



1400 Series Upgrade Procedures

PROPRIETARY INFORMATION

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How To Use This Manual

HOW TO USE THIS MANUAL

The procedures in this document explain how to upgrade from your current Ultimate software to the latest software release. This document also includes instructions for those who are bringing up a new system.

These procedures involve your SYS-GEN tape or disk pack. The SYS-GEN is used to generate or reboot your Ultimate system.

Although the SYS-GEN tape can be used to generate or boot all Ultimate systems, this document is intended for Honeywell 1400 Series systems only. If you have any problems, contact the Ultimate Support Group.

The following topics are discussed in this manual:

- Section 1 describes BRINGING UP A VIRGIN SYSTEM. This section should be followed if your Ultimate system is new, and does not contain any software.
- Section 2 describes three methods of UPGRADING AN EXISTING SYSTEM. Read the introduction to this section to determine which method you should use. Then follow the appropriate procedure.
- Section 3 explains the procedure for FORMATTING A DISK DRIVE.
- Appendix A contains instructions for **BOOTING THE SYSTEM.** Refer to these instructions whenever you are asked to "boot or initialize the system."
- Appendix B contains a LIST OF ACCOUNTS ON THE SYS-GEN. This list may help you locate a particular account.

1 BRINGING UP A VIRGIN SYSTEM

If you are bringing up a new system, follow the instructions below to load the ULTIMATE system software onto your system. These instructions can only be performed from the line zero terminal (console).

1. Begin by formatting your disk drive(s). First, you must Power On to the system.

- A. Locate the main POWER switch on the back and turn to the ON position. If you have a dual-cabinet system, be sure to turn on both POWER switches.
- B. Make sure the AC PRESENT light is lit.
- C. If your system includes a 1/2" reel tape drive, turn the POWER switch on.
- 2. Boot the system. If you are rebooting a system that is up and running, you must first do a :WARMSTOP from the SYSPROG account.
 - A. Load the Ultimate SYS-GEN tape. (Refer to the tapeloading instructions in Section 4 of the Operations and Maintenance manual.)
 - B. If both the AC PRESENT and DC ON lights are on, press the RESET button. If only the AC PRESENT light is on, press the POWER ON button. The following screen will be displayed.

This is the Ultimate Operating System System Startup Options: (C)oldstart (D)iagnostic Monitor (F)ile Restore (W)armstart Enter option: C. Refer to Section 6 of the Operations and Maintenance

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manual for information on each of the System Startup Options.

- NOTE: If the system was :WARMSTOPPED prior to being powered off, refer to Section 6.7 of the Operations and Maintenance manual to WARMSTART the system. If the system was not :WARMSTOPPED prior to being powered off, then refer to Section 6.2 to COLDSTART the system.
 - 3. If your disk(s) are new or have disk errors, format your disk(s). Otherwise, proceed to the next step. Section 3.1 of this manual explains formatting procedures.
 - 4. If you formatted your disk(s), boot the system. The previous screen will be displayed.

If you did not format your disk, the previous screen should already be displayed.

At the prompt to select an option, enter F.

This initiates a complete File-Restore. You will be doing a complete file-restore with the SYS-GEN tape only!

Information about your disc configuration will be displayed. A sample screen is shown below.

Disc Configuration

chan set name # of FF20 Ultimate 1400 1 1 L 2000# time date ABS ULT REL XX Tape 0 attached Block size: 8192

In the next screen, you will be asked for your system serial number.

Tape 0 attached Block size: 8192

System serial # is presently

Enter system serial # or <CR> to accept

Enter your System Serial Number

(i.e., the "TN," "NE," "NB," or "BV" number of the system). For example, enter BV1234. If the correct serial number is shown, press RETURN to accept it.

The following screen is displayed.

Tape 0 attached Block size: 8192

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Press RETURN if the number is correct.

You may re-enter the correct number if you made a mistake. Press RETURN after you enter the correct number.

The following screen is displayed.

Tape 0 attached Block size: 8192 System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any:

Press RETURN.

Do not enter a number. (Your SYS-GEN tape should already be mounted.) The following screen is displayed.

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Mount ABS tape and enter number of files to skip, if any:

XX-XXX XXXX-XXX XXXX-XXX XXXX-XXX XXXX-XXX

Spooler started

Mount DATA tape and press RETURN

WARNING: Do not mount your File-Save tape. Your SYS-GEN tape should already be mounted.

Press RETURN.

The following screen is displayed.

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Mount ABS tape and enter number of files to skip, if any:	
XX-XXX XXXX-XXX XXXX-XXX XXXX-XXX XXXX-XXX	
Spooler started Mount DATA tape and press RETURN L 2000# time date DATA SYS-GEN Seq# of this data tape: 0 0 0 0 Is this the right tape (Y/N)?	

Enter Y and press RETURN.

The File-Restore will begin. Each filename on the tape will be listed on your screen. When all files have been restored, the following screen is displayed.

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Update/transaction tapes (Y/N)?

Enter N and press RETURN.

The following screen is displayed.

Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0 date time Logon Please: <<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>> This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

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Enter the time in military format (HH:MM:SS).

For example, enter 5PM as 17:00:00. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

> The system will display several messages. If there are any error messages (i.e.: System does not verify), <u>call</u> the Ultimate Support Group immediately.

The following screen will be displayed.

date time Logon please:

- 5. Load the WP (UltiWord), ULTILINK, ATP, and ULTIMATION accounts.
 - A. Logon to your SYSPROG account.
 - B. Mount your SYS-GEN tape. Make sure it is at load point and on-line.
 - C. From the SYSPROG main menu, select "Load WP account from SYS-GEN tape." The program will search for and load the WP account from the SYS-GEN tape.
 - D. When the WP account has been loaded, type **SYSPROG** and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTILINK account from SYS-GEN

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tape." The program will search for and load the ULTILINK account from the SYS-GEN tape.

- E. When the ULTILINK account has been loaded, type SYSPROG and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ATP account from SYS-GEN tape." The program will search for and load the ATP account from the SYS-GEN tape.
- F. When the ATP account has been loaded, type SYSPROG and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTIMATION account from SYS-GEN tape." The program will search for and load the ULTIMATION account from the SYS-GEN tape.
- 6. Create a duplicate SYS-GEN.

Ultimate recommends that you create one or more copies of the SYS-GEN for backup, in case your original SYS-GEN is missing or contains errors.

- A. Remove the SYS-GEN, and mount a write-enabled blank tape (or spare formatted disk pack) to be used for the duplicate SYS-GEN.
- B. At TCL in the SYSPROG account, type:

SYS-GEN and press RETURN.

The duplicate copy of the SYS-GEN will be created. When the duplicate is complete, unload the duplicate SYS-GEN, label it, and store it in a safe place. Repeat Steps a and b to make as many copies of the SYS-GEN as you prefer.

7. You may now begin to load your application software.

2 UPGRADING AN EXISTING SYSTEM

Use one of the following three upgrade methods:

1. FILE-RESTORE FROM SYS-GEN TAPE METHOD

2. FILE-RESTORE FROM FILE-SAVE TAPE METHOD

This method requires that you be on Rev 185 or higher.

3. SELECTIVE UPGRADE METHOD

This method requires that you be on Rev 185 or higher.

FROM RELEASE	TO RELEASE	USE METHOD
prior to Rev 185	Any 185	1
Any 185	Any 185	1, 2, or 3

2.1 Method 1: The File-Restore From SYS-GEN Tape Method

1. Do a complete File-Save of the system.

You'll need the File-Save to restore your own accounts later in the upgrade. Follow the instructions in the <u>Operations and Maintenance Guide</u> to do a File-Save.

2. Make sure everyone is logged off the system. Then log on to the SYSPROG account. At TCL, enter:

:WARMSTOP and press RETURN.

The Warmstop procedure brings your system down in a controlled manner, ensuring that the integrity of your data is preserved.

Ignore messages displayed by the :WARMSTOP verb.

- 3. Mount the SYS-GEN tape, and bring to load point.
- 4. Boot the system.
- 5. If your disk(s) are new or have disk errors, format your disk(s). Section 3.1 of this manual explains formatting procedures.
- 6. If you formatted your disk, boot the system. The following screen will be displayed. If you did not format your disk, the following screen should already be displayed.

This is the Ultimate Operating System

System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart

Enter Option(s) or ? for help:

Enter F

This initiates a complete File Restore. You will be doing a complete file-restore with the SYS-GEN tape only!

Information about your disc configuration will be displayed. A sample screen is shown following.

Disc Configuration chan set name # of 0400 123 TEST 2 2 L 2000# time date ABS ULT REL XX

Tape 0 attached Block size: 8192

In the next screen, you will be asked for your system serial number.

Tape 0 attached Block size: 8192

System serial # is presently

Enter system serial # or <CR> to accept

Enter your System Serial Number

(i.e., the "TN," "NE," "NB," or "BV" number of the system). For example, enter BV1234. If the correct serial number is shown, press RETURN to accept it.

The following screen is displayed.

