your personal computer, insert your new WORKING PC CODE DSKT01 when prompted for the target diskette (represented by B).

Return to the step you were doing in Chapter 2, "Installing the Release Update."

Converting a Keyboard Profile on Disk

1. Insert your new WORKING PC CODE DSKT04 into the PC diskette drive A.
2. On the DOS prompt, type CONVPRO and press the PC enter key.
3. You will be prompted for the name of the Release 3 (Version 2.00) keyboard profile input file name.

Type the following:

```
d:\S36R03\r03.pro
```

where:

d: Is the drive where the subdirectory is stored; for example, use C for drive C, or D for drive D.

S36R03 Is the name of your backup Release 3 subdirectory that contains the file.

r03.pro Is the name of your Release 3 keyboard profile.

Press the PC enter key.

4. You will be prompted for the name of the new (Version 2.10 or higher) keyboard profile output file name. Type the following:

```
d:\S36\new.pro
```

where:

d: Is the drive where the subdirectory is stored; for example, use C for drive C, or D for drive D.

S36 Is the name of your current subdirectory to contain the file.

new.pro Is the name of your new keyboard profile. *Do not use the same name as the Release 3 profile or the Release 3 profile will be lost.*

Press the PC enter key.

5. The program converts the Release 3 profile to a profile you can use for this release, and places the converted profile in your current S36 subdirectory. As the program converts the profile, it displays each line that is being converted and shows how it is being converted.
6. After the profile has been converted, rename the profile so it has the same name as the Release 3 profile.

Return to the step you were doing in Chapter 2, "Installing the Release Update."

Appendix D. Preparing Attachment Programs for a Non-U.S. English Keyboard

The System/36 attachment programs are loaded each time you use your System/36. These programs can be loaded from a PC diskette drive or from a PC disk drive.

If you plan to load the attachment programs from a diskette drive, follow the steps in the section “For a Diskette-Based System” on page D-2.

If you plan to load the attachment programs from a disk drive, follow the steps in the section “For a Disk-Based System” on page D-4.

For a Diskette-Based System

1. Insert the DOS diskette that was created by the DOS select command into PC diskette drive A. If your personal computer has two diskette drives, place the new WORKING PC CODE DSKT04 in diskette drive B.

If you are using DOS 3.3, go to **step 3**. If you are using a DOS version previous to 3.3, continue with **step 2**.

2. Type the following commands. Press the PC enter key after you type each command.

Note: If you have one diskette drive on your personal computer, the system will prompt you for diskettes during the following procedures. Use the new WORKING PC CODE DSKT04 when prompted to insert the diskette for drive B. Use the DOS diskette when prompted to insert the diskette for drive A.

- 2a. COPY A:CONFIG.SYS B:

- 2b. COPY A:KEYBnn.COM B:

where nn is the DOS country-specific keyboard code.

```
REN B:AUTOEXEC.BAT AUTOEXEC.TMP
```

```
COPY A:AUTOEXEC.BAT+B:AUTOEXEC.TMP B:AUTOEXEC.BAT
```

```
ERASE B:AUTOEXEC.TMP
```

- 2c. Replace DSKT04 with DSKT03.

- 2d. Type the following commands. Press the PC enter key after you type each command.

```
REN B:CONFIG.SYS CONFIG.TMP
```

```
COPY A:CONFIG.SYS+B:CONFIG.TMP B:CONFIG.SYS
```

```
ERASE B:CONFIG.TMP
```

- 2e. Repeat **step 2b**.

Go to **step 4**.

3. Type the following commands. Press the PC enter key after you type each command.

Note: If you have one diskette drive on your personal computer, the system will prompt you for diskettes during the following procedures. Use the new WORKING PC CODE DSKT04 when prompted to insert the diskette for drive B. Use the DOS diskette when prompted to insert the diskette for drive A.

- 3a. COPY A:CONFIG.SYS B:

- 3b. COPY A:COUNTRY.SYS B:

COPY A:KEYBOARD.SYS B:

COPY A:KEYB.COM B:

REN B:AUTOEXEC.BAT AUTOEXEC.TMP

COPY A:AUTOEXEC.BAT+B:AUTOEXEC.TMP B:AUTOEXEC.BAT

ERASE B:AUTOEXEC.TMP

- 3c. Replace DSKT04 with DSKT03.

- 3d. Type the following commands. Press the PC enter key after you type each command.

REN B:CONFIG.SYS CONFIG.TMP

COPY A:CONFIG.SYS+B:CONFIG.TMP B:CONFIG.SYS

ERASE B:CONFIG.TMP

- 3e. Repeat step 3b.