Tape 0 attached Block size: 8192 System serial # is presently BVxxxx Enter system serial # or <CR> to accept Press RETURN if the number is correct. You may re-enter the correct number if you made a mistake. Press RETURN after you enter the correct number. The following screen is displayed. Tape 0 attached Block size: 8192 System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any:

Press RETURN.

Do not enter a number. Your SYS-GEN tape should already be mounted. The following screen is displayed.

System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any: XX-XXX XXX-XXX XXX-XXX XXX-XXX XXX-XXX XXX-XXX Spooler started Mount DATA tape and press RETURN

WARNING: Do not mount your File-Save tape. (Your SYS-GEN tape should already be mounted.)

Press RETURN.

The following screen is displayed.

Mount ABS tape and enter number of files to skip, if any: XX-XXX XXXX--XXX XXXX-XXX XXXX-XXX XXXX-XXXX Spooler started Mount DATA tape and press RETURN L 2000# time date DATA SYS-GEN Seq# of this data tape: 0 0 0 0 Is this the right tape (Y/N)? _____ Enter Y and press RETURN. The File-Restore will begin. Each filename on the tape will be listed on your screen. When all files have been restored, the following screen is displayed. Update/transaction tapes (Y/N)? Enter N and press RETURN. The following screen is displayed.

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Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0

date time Logon Please:

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>>

This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

date time Logon Please:

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>>

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This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time =

Enter the time in military format (HH:MM:SS).

For example, enter 5PM as 17:00:00. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

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This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

The system will display several messages. If there are any error messages (i.e.: System does not verify), call the Ultimate Support Group immediately.

The following screen will be displayed.

date time Logon please:

- 7. Load the WP (UltiWord), ULTILINK, ATP, and ULTIMATION accounts. These steps necessary so that you may create a duplicate SYS-GEN, in Step 8 below.
 - a. Logon to your SYSPROG account.
 - b. Mount your SYS-GEN tape. Make sure it is at load point and on-line.
 - c. From the SYSPROG main menu, select "Load WP account from SYS-GEN tape." The program will search for and load the WP account from the SYS-GEN tape.

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- d. When the WP account has been loaded, type **SYSPROG** and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTILINK account from SYS-GEN tape." The program will search for and load the ULTILINK account from the SYS-GEN tape.
- e. When the ULTILINK account has been loaded, type SYSPROG and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ATP account from SYS-GEN tape." The program will search for and load the ATP account from the SYS-GEN tape.
- f. When the ATP account has been loaded, type SYSPROG and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTIMATION account from SYS-GEN tape." The program will search for and load the ULTIMATION account from the SYS-GEN tape.
- 8. Create a duplicate SYS-GEN. Ultimate recommends that you create one or more copies for backup, in case your original SYS-GEN is missing or contains errors.
 - a. Remove the SYS-GEN, and load a write-enabled blank tape (or spare formatted disk pack).
 - b. AT TCL on the SYSPROG account, type:

SYS-GEN and press RETURN.

When the duplicate SYS-GEN is complete, unload the tape or disk. Remove the duplicate SYS-GEN, label it, and store it in a safe place. Repeat this step to make as many copies as you prefer.

IMPORTANT: No application work should be done until the following steps have been completed.

9. If you were using UltiWord (the WP account) and ULTIMATION before the upgrade, then you must delete the WP and ULTIMATION accounts you loaded in Step 7. The WP account you loaded in Step 7 does not contain your WP user names or documents, and the ULTIMATION account you loaded in Step 7 does not contain your user codes and other setup information. You must use the DELETE-ACCOUNT command to delete the WP and ULTIMATION accounts now. (See the System Commands Guide for instructions on using the DELETE-ACCOUNT command. This command must be issued from the SYSPROG account.) You will be instructed to restore your original WP and ULTIMATION accounts in a later step. (Do not delete the ULTILINK or ATP accounts.)

If you were not using WP or ULTIMATION before the upgrade, you do not have to delete these two accounts now.

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- 10. You are now ready to restore your own accounts. If you were using ULTIMATION before this upgrade, you will restore the ULTIMATION account in this step.
 - a. Logon to the SYSPROG account and go to TCL.
 - b. If you are upgrading from Rev 123 or later, type:

T-ATT and press RETURN.

If you are upgrading from a release prior to Rev 123, type:

T-ATT (O and press RETURN.

This indicates that you are restoring from an "old" style tape.

c. Mount the first reel of your File-Save from Step 1. Bring it to load point and on-line.

There are two methods to use in restoring your accounts. These are by using either the ACCOUNT-RESTORE verb or the ALL-ACCOUNT-RESTORE verb. The ALL-ACCOUNT-RESTORE will not work if your FILE-SAVE was not made from the FILE-SAVE proc supplied by The Ultimate Corp. If it was made from other sources, you must use the ACCOUNT-RESTORE verb.

If using the ALL-ACCOUNT-RESTORE method, proceed to Step d. If using the ACCOUNT-RESTORE method, proceed to Step e.

d. ALL-ACCOUNT-RESTORE method: Type:

RUN DICT SYSPROG-PL ALL-ACCOUNT-RESTORE

and press RETURN.

This program will restore all application accounts not already on the system, including the ULTIMATION account. When completed, go to Step 11. (Note that you cannot use update/transaction tapes with this method.)

e. ACCOUNT-RESTORE method: Type:

ACCOUNT-RESTORE accountname and press RETURN.

Use this command to individually restore all application accounts not on the system. Follow this procedure for each account you are restoring. Make

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sure you use this procedure to restore the ULTIMATION account, if you were using it before the upgrade.

- 11. Make sure you are logged on to the SYSPROG account and at TCL.
- 12. Type:

RUN DICT SYSPROG-PL UPG.NEWAC and press RETURN.

This program will display names of all application accounts to be upgraded. When all names are displayed, you will then be prompted with:

(C)ontinue or (Q)uit?

Enter C.

This program will upgrade the Master Dictionary of each application account displayed.

13. Load UltiWord (the WP account).

If UltiWord was not on your system before the upgrade, and you loaded it in Step 7, then go to Step 16.

If you were using WP prior to upgrading to this release, and you were:

Previously on Rev 110x, go to step a.

Previously on Rev120x, 121x, or 122x, logon to the WP account, go to TCL, and go to Step c.

Previously on Rev 123x, 124x, 125x, 130x, 135x, 140x, 150x, 160x, or 170x or later, go to Step 14.

a. Logon to the WP account and go to TCL.

b. Type:

CREATE-FILE DATA WP-PROGS, TABLES 3,1

and press RETURN.

c. Type:

CREATE-FILE DATA WP-PROGS, USER 31,1

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and press RETURN.

d. Make sure the SYS-GEN is at load point and on-line.

e. Logon to the SYSPROG account and go to TCL.

f. Type:

UPG-WP and press RETURN.

This program will load the new WP from the SYS-GEN tape.

g. Logon to WP.

The Conversion program will be called up automatically. The following screen will be displayed.

DO YOU WANT TO CONTINUE WITH THE CONVERSION (Y/N):

Enter Y

to initiate the conversion.

h. Go to Step 15.

14. Upgrade the WP account.

Do this step only if you are upgrading from Rev123x, 124x, 125x, 130x, 135x, 140x, 150x, 160x, or 170x or later

a. Make sure the SYS-GEN is at load point and on-line.

b. Make sure you are logged on to the SYSPROG account and at TCL.

c. Type:

UPG-WP and press RETURN.

This program will load the new WP from the SYS-GEN.

15. Enable WP in user accounts.

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Logon to the WP account.

The Word Processor Main Menu will be displayed, as shown following.

The Ultimate Corp. **** **** ***** WORD PROCESSING **** **** Document Manager ***** Main Menu YOUR USER NAME: DOCUMENT NAME: (C)opy documents (D)elete user (E)dit/Enter (L)ist (N)ew (P)rint (S)et up user account (U)tility (V)iew e(X)it Enter option wanted:

Enter S.

This selects the program to set up user accounts. The following screen is displayed.

***** The Ultimate Corp. *****
***** WORD PROCESSING *****
***** Document Manager *****
Set up USER WP Menu
YOUR USER NAME:
DOCUMENT NAME:
Enter name of account to set up or <EDIT>

Enter the user account name you wish upgraded, and press RETURN.

The following screen is displayed.

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**** The Ultimate Corp. **** WORD PROCESSING **** **** ***** Document Manager **** Set up USER WP Menu YOUR USER NAME: DOCUMENT NAME: Enter name of account to set up or <EDIT> The master dictionary of XXXX contains the following These will be overwritten if Y is answered. (Y)es or <EDIT>

Enter Y.

You will now be able to use WP from this account. The program will update all necessary verbs and Q-pointers for the Ultimate Word Processor. Repeat these steps for each account on which you have WP. When complete, go to Step 16.

- NOTE: If you get an error message such as "D/CC/CL Pointer Update Rejected," call the Ultimate Support Group.
- 16. Load in any utilities of your own that you may store in the SYSPROG account.
- 17. If you are upgrading from a release <u>prior</u> to Rev 130 and you use the DICT ACC for Logon purposes (ie: setting baud rate, terminal type), you will have to do a selective restore of the DICT ACC from your File-Save. Follow the steps below.

a. Mount your File-Save and bring it to load point.

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b. Logon to SYSPROG and go to TCL.

c. Type:

SEL-RESTORE DICT ACC * (0 and press RETURN.

The following screen is displayed.

>SEL-RESTORE DICT ACC * (O

Account name on tape:

Type:

ACC and press RETURN.

The following screen is displayed.

>SEL-RESTORE DICT ACC * (O Account name on tape: ACC File name:

Type:

DICT ACC and press RETURN.

The selective-restore will begin.

d. After the selective-restore has been completed, type: RUN DICT SYSPROG-PL ACCCONV and press RETURN.

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This program will convert all item IDs in the DICT ACC from a length of two to three.

- 18. If you are upgrading to Revision 180 or later, and if you store your own items in the TERMDEF file, then you must restore that file from your last file-save. Otherwise, the TERMDEF file will be recopied from the SYS-GEN, and the extra items you added to the file will not be present. Follow the steps below.
 - a. Mount your File-Save and bring it to load point and on-line.

- b. Logon to SYSPROG and press RETURN to go to TCL.
- c. Type:

SEL-RESTORE TERMDEF * and press RETURN.

The following screen is displayed.

>SEL-RESTORE TERMDEF *

Account name on tape:

Type:

SYSPROG and press RETURN.

The following screen is displayed.

>SEL-RESTORE TERMDEF *

Account name on tape: SYSPROG

File name:

Type:

TERMDEF and press RETURN.

The selective-restore will begin.

When the selective-restore has completed, unload the File-Save tape and store it in a safe place.

19. Mount the SYS-GEN tape, and bring it to load point and on-line. Then log on to the SYSPROG account. At TCL, type:

UPG-REV and press RETURN.

A list of filenames will appear on your screen. Then the following message will appear.

If last file name displayed is 'DICT MD', Enter return

Else enter 'ABORT'

Press RETURN if the last filename displayed is DICT MD.

If the last filename displayed is not DICT MD, enter ABORT. You will return to TCL. <u>Do not proceed.</u> Call the Ultimate Support Group.

The following message will appear.

If last file name displayed is 'ULTINET MD', Enter return

Else enter 'END'

Press RETURN if the last filename displayed is ULTINET MD.

20. Restore your system Q-pointers. If you have any Q-pointers on your system, you must selectively-restore them from your file-save tape. System Q-pointers are normally stored at the end of the file-save, so if you have a multiple-reel file-save, the Q-pointers will be stored on the last reel. You must begin the sel-restore from reel 1 of your file-save. Then you will be instructed below to remove reel 1 and mount the last reel. Follow the steps below.

a. Mount reel #1 of your File-Save and bring it to load

point and on-line.

b. Logon to SYSPROG and press RETURN to go to TCL.

c. Type:

SEL-RESTORE SYSTEM * (N) and press RETURN.

The N option specifies that the file should be identified by its number, not by its name. The following screen is displayed.

>SEL-RESTORE SYSTEM * (N)

File #:

Type:

1 and press RETURN.

The selective-restore will begin. On your terminal, you should see the following.

1 SYSTEM

Then the tape will begin moving forward. At this point, press the BREAK key to interrupt the sel-restore. Then rewind and unload the first reel of the file-save, and load the last reel of your file-save. Once that reel is on-line, on the terminal type **G** and press RETURN to resume the sel-restore. Your system Q-pointers will be restored.

When the selective-restore has completed, unload the File-Save tape and store it in a safe place.

21. Reload UltiCalc.

If you were using UltiCalc before the upgrade, you must re-install UltiCalc. To do so, log on to the ULTICALC account. At the UltiCalc menu, enter I to select Install UltiCalc on the system.

If you were not using UltiCalc before the upgrade, then go on to Step 22.

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22. The upgrade is now complete. You may now logon and begin your normal work. Keep the File-Save from Step 1 from your previous release for future reference.

2.2 Method 2: The File-Restore From File-Save Tape Method

This method can be used if you are upgrading Rev 185 or later. NOTE: All users must be off the system until the upgrade is complete.

1. Do a complete File-Save of the system.

You'll need the File-Save to restore your own accounts later in the upgrade. Follow the instructions in the Operations and Maintenance Guide to do a File-Save.

2. Make sure everyone is logged off the system. Then logto the SYSPROG account. At TCL, enter:

:WARMSTOP and press RETURN.

The Warmstop procedure brings your system down in a controlled manner, ensuring that the integrity of your data is preserved.

Ignore messages displayed by the :WARMSTOP verb.

- 3. Mount the SYS-GEN tape, and bring it to load point.
- 4. Boot the system (see Appendix A for instructions). The following screen is displayed.
- 5. If your disk(s) are new or have disk errors, format your disk(s). Section 3.1 of this manual explains the formatting process.
- 6. If you formatted your disk, boot the system (see instructions in Appendix A.) The following screen will be displayed. If you did not format your disk, the following screen should already be displayed.

This is the Ultimate Operating System System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart Enter Option(s) or ? for help:

Enter F

This initiates a complete File-Restore.

Information about your disc configuration will be displayed. A sample screen is shown below.

Disc Configuration

chan set name# of0400123 TEST1L2000# timedateABSULTREL

Tape 0 attached Block size: 8192

In the next screen, you will be asked for your system serial number.

Tape 0 attached Block size: 8192 System serial # is presently

Enter system serial # or <CR> to accept

Enter your System Serial Number

(i.e., the "TN," "NE," "NB," or "BV" number of the system). For example, enter <u>BV1234</u>. If the present serial number is shown, and is correct, press RETURN to accept it.

The screen shown below is displayed.

Tape 0 attached Block size: 8192

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Press RETURN if the number is correct.

You may re-enter the correct number if you made a mistake. Press RETURN after you enter the correct number.

The following screen is displayed.

Tape 0 attached Block size: 8192 System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any: Press RETURN. Do not enter a number. Your SYS-GEN tape should already be mounted. The following screen is displayed. System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any: XX-XXX XXXX-XXX XXXX-XXX XXXX-XXX XXXX-XXXX Spooler started Mount DATA tape and press RETURN Unload the SYS-GEN tape. Then mount the first reel (or pack) of the File-Save tape (or disk) and bring it to load point. Press RETURN.

If you have a multi-reel File-Save, you will be prompted at the end of each reel to mount the next

Upgrade Procedures

one.

The following screen is displayed.

Mount ABS tape and enter number of files to skip, if any: XX-XXX XXXX-XXX XXXX-XXX XXXX-XXX XXXX-XXX Spooler started Mount DATA tape and press RETURN L 2000# time date DATA Seq# of this data tape: 0 0 0 0 Is this the right tape (Y/N)?

Check the tape label displayed to verify that this is your most recent File-Save tape (or disk).

Enter Y and press RETURN.

The File-Restore will begin. Each filename on the tape will be listed on your screen. When all files have been restored, the following screen is displayed.

Update/transaction tapes (Y/N)?

Enter N and press RETURN.

The following screen is displayed.

Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0

date time Logon Please:

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XX date >>> This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

Enter the time in military format (HH:MM:SS).

Upgrade Procedures

For example, enter 5PM as 17:00:00. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

The system will display several messages. One error Upgrade Procedures Page 2 - 28

message, "Ultimate Operating System does not Verify," $\underline{is} to \underline{be} expected$ at this time. The system will verify when the upgrade is complete.

The following screen will be displayed.

date time Logon please:

IMPORTANT: No Application work should be done until the following steps have been completed.

7. Logon to the SYSPROG account and go to TCL.

8. Mount the SYS-GEN, bring to load point and put on-line.

9. Upgrade the Master Dictionary of SYSPROG. Type:

T-SPACE 19 and press RETURN.

WARNING: This will skip 19 files on tape. The names of the files will be displayed on the screen. If the last file listed is not the "STAT-FILE," do not proceed. Call the Ultimate Support Group.

10. Type:

T-LOAD MD (O,I) and press RETURN.

11. Upgrade files in the SYSPROG, WP, and ULTINET accounts.

- a. Make sure the SYS-GEN is at load point and on-line.
- b. Make sure you are logged on to the SYSPROG account and at TCL.

c. Type:

UPG-REV and press RETURN.

The following message is displayed.

Upgrade Procedures

If last file name displayed is 'DICT MD', Enter return Else enter 'ABORT'

Press RETURN if the last filename displayed is "DICT MD."

If the last file name displayed is <u>not</u> "DICT MD," enter **ABORT.** You will return to TCL. <u>Do Not Proceed</u>. Call the Ultimate Support Group.

Once you press RETURN, the files to be upgraded will be loaded in the SYSPROG and WP accounts. If your system includes UltiNet, the following message will appear.

If last file name displayed is 'ULTINET MD', Enter return

Else enter 'END'

.

Press RETURN if the last filename displayed is ULTINET MD.

Your ULTINET account will be upgraded.

12. Make sure you are logged on to the SYSPROG account and at TCL.

13. Type:

RUN DICT SYSPROG-PL UPG.NEWAC and press RETURN.

The program will display names of all application accounts to be upgraded. The following message is displayed.

(C)ontinue or (Q)uit?