4. Return to **step 10** on page 2-11.

For a Disk-Based System

To load the System/36 attachment programs from a PC disk drive, you must copy the programs from the working PC CODE diskettes onto the PC disk drive.

When you copy the attachment programs to a PC disk drive, a backup subdirectory is automatically created, and your current S36 subdirectory is copied into it. The backup subdirectory is named S36Rnn, where nn is the release level. A new personal computer subdirectory named S36 is created and the files from the four working PC CODE diskettes are copied into it.

If you want the System/36 attachment programs automatically started when you power on the system, follow the steps in the section "A Disk-Based System with AUTOEXEC" on page D-5 .

If you do not want the System/36 attachment programs automatically started (you must enter S36 to load the programs), continue with "A Disk-Based System without AUTOEXEC."

A Disk-Based System without AUTOEXEC

1. Insert the new WORKING PC CODE DSKT01 into PC diskette drive A. If the default drive is not A, type A: and press the PC enter key.

2. Type the following:

```
S36SETUP A: d: /NA
```

and press the PC enter key.

d: Specifies the letter of the disk drive you want to receive the programs; for example, C for disk drive C, or D for disk drive D.

/NA Specifies that the system should not build a new AUTOEXEC.BAT file. This is the default.

3. When the copy is complete, remove the diskette from the diskette drive. Insert the next diskette as prompted, and press the PC enter key. Continue to insert the remaining diskettes as prompted. Press the PC enter key after you insert each diskette.
4. When all four diskettes are copied, the following message is displayed:

```
S36/PC Setup (Install) Complete.
```

The message is followed by the DOS prompt. Return to **step 10** on page 2-11.

A Disk-Based System with AUTOEXEC

1. Insert the new WORKING PC CODE DSKT01 into PC diskette drive A. If the default drive is not A, type A: and press the PC enter key.

2. Type the following:

```
COPY d:\AUTOEXEC.BAT AUTOEXEC.TMP
```

where:

d: Specifies the letter of the disk drive; for example, C for disk drive C, or D for disk drive D.

Press the PC enter key.

3. Type the following:

```
S36SETUP A: d: /A
```

Press the PC enter key.

d: Specifies the letter of the disk drive you want to copy the programs to; for example, C for disk drive C, or D for disk drive D.

/A Specifies that the system should build a new AUTOEXEC.BAT file. If you have an existing AUTOEXEC.BAT file, the existing file is copied into the backup subdirectory S36Rnn (where nn is the release level).

4. When the copy is complete, remove the diskette from the diskette drive. Insert the next diskette as prompted, and press the PC enter key. Continue to insert the remaining diskettes as prompted. Press the PC enter key after you insert each diskette.
5. When all four diskettes are copied, the following message is displayed:

```
S36/PC Setup (Install) Complete.
```

The message is followed by the DOS prompt.

6. Type the following:

```
REN d:\AUTOEXEC.BAT AUTOEXEC.S36
```

where:

d: Specifies the letter of the disk drive; for example, C for disk drive C, or D for disk drive D.

Press the PC enter key.

7. Type the following:

```
COPY d:\AUTOEXEC.TMP+d:\AUTOEXEC.S36 d:\AUTOEXEC.BAT
```

where:

d: Specifies the letter of the disk drive; for example, C for disk drive C, or D for disk drive D.

Press the PC enter key.

8. Type the following:

```
ERASE d:\AUTOEXEC.TMP
```

where:

d: Specifies the letter of the disk drive; for example, C for disk drive C, or D for disk drive D.

Press the PC enter key.

9. Type the following:

```
ERASE d:\AUTOEXEC.S36
```

where:

d: Specifies the letter of the disk drive; for example, C for disk drive C, or D for disk drive D.

Press the PC enter key. Return to **step 10** on page 2-11.

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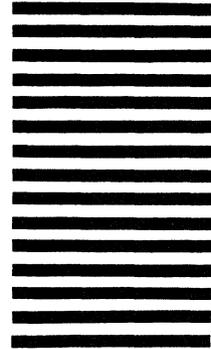
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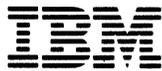
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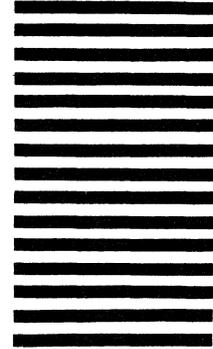
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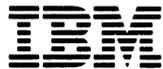
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