_ _ _ _ _ _ _ _ _ _ _

Upgrade Procedures

Enter C

The system will now upgrade the Master Dictionary of each user account displayed.

14. Check to see if the system verifies. From the SYSPROG account, go to TCL.

Type:

VERIFY-SYSTEM and press RETURN.

The system should now verify. If there is any mismatch, call the Ultimate Support Group.

15. Reload ULTICALC.

If you were using UltiCalc before the upgrade, you must re-install it. To do so, log on to the ULTICALC account. At the UltiCalc menu, enter I to select Install UltiCalc on the system.

16. Create a Boot tape.

A boot tape contains only the programs needed to boot your system. A SYS-GEN contains the programs to boot your system, and it also contains system accounts and system files. Ultimate recommends that you create a boot tape now, and that you create a duplicate SYS-GEN at the time of your next File-Restore.

Follow the instructions in the System Commands Guide and the System Management and Support Guide to create a boot tape and a duplicate SYS-GEN tape.

17. The upgrade is now complete. You may logon and begin your normal work. Keep the File-Save from Step 1 from your previous release for future reference.

2.3 Method 3: The Selective Upgrade Method

This method can be used if you are upgrading from Rev 185AX or later.

NOTE: All users must be off the system until the upgrade is complete.

1. Make sure everyone is logged off the system. Do a <u>complete</u> File-Save of the system.

This step is important in ensuring that you'll be able to recover your files in the event of a mishap during the upgrade. Ultimate strongly recommends that you take the time to do this now. Otherwise, you may spend hours trying to recover your files later, in the event of a problem.

2. Logon to the SYSPROG account and go to TCL.

Type:

CLEAR-FILE DATA UFOS and press RETURN.

The "UFOS" file must be cleared to ensure that old patches will not be applied to the new system.

3. You should still be in the SYSPROG account. At TCL, type:

:WARMSTOP and press RETURN.

The Warmstop procedure brings your system down in a controlled manner, ensuring that the integrity of your data is preserved.

Ignore messages displayed by the :WARMSTOP verb.

- 4. Mount the SYS-GEN tape (or disk) and bring it to load point.
- 5. Boot the system (see instructions in Appendix A).

The following screen is displayed.

This is the Ultimate Operating System System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart Enter Option(s) or ? for help:

Enter C

This initiates a Cold-Start.

In the next screen, you will be asked for your system serial number.

System serial # is presently

Enter system serial # or <CR> to accept

Enter your System Serial Number

(i.e., the "TN," "NE," "NB," or "BV" number of the system). For example, enter BV1234. If the correct serial number is shown, press RETURN to accept it.

The screen shown below is displayed.

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Upgrade Procedures

The system will re-display the number. Press RETURN if the number is correct. You may re-enter the correct number if you made a mistake. Press RETURN after you enter the correct number.

The following screen is displayed.

System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any:

Press RETURN.

Do not enter a number. Your SYS-GEN tape should already be loaded. The following screen is displayed.

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XX date >>>

This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

Enter the time in military format (HH:MM:SS).

For example, enter 5PM as 17:00:00. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized 08:06:42 24 AUG 1986 Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

The system will display several messages. One error message, "Ultimate Operating System does not Verify," <u>is to be expected</u> at this time. The system will verify when the upgrade is complete.

Upgrade Procedures

The following screen will be displayed.

date time Logon please:

IMPORTANT: No Application work should be done until the following steps have been completed.

6. Logon to the SYSPROG account and go to TCL.

7. Bring the SYS-GEN to load point and on-line.

8. Type:

T-SPACE 19 and press RETURN.

WARNING: This will skip 19 files on tape. The names of the files will be displayed on the screen. The last file skipped should be "STAT-FILE." If the last file is not "STAT-FILE," <u>do not</u> proceed. Call the Ultimate Support Group.

9. At TCL, type:

T-LOAD MD (O,I) and press RETURN.

10. Upgrade files in the SYSPROG, WP, and ULTINET accounts.

a. Make sure the SYS-GEN is at load point and on-line.

b. Make sure you are logged on to the SYSPROG account and at TCL.

c. Type:

UPG-REV and press RETURN.

d. Several filenames will be listed. Then the following message is displayed:

Upgrade Procedures

If last file name displayed is 'DICT MD' Enter return Else enter 'ABORT'

Press RETURN if the last filename displayed is "DICT MD."

If the last file name displayed is <u>not</u> "DICT MD," enter ABORT. You will return to TCL. <u>Do Not Proceed</u>. Call the Ultimate Support Group.

Once you press RETURN, the files to be upgraded will be loaded in the SYSPROG and WP accounts. If your system includes UltiNet, the following message will appear.

If last file name displayed is 'ULTINET MD', Enter return

Else enter 'END'

Press RETURN if the last filename displayed is ULTINET MD.

Your ULTINET account will be upgraded.

11. At TCL, type:

RUN DICT SYSPROG-PL UPG.NEWAC and press RETURN.

The program will display names of all application accounts to be upgraded. The following message is displayed.

(C)ontinue or (Q)uit?

Enter C

The system will now upgrade the Master Dictionary of each user account.

12. Check to see if the system verifies. From the SYSPROG account, go to TCL.

Type:

VERIFY-SYSTEM and press RETURN.

The system should now verify. If there is any mismatch, call the Ultimate Support Group.

13. Remove the SYS-GEN tape from your system.

14. Create a Boot tape.

A boot tape contains only the programs needed to boot your system. A SYS-GEN contains the programs to boot your system, and it also contains system accounts and system files. Ultimate recommends that you create a boot tape now, and that you create a duplicate SYS-GEN at the time of your next File-Restore.

Follow the instructions in the System Commands Guide and the System Management and Support Guide to create a boot tape and a duplicate SYS-GEN tape.

15. The upgrade is now complete. You may logon and begin your normal work. Keep the File-Save from Step 1 from your previous release for future reference.

Ultimate recommends that a File-Save and Full-Restore be done as soon as possible.

Diagnostics Monitor

3 FORMATTING A DISK DRIVE

The Diagnostics Monitor is run off-line. This means that you are not able to run your system in the normal mode. Only line zero is activated. The Ultimate Diagnostics Monitor has two modes of operation:

1. Formatting 2. Maintenance

This document will only discuss the option for formatting your disk (consult the Diagnostics Monitor Manual for more detailed information).

- 1. Make sure you've followed the Booting instructions in Section 5.
- 2. At the System Startup Options menu, enter D.

This will load the Diagnostics Monitor. The following screen will be displayed.

ST506 disc sub-system Format and disc diagnostic utility

(F)ormat a drive (B)ad sector map read (R)ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger module (E)xit to options menu

Select option:

Enter F

The following screen is displayed.

ST506 disc sub-system Format and disc diagnostic utility (F)ormat a drive (B)ad sector map read (R)ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger module (E) xit to options menu Select option: F Enter drive number (0-2)______ Enter the number of the drive (0, 1, or 2) that you want to format. The following screen is displayed. ST506 disc sub-system Format and disc diagnostic utility (F)ormat a drive (B)ad sector map read (R)ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger module (E) xit to options menu Select option: F Enter drive number (0-2).. 0 Enter (Y)es to continue

Type Y to continue the formatting process. This will destroy all previous data on the disc.

Upgrade Procedures

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Diagnostics Monitor

The following screen is displayed.

ST506 disc sub-system Format and disc diagnostic utility

(F)ormat a drive (B)ad sector map read (R)ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger module (E)xit to options menu

Select option: F

Enter drive number (0-2).. 0 Enter (Y)es to continue... Y Use bad sector map (Y/N)

Enter:

Y to make sure previous bad tracks are marked defective N if you don't want to save previously marked bad tracks

CAUTION: If you are formatting a <u>new</u> drive, you must enter **N** at this prompt. Then, at any time in the future when formatting the drive, you may enter **Y**.

The following screen is displayed.

```
ST506 disc sub-system
Format and disc diagnostic utility
  (F)ormat a drive
  (B)ad sector map read
  (R)ead disc parameters (vtoc)
 (W)rite disc parameters (vtoc)
  (D)rive diagnostics menu
  (S)ystem debugger module
  (E) xit to options menu
Select option: F
Enter drive number (0-2).. 0
Enter (Y)es to continue... Y
Use bad sector map (Y/N).. N
  Verifying
cyl:xxxx trk:xx
  Writing map
  Writing VTOC
```

Once these messages have been displayed, then the formatting process is complete.

Upgrade Procedures

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Booting the System

APPENDIX A: BOOTING THE SYSTEM

Throughout this manual, you will be asked to "boot" or "initialize the system." The following steps describe the procedure.

- 1. Make sure the AC PRESENT light is ON. (Refer to the POWERING ON instructions in Section 2.)
 - 2. Load the Ultimate SYS-GEN tape. (Refer to the tape loading instructions in Section 4.)
 - 3. If both the AC PRESENT and DC ON lights are on, press the RESET button. If only the AC PRESENT light is on, press the POWER ON button. The following screen will be displayed.

This is the Ultimate Operating System

System Startup Options:

(C)oldstart (D)iagnostic Monitor (F)ile Restore (W)armstart

Enter Option:

- 4. Refer to Section 6 for information on each of the System Startup Options.
- NOTE: If the system was :WARMSTOPPED prior to being powered off, refer to Section 6.7 to WARMSTART the system. If the system was not :WARMSTOPPED prior to being powered off, then refer to Section 6.2 to COLDSTART the system.

APPENDIX B: LIST OF ACCOUNTS ON THE SYS-GEN

The general format of the SYS-GEN tape is as follows:

SYSTEM BOOT 1 SYSTEM BOOT 2 COLD LOAD ABS LOAD FILE DATA (including the following accounts:) SYSTEM SYSTEM-ERRORS BLOCK-CONVERT SECURITY PROCLIB SYSLIB SYSTEM (Synonym) SYSPROG ERRMSG SPSYM GAMES TRAINING ACC SYSTEM (Q-pointers, etc.) T-DUMP of STAT-FILE

Several files are T-DUMPed at the end of the SYS-GEN tape. These files are used for the selective upgrade method, and for updating the WP, ATP, ULTILINK, and ULTIMATION accounts. To position the tape at the first file, do 19 T-FWDs from load point. The files are dumped as follows.

> SYSPROG MD DICT NEWAC ERRMSG DICT SYSLIB SYSLIB DICT TERMDEF TERMDEF CONVERSION, DOC CONVERSION, PGM CONVERSION, PROC CONVERSION, TABLE OSYM PSYM DICT STAT-FILE DICT BLOCK-CONVERT USER-MODES USER-MODES, SOURCE DICT SYSPROG-PL DICT ACC DICT SYS-ERRS DICT DOCUMENT DOCUMENT

DOCUMENT, SYSTEM DICT UFOS UFOS DICT REALLOC-FILE WP Master Dictionary DICT WP-PROGS WP-PROGS, TABLES DICT SPSYM SPSYM SPSYM, DF account-save of WP account-save of ATP account-save of ULTILINK account-save of ULTIMATION ULTINET MD ULTINET BP

Booting the System

DOCUMENT, DELTA DOCUMENT, UPG

Upgrade Procedures

C4D

4032

NGW

4300

1987-10



5



1400 Series Upgrade Procedures

PROPRIETARY INFORMATION

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How To Use This Manual

HOW TO USE THIS MANUAL

The procedures in this document explain how to upgrade from your current Ultimate software to the latest software release. This document also includes instructions for those who are bringing up a new system.

These procedures involve your SYS-GEN tape or disk pack. The SYS-GEN is used to generate or reboot your Ultimate system.

Although the SYS-GEN tape can be used to generate or boot all Ultimate systems, this document is intended for Honeywell 1400 Series systems only. If you have any problems, contact the Ultimate Support Group.

The following topics are discussed in this manual:

- Section 1 describes BRINGING UP A VIRGIN SYSTEM. This section should be followed if your Ultimate system is new, and does not contain any software.
- Section 2 describes the procedure for **UPGRADING AN EXISTING SYSTEM.** This section explains the step-by-step method of updating the Ultimate Operating System without affecting the data in your company's files.
- Section 3 explains the procedure for FORMATTING A DISK DRIVE.
- Appendix A contains instructions for **BOOTING THE SYSTEM.** Refer to these instructions whenever you are asked to "boot or initialize the system."
- Appendix B contains a LIST OF ACCOUNTS ON THE SYS-GEN. This list may help you locate a particular account.

1 BRINGING UP A VIRGIN SYSTEM

If you are bringing up a new system, follow the instructions below to load the ULTIMATE system software onto your system. These instructions can only be performed from the line zero terminal (console).

- Begin by formatting your disk drive(s). First, you must Power On to the system.
 - A. Locate the main POWER switch on the back and turn to the ON position. If you have a dual-cabinet system, be sure to turn on both POWER switches.
 - B. Make sure the AC PRESENT light is lit.
 - C. If your system includes a 1/2" reel tape drive, turn the POWER switch on.
- 2. Boot the system. If you are rebooting a system that is up and running, you must first do a :WARMSTOP from the SYSPROG account.
 - A. Load the Ultimate SYS-GEN tape. (Refer to the tapeloading instructions in Section 4 of the Operations and Maintenance manual.)
 - B. If both the AC PRESENT and DC ON lights are on, press the RESET button. If only the AC PRESENT light is on, press the POWER ON button. The following screen will be displayed.

This is the Ultimate Operating System

System Startup Options:

(C)oldstart (D)iagnostic Monitor (F)ile Restore (W)armstart

Enter option:

- C. Refer to Section 6 of the Operations and Maintenance manual for information on each of the System Startup Options.
- **NOTE:** If the system was :WARMSTOPPED prior to being powered off, refer to Section 6.7 of the Operations and

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Bringing Up a Virgin System

Maintenance manual to WARMSTART the system. If the system was not :WARMSTOPPED prior to being powered off, then refer to Section 6.2 to COLDSTART the system.

- 3. If your disk(s) are new or have disk errors, format your disk(s). Otherwise, proceed to the next step. Section 3.1 of this manual explains formatting procedures.
- 4. If you formatted your disk(s), boot the system. The previous screen will be displayed.

If you did not format your disk, the previous screen should already be displayed.

At the prompt to select an option, enter F.

This initiates a complete File-Restore. You will be doing a complete file-restore with the SYS-GEN tape only!

Information about your disc configuration will be displayed. A sample screen is shown below.

Disc Configuration

chan set name # of FF20 Ultimate 1400 1 1 L 2000# time date ABS ULT REL XX Tape 0 attached Block size: 8192

In the next screen, you will be asked for your system serial number.

Tape 0 attached Block size: 8192

System serial # is presently

Enter system serial # or <CR> to accept

Enter your System Serial Number

(i.e., the "TN," "NE," "NB," or "BV" number of the system). For example, enter BV1234. If the correct serial number is shown, press RETURN to accept it.

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Bringing Up a Virgin System

The following screen is displayed.

Tape 0 attached Block size: 8192

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Press RETURN if the number is correct.

You may re-enter the correct number if you made a mistake. Press RETURN after you enter the correct number.

The following screen is displayed.

Tape 0 attached Block size: 8192

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Mount ABS tape and enter number of files to skip, if any:

Press RETURN.

Do not enter a number. (Your SYS-GEN tape should already be mounted.) The following screen is displayed.

Bringing Up a Virgin System

System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any: XX-XXX XXX-XXX XXX-XXX XXX-XXX XXX-XXX XXX-XXX Spooler started Mount DATA tape and press RETURN

WARNING: Do not mount your File-Save tape. Your SYS-GEN tape should already be mounted.

Press RETURN.

The following screen is displayed.

Bringing	Up a	Virgin	System
----------	------	--------	--------

Mount ABS tape and enter number of files to skip, if any: XX-XXX XXXX-XXX XXXX-XXX XXXX-XXX XXXX-XXX Spooler started Mount DATA tape and press RETURN L 2000# time date DATA SYS-GEN Seq# of this data tape: 0 0 0 0 Is this the right tape (Y/N)?

Enter Y and press RETURN.

The File-Restore will begin. Each filename on the tape will be listed on your screen. When all files have been restored, the following screen is displayed.

Update/transaction tapes (Y/N)?

Enter N and press RETURN.

The following screen is displayed.
Bringing Up a Virgin System

Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0

date time Logon Please:

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>>

This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

Logon Please: date time <<< Welcome to the Ultimate Computer System >>> The Ultimate Corp. >>> <<< Copyright date <<< time Release XX Rev XXX date >>> This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time =

Bringing Up a Virgin System

Enter the time in military format (HH:MM:SS).

For example, enter 5PM as 17:00:00. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

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Bringing Up a Virgin System

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

> The system will display several messages. If there are any error messages (i.e.: System does not verify), <u>call</u> the Ultimate Support Group immediately.

The following screen will be displayed.

date time Logon please:

- 5. Load the WP (UltiWord), ULTILINK, ATP, and ULTIMATION accounts.
 - A. Logon to your SYSPROG account.
 - B. Mount your SYS-GEN tape. Make sure it is at load point and on-line.
 - C. From the SYSPROG main menu, select "Load WP account from SYS-GEN tape." The program will search for and load the WP account from the SYS-GEN tape.
 - D. When the WP account has been loaded, type **SYSPROG** and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTILINK account from SYS-GEN

Upgrade Procedures

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tape." The program will search for and load the ULTILINK account from the SYS-GEN tape.

- E. When the ULTILINK account has been loaded, type **SYSPROG** and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ATP account from SYS-GEN tape." The program will search for and load the ATP account from the SYS-GEN tape.
- F. When the ATP account has been loaded, type SYSPROG and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTIMATION account from SYS-GEN tape." The program will search for and load the ULTIMATION account from the SYS-GEN tape.
- 6. Create a duplicate SYS-GEN.

Ultimate recommends that you create one or more copies of the SYS-GEN for backup, in case your original SYS-GEN is missing or contains errors.

- A. Remove the SYS-GEN, and mount a write-enabled blank tape (or spare formatted disk pack) to be used for the duplicate SYS-GEN.
- B. At TCL in the SYSPROG account, type:

SYS-GEN and press RETURN.

- The duplicate copy of the SYS-GEN will be created. When the duplicate is complete, unload the duplicate SYS-GEN, label it, and store it in a safe place. Repeat Steps a and b to make as many copies of the SYS-GEN as you prefer.
- 7. You may now begin to load your application software.

2 UPGRADING AN EXISTING SYSTEM

The only way to upgrade a 1400 Series system is to do a File-Restore from your SYS-GEN tape. (This is often referred to as Method 1.) If you are upgrading your 1400 system, follow the instructions in this section. (For those of you who have used other methods on different systems, be sure to use this method only on the 1400 Series systems.)

1. Do a complete File-Save of the system.

You'll need the File-Save to restore your own accounts later in the upgrade. Follow the instructions in the <u>Operations and Maintenance</u> Guide to do a File-Save.

2. Make sure everyone is logged off the system. Then log on to the SYSPROG account. At TCL, enter:

:WARMSTOP and press RETURN.

The Warmstop procedure brings your system down in a controlled manner, ensuring that the integrity of your data is preserved.

Ignore messages displayed by the :WARMSTOP verb.

- 3. Mount the SYS-GEN tape, and bring to load point.
- 4. Boot the system.
- 5. If your disk(s) are new or have disk errors, format your disk(s). Section 3.1 of this manual explains formatting procedures.
- 6. If you formatted your disk, boot the system. The following screen will be displayed. If you did not format your disk, the following screen should already be displayed.

This is the Ultimate Operating System System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart Enter Option(s) or ? for help:

Enter F

This initiates a complete File Restore. You will be doing a complete file-restore with the SYS-GEN tape only!

Information about your disc configuration will be displayed. A sample screen is shown following.

Disc Configuration

chan set name # of 0400 123 TEST 2 2 L 2000# time date ABS ULT REL XX

Tape 0 attached Block size: 8192

In the next screen, you will be asked for your system serial number.

Upgrade Procedures

Tape 0 attached Block size: 8192 System serial # is presently Enter system serial # or <CR> to accept

Enter your System Serial Number

(i.e., the "TN," "NE," "NB," or "BV" number of the system). For example, enter BV1234. If the correct serial number is shown, press RETURN to accept it.

The following screen is displayed.

Tape 0 attached Block size: 8192 System serial # is presently BVxxxx Enter system serial # or <CR> to accept

Press RETURN if the number is correct.

You may re-enter the correct number if you made a mistake. Press RETURN after you enter the correct number.

The following screen is displayed.

Tape 0 attached Block size: 8192 System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any: Press RETURN. Do not enter a number. Your SYS-GEN tape should already be mounted. The following screen is displayed. System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any: XX-XXX XXXX-XXX XXXX-XXX XXXX-XXX XXXX-XXXX Spooler started Mount DATA tape and press RETURN WARNING: Do not mount your File-Save tape. (Your SYS-GEN tape should already be mounted.)

Press RETURN.

The following screen is displayed.

Upgrade Procedures

Mount ABS tape and enter number of files to skip, if any: XX-XXX XXXX-XXX XXXX-XXX XXXX-XXX XXXX-XXX Spooler started Mount DATA tape and press RETURN L 2000# time date DATA SYS-GEN Seq# of this data tape: 0 0 0 0 Is this the right tape (Y/N)?

Enter Y and press RETURN.

The File-Restore will begin. Each filename on the tape will be listed on your screen. When all files have been restored, the following screen is displayed.

Update/transaction tapes (Y/N)?

Enter N and press RETURN.

The following screen is displayed.

Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0 date time Logon Please: <<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>> This is the Cold-Start Procedure Enter <CR> to continue Press RETURN. The following screen is displayed. date time Logon Please: <<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>> This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time =

Upgrade Procedures

Enter the time in military format (HH:MM:SS).

For example, enter 5PM as 17:00:00. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

The system will display several messages. If there are any error messages (i.e.: System does not verify), call the Ultimate Support Group immediately.

The following screen will be displayed.

date time Logon please:

- 7. Load the WP (UltiWord), ULTILINK, ATP, and ULTIMATION accounts. These steps necessary so that you may create a duplicate SYS-GEN, in Step 8 below.
 - a. Logon to your SYSPROG account.
 - b. Mount your SYS-GEN tape. Make sure it is at load point and on-line.
 - c. From the SYSPROG main menu, select "Load WP account from SYS-GEN tape." The program will search for and load the WP account from the SYS-GEN tape.

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- d. When the WP account has been loaded, type **SYSPROG** and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTILINK account from SYS-GEN tape." The program will search for and load the ULTILINK account from the SYS-GEN tape.
- e. When the ULTILINK account has been loaded, type **SYSPROG** and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ATP account from SYS-GEN tape." The program will search for and load the ATP account from the SYS-GEN tape.
- f. When the ATP account has been loaded, type SYSPROG and press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTIMATION account from SYS-GEN tape." The program will search for and load the ULTIMATION account from the SYS-GEN tape.
- 8. Create a duplicate SYS-GEN. Ultimate recommends that you create one or more copies for backup, in case your original SYS-GEN is missing or contains errors.
 - a. Remove the SYS-GEN, and load a write-enabled blank tape (or spare formatted disk pack).
 - b. AT TCL on the SYSPROG account, type:

SYS-GEN and press RETURN.

When the duplicate SYS-GEN is complete, unload the tape or disk. Remove the duplicate SYS-GEN, label it, and store it in a safe place. Repeat this step to make as many copies as you prefer.

IMPORTANT: No application work should be done until the following steps have been completed.

9. If you were using UltiWord (the WP account) and ULTIMATION before the upgrade, then you must delete the WP and ULTIMATION accounts you loaded in Step 7. The WP account you loaded in Step 7 does not contain your WP user names or documents, and the ULTIMATION account you loaded in Step 7 does not contain your user codes and other setup information. You must use the DELETE-ACCOUNT command to delete the WP and ULTIMATION accounts now. (See the <u>System Commands Guide</u> for instructions on using the DELETE-ACCOUNT command. This command must be issued from the SYSPROG account.) You will be instructed to restore your original WP and ULTIMATION accounts in a later step. (Do not delete the ULTILINK or ATP accounts.)

If you were <u>not</u> using WP or ULTIMATION before the upgrade, you do not have to delete these two accounts now.

- 10. You are now ready to restore your own accounts. If you were using ULTIMATION before this upgrade, you will restore the ULTIMATION account in this step.
 - a. Logon to the SYSPROG account and go to TCL.
 - b. If you are upgrading from Rev 123 or later, type:

T-ATT and press RETURN.

If you are upgrading from a release prior to Rev 123, type:

T-ATT (O and press RETURN.

This indicates that you are restoring from an "old" style tape.

c. Mount the first reel of your File-Save from Step 1. Bring it to load point and on-line.

> There are two methods to use in restoring your accounts. These are by using either the ACCOUNT-RESTORE verb or the ALL-ACCOUNT-RESTORE verb. The ALL-ACCOUNT-RESTORE will not work if your FILE-SAVE was not made from the FILE-SAVE proc supplied by The Ultimate Corp. If it was made from other sources, you must use the ACCOUNT-RESTORE verb.

If using the ALL-ACCOUNT-RESTORE method, proceed to Step d. If using the ACCOUNT-RESTORE method, proceed to Step e.

d. ALL-ACCOUNT-RESTORE method: Type:

RUN DICT SYSPROG-PL ALL-ACCOUNT-RESTORE

and press RETURN.

This program will restore all application accounts not already on the system, including the ULTIMATION account. When completed, go to Step 11. (Note that you cannot use update/transaction tapes with this method.)

e. ACCOUNT-RESTORE method: Type:

ACCOUNT-RESTORE accountname and press RETURN.

Use this command to individually restore all application accounts not on the system. Follow this procedure for each account you are restoring. Make

Upgrade Procedures

sure you use this procedure to restore the ULTIMATION account, if you were using it before the upgrade.

- 11. Make sure you are logged on to the SYSPROG account and at TCL.
- 12. Type:

RUN DICT SYSPROG-PL UPG.NEWAC and press RETURN.

This program will display names of all application accounts to be upgraded. When all names are displayed, you will then be prompted with:

(C)ontinue or (Q)uit?

Enter C.

This program will upgrade the Master Dictionary of each application account displayed.

13. Load UltiWord (the WP account).

If UltiWord was not on your system before the upgrade, and you loaded it in Step 7, then go to Step 16.

If you were using WP prior to upgrading to this release, and you were:

Previously on Rev 110x, go to step a.

Previously on Rev120x, 121x, or 122x, logon to the WP account, go to TCL, and go to Step c.

Previously on Rev 123x, 124x, 125x, 130x, 135x, 140x, 150x, 160x, or 170x or later, go to Step 14.

a. Logon to the WP account and go to TCL.

b. Type:

CREATE-FILE DATA WP-PROGS, TABLES 3,1

and press RETURN.

c. Type:

CREATE-FILE DATA WP-PROGS, USER 31,1

Upgrade Procedures

and press RETURN.

d. Make sure the SYS-GEN is at load point and on-line.

e. Logon to the SYSPROG account and go to TCL.

f. Type:

UPG-WP and press RETURN.

This program will load the new WP from the SYS-GEN tape.

g. Logon to WP.

The Conversion program will be called up automatically. The following screen will be displayed.

DO YOU WANT TO CONTINUE WITH THE CONVERSION (Y/N):

Enter Y

to initiate the conversion.

h. Go to Step 15.

14. Upgrade the WP account.

Do this step only if you are upgrading from Rev123x, 124x, 125x, 130x, 135x, 140x, 150x, 160x, or 170x or later

a. Make sure the SYS-GEN is at load point and on-line.

- b. Make sure you are logged on to the SYSPROG account and at TCL.
- c. Type:

UPG-WP and press RETURN.

This program will load the new WP from the SYS-GEN.

15. Enable WP in user accounts.

Upgrade Procedures

Logon to the WP account.

The Word Processor Main Menu will be displayed, as shown following.

-----***** The Ultimate Corp. ***** ***** WORD PROCESSING **** ***** Document Manager ***** Main Menu YOUR USER NAME: DOCUMENT NAME: (C)opy documents (D)elete user (E)dit/Enter (L)ist (N)ew (P)rint (S)et up user account (U)tility (V)iew e(X)it Enter option wanted: ______

Enter S.

This selects the program to set up user accounts. The following screen is displayed.

***** The Ultimate Corp. *****
***** WORD PROCESSING *****
***** Document Manager *****
Set up USER WP Menu
YOUR USER NAME:
DOCUMENT NAME:
Enter name of account to set up or <EDIT>

Enter the user account name you wish upgraded, and press RETURN.

The following screen is displayed.

***** The Ultimate Corp. *****
***** WORD PROCESSING *****
***** Document Manager *****
Set up USER WP Menu
YOUR USER NAME:
DOCUMENT NAME:
Enter name of account to set up or <EDIT>
The master dictionary of XXXX contains the
following
These will be overwritten if Y is answered. (Y)es
or <EDIT>

Enter Y.

You will now be able to use WP from this account. The program will update all necessary verbs and Q-pointers for the Ultimate Word Processor. Repeat these steps for each account on which you have WP. When complete, go to Step 16.

- **NOTE:** If you get an error message such as "D/CC/CL Pointer Update Rejected," call the Ultimate Support Group.
- 16. Load in any utilities of your own that you may store in the SYSPROG account.

17. If you are upgrading from a release <u>prior</u> to Rev 130 and you use the DICT ACC for Logon purposes (ie: setting baud rate, terminal type), you will have to do a selective restore of the DICT ACC from your File-Save. Follow the steps below.

a. Mount your File-Save and bring it to load point.

b. Logon to SYSPROG and go to TCL.

c. Type:

SEL-RESTORE DICT ACC * (O and press RETURN.

The following screen is displayed.

>SEL-RESTORE DICT ACC * (O

Account name on tape:

Type:

ACC and press RETURN.

The following screen is displayed.

>SEL-RESTORE DICT ACC * (O Account name on tape: ACC File name:

Type:

DICT ACC and press RETURN.

The selective-restore will begin.

d. After the selective-restore has been completed, type: **RUN DICT SYSPROG-PL ACCCONV** and press RETURN.

Upgrade Procedures

This program will convert all item IDs in the DICT ACC from a length of two to three.

- 18. If you are upgrading to Revision 180 or later, and if you store your own items in the TERMDEF file, then you must restore that file from your last file-save. Otherwise, the TERMDEF file will be recopied from the SYS-GEN, and the extra items you added to the file will not be present. Follow the steps below.
 - a. Mount your File-Save and bring it to load point and on-line.
 - b. Logon to SYSPROG and press RETURN to go to TCL.
 - c. Type:

SEL-RESTORE TERMDEF * and press RETURN.

The following screen is displayed.

>SEL-RESTORE TERMDEF *

Account name on tape:

Type:

SYSPROG and press RETURN.

The following screen is displayed.

>SEL-RESTORE TERMDEF *

Account name on tape: SYSPROG

File name:

Type:

TERMDEF and press RETURN.

The selective-restore will begin.

When the selective-restore has completed, unload the File-Save tape and store it in a safe place.

19. Mount the SYS-GEN tape, and bring it to load point and on-line. Then log on to the SYSPROG account. At TCL, type:

UPG-REV and press RETURN.

A list of filenames will appear on your screen. Then the following message will appear.

If last file name displayed is 'DICT MD', Enter return

Else enter 'ABORT'

Press RETURN if the last filename displayed is DICT MD.

If the last filename displayed is not DICT MD, enter **ABORT.** You will return to TCL. <u>Do not proceed.</u> Call the Ultimate Support Group.

The following message will appear.

If last file name displayed is 'ULTINET MD', Enter return

Else enter 'END'

Press RETURN if the last filename displayed is ULTINET MD.

20. Restore your system Q-pointers. If you have any Q-pointers on your system, you must selectively-restore them from your file-save tape. System Q-pointers are normally stored at the end of the file-save, so if you have a multiple-reel file-save, the Q-pointers will be stored on the last reel. You must begin the sel-restore from reel 1 of your file-save. Then you will be instructed below to remove reel 1 and mount the last reel. Follow the steps below.

a. Mount reel #1 of your File-Save and bring it to load

Upgrade Procedures

point and on-line.

b. Logon to SYSPROG and press RETURN to go to TCL.

c. Type:

SEL-RESTORE SYSTEM * (N) and press RETURN.

The N option specifies that the file should be identified by its number, not by its name. The following screen is displayed.

>SEL-RESTORE SYSTEM * (N)
File #:

.

Type:

1 and press RETURN.

The selective-restore will begin. On your terminal, you should see the following.

1 SYSTEM

Then the tape will begin moving forward. At this point, press the BREAK key to interrupt the sel-restore. Then rewind and unload the first reel of the file-save, and load the last reel of your file-save. Once that reel is on-line, on the terminal type **G** and press RETURN to resume the sel-restore. Your system Q-pointers will be restored.

When the selective-restore has completed, unload the File-Save tape and store it in a safe place.

21. Reload UltiCalc.

If you were using UltiCalc before the upgrade, you must re-install UltiCalc. To do so, log on to the ULTICALC account. At the UltiCalc menu, enter I to select Install UltiCalc on the system.

If you were not using UltiCalc before the upgrade, then go on to Step 22.

Upgrade Procedures

22. The upgrade is now complete. You may now logon and begin your normal work. Keep the File-Save from Step 1 from your previous release for future reference.

Upgrade Procedures

Diagnostics Monitor

3 FORMATTING A DISK DRIVE

The Diagnostics Monitor is run off-line. This means that you are not able to run your system in the normal mode. Only line zero is activated. The Ultimate Diagnostics Monitor has two modes of operation:

- 1. Formatting
- 2. Maintenance

This document will only discuss the option for formatting your disk (consult the Diagnostics Monitor Manual for more detailed information).

- 1. Make sure you've followed the Booting instructions in Section 5.
- 2. At the System Startup Options menu, enter D.

This will load the Diagnostics Monitor. The following screen will be displayed.

ST506 disc sub-system Format and disc diagnostic utility

(F)ormat a drive (B)ad sector map read (R)ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger module (E)xit to options menu

Select option:

Enter F

The following screen is displayed.

ST506 disc sub-system Format and disc diagnostic utility (F)ormat a drive (B)ad sector map read (R)ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger module (E) xit to options menu Select option: F Enter drive number (0-2)Enter the number of the drive (0,1,or 2) that you want to format. The following screen is displayed. _____ ST506 disc sub-system Format and disc diagnostic utility (F)ormat a drive (B)ad sector map read (R)ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger module (E) xit to options menu Select option: F Enter drive number (0-2).. 0 Enter (Y)es to continue

Type Y to continue the formatting process. This will destroy all previous data on the disc.

Upgrade Procedures

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Diagnostics Monitor

The following screen is displayed.

ST506 disc sub-system
Format and disc diagnostic utility
 (F)ormat a drive
 (B)ad sector map read
 (R)ead disc parameters (vtoc)
 (W)rite disc parameters (vtoc)
 (D)rive diagnostics menu
 (S)ystem debugger module
 (E)xit to options menu
Select option: F
Enter drive number (0-2).. 0
Enter (Y)es to continue... Y
Use bad sector map (Y/N)

Enter:

Y to make sure previous bad tracks are marked defective N if you don't want to save previously marked bad tracks

CAUTION: If you are formatting a <u>new</u> drive, you must enter N at this prompt. Then, at any time in the future when formatting the drive, you may enter Y.

The following screen is displayed.

ST506 disc sub-system Format and disc diagnostic utility (F)ormat a drive (B)ad sector map read (R) ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger module (E) xit to options menu Select option: F Enter drive number (0-2).. 0 Enter (Y)es to continue... Y Use bad sector map (Y/N).. N Verifying cyl:xxxx trk:xx Writing map Writing VTOC

Once these messages have been displayed, then the formatting process is complete.

APPENDIX A: BOOTING THE SYSTEM

Throughout this manual, you will be asked to "boot" or "initialize the system." The following steps describe the procedure.

- 1. Make sure the AC PRESENT light is ON. (Refer to the POWERING ON instructions in Section 2.)
- 2. Load the Ultimate SYS-GEN tape. (Refer to the tape loading instructions in Section 4.)
- 3. If both the AC PRESENT and DC ON lights are on, press the RESET button. If only the AC PRESENT light is on, press the POWER ON button. The following screen will be displayed.

This is the Ultimate Operating System

System Startup Options:

(C)oldstart
(D)iagnostic Monitor
(F)ile Restore
(W)armstart

Enter Option:

4. Refer to Section 6 for information on each of the System Startup Options.

NOTE: If the system was :WARMSTOPPED prior to being powered off, refer to Section 6.7 to WARMSTART the system. If the system was not :WARMSTOPPED prior to being powered off, then refer to Section 6.2 to COLDSTART the system.

APPENDIX B: LIST OF ACCOUNTS ON THE SYS-GEN

The general format of the SYS-GEN tape is as follows:

```
SYSTEM BOOT 1
SYSTEM BOOT 2
COLD LOAD
ABS LOAD
FILE DATA (including the following accounts:)
     SYSTEM
     SYSTEM-ERRORS
     BLOCK-CONVERT
     SECURITY
     PROCLIB
     SYSLIB
     SYSTEM (Synonym)
     SYSPROG
     ERRMSG
     SPSYM
     GAMES
     TRAINING
     ACC
     SYSTEM (Q-pointers, etc.)
     T-DUMP of STAT-FILE
```

Several files are T-DUMPed at the end of the SYS-GEN tape. These files are used for the selective upgrade method, and for updating the WP, ATP, ULTILINK, and ULTIMATION accounts. To position the tape at the first file, do 19 T-FWDs from load point. The files are dumped as follows.

> SYSPROG MD DICT NEWAC ERRMSG DICT SYSLIB SYSLIB DICT TERMDEF TERMDEF CONVERSION, DOC CONVERSION, PGM CONVERSION, PROC CONVERSION, TABLE OSYM PSYM DICT STAT-FILE DICT BLOCK-CONVERT USER-MODES USER-MODES, SOURCE DICT SYSPROG-PL DICT ACC DICT SYS-ERRS DICT DOCUMENT DOCUMENT

DOCUMENT, SYSTEM DICT UFOS UFOS DICT REALLOC-FILE WP Master Dictionary DICT WP-PROGS WP-PROGS, TABLES DICT SPSYM SPSYM SPSYM, DF account-save of WP account-save of ATP account-save of ULTILINK account-save of ULTIMATION ULTINET MD ULTINET BP

DOCUMENT, DELTA DOCUMENT, UPG





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1400 Series Upgrade Procedures

PROPRIETARY INFORMATION

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HOW TO USE THIS MANUAL

The procedures in this document explain how to upgrade from your current Ultimate software to the latest software release. This document also includes instructions for installing Ultimate on a new system.

These procedures involve your SYS-GEN tape. The SYS-GEN is used to generate or reboot your Ultimate system.

Although the SYS-GEN tape can be used to generate or boot all Ultimate systems, this document is intended for Honeywell 1400 Series systems only. If you have any problems, contact Ultimate Technical Support at (201) 887-2721.

The following topics are discussed in this manual:

- Section 1 describes the procedure for INSTALLING ULTIMATE ON A NEW SYSTEM. This section should be followed if your Ultimate system is new, and does not contain any software.
- Section 2 describes three methods of UPGRADING AN EXISTING SYSTEM. Read the introduction to this section to determine which method you should use. Then follow the appropriate procedure.
- Section 3 explains the procedures for FORMATTING A DISK DRIVE.
- Appendix A contains instructions for **BOOTING THE SYSTEM**. Refer to these instructions whenever you are asked to "boot or initialize the system."
- Appendix B contains a LIST OF ACCOUNTS ON THE SYS-GEN. This list may help you locate a particular account.

The end of this document contains a <u>Reader Comment Form</u> and a <u>Bug Report Form</u>. If you find a problem or error in this guide or with the system software, please complete the appropriate form. Then fold and tape the form so that Ultimate's address appears on the outside, and send it to The Ultimate Corp.

1 INSTALLING ULTIMATE ON A NEW SYSTEM

Follow the instructions below to load the ULTIMATE system software onto your new system. These instructions can only be performed from the line zero terminal (console).

- 1. Begin by formatting your disk drive(s). First, you must Power On to the system.
 - A. Locate the main POWER switch on the back and turn to the ON position. If you have a dualcabinet system, be sure to turn on both POWER switches.
 - B. Make sure the AC PRESENT light is lit.
- 2. Boot the system. If you are rebooting a system that is up and running, you must first do a :WARMSTOP from the SYSPROG account.
 - A. Load the Ultimate SYS-GEN tape. (Refer to the tape loading instructions in Section 4 of the Operations and Maintenance manual.)
 - B. If both the AC PRESENT and DC ON lights are on, press the RESET button. If only the AC PRESENT light is on, press the POWER ON button. The following screen is displayed.

This is the Ultimate Operating System System Startup Options: (C)oldstart (D)iagnostic Monitor (F)ile Restore (W)armstart Enter option:

- C. Refer to Section 6 of the <u>1400 Operations and Maintenance</u> manual for information on each of the System Startup Options.
- **NOTE:** If the system <u>was</u>: WARMSTOPPED prior to being powered off, refer to Section 6.4 of the <u>1400 Operations and Maintenance</u> manual to WARMSTART the system. If the system <u>was</u> <u>not</u>: WARMSTOPPED prior to being powered off, then refer to Section 6.1 to COLDSTART the system.
- 3. If your disk(s) are new or have disk errors, format your disk(s). Otherwise, proceed to the next step. Section 3 of this manual explains formatting procedures.

Installing Ultimate on a New System

4. If you formatted your disk(s), boot the system. The previous screen is displayed.

If you did not format your disk, the previous screen should already be displayed.

At the prompt to select an option, type **F**.

This initiates a complete File-Restore. You will be doing a complete file-restore with the SYS-GEN tape only!

Information about your disc configuration is displayed. A sample screen is shown below.

Disc Configuration

chan set name # of FF20 Ultimate 1400 1 1 L 2000# time date ABS ULT REL XX Tape 0 attached Block size: 16384

In the next screen, you will be asked for your system serial number.

Tape 0 attached Block size: 16384 System serial # is presently Enter system serial # or <CR> to accept

Enter your System Serial Number

For example, enter BV0000. If the correct serial number is shown, press RETURN to accept it.

The following screen is displayed.

Tape 0 attached Block size: 16384

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Press RETURN if the number is correct.

You may reenter the correct number if you made a mistake. Press RETURN after you enter the correct number.

The following screen is displayed.

Tape 0 attached Block size: 16384

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Mount ABS tape and enter number of files to skip, if any:

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Installing Ultimate on a New System

Press RETURN.

Do not enter a number. (Your SYS-GEN tape should already be mounted.) The following screen is displayed.

ç	vstem serial # is presently RVyyyy
5	ystem seriar # is presentry D VXXXX
E	nter system serial # or <cr> to accept</cr>
N	fount ABS tape and enter number of files to skip, if any:
X	X-XXX
Х	XXX-XXX
Х	XXX-XXX
X	XXX-XXXX
S	pooler started
N	Jount DATA tape and press RETURN

WARNING: Do not mount your File-Save tape. Your SYS-GEN tape should already be mounted.

Press RETURN.

The following screen is displayed.

Y	X.XXX
x	XXX-XXX
x	XXX-XXX
X	XXX-XXXX
Sp	pooler started
M	ount DATA tape and press RETURN
L	2000# time date DATA SYS-GEN
Se	eq# of this data tape: 0 0 0 0
Ic	this the right tape (Y/N)?

Type **Y** and press RETURN.

The File-Restore will begin. Each file name on the tape will be listed on your screen. When all files have been restored, the following screen is displayed.

Update/transaction tapes (Y/N)?

Type N and press RETURN.

The following screen is displayed.

Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0

date time Logon Please:

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>>

This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

date time Logon Please:

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>>

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time _date

Time =

Enter the time in military format (HH:MM:SS) and press RETURN.

For example, enter 5pm as 17:00:00. The following screen is displayed.

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Installing Ultimate on a New System

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY and press RETURN.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

The system will display several messages. If there are any error messages (i.e.: System does not verify), call Ultimate Technical Support immediately

The following screen is displayed.

Installing Ultimate on a New System

Do You Wish to Start Parallel Printer 0 (<CR>=NO, Y=YES)?

If you type Y to start a parallel printer, the following screen is displayed.

SP-STARTLPTR 0,0,1,P0
[1118]

The printer control block has been initialized. The correct paper and LPI settings must have been previously set to insure proper printing.

date time Logon please:

If you press RETURN, the following screen is displayed.

date time Logon please:

5. Load the WP (UltiWord), ULTILINK, ATP, and ULTIMATION accounts.

If Installing Revision 185Q or later

Logon to the SYSPROG account. Press RETURN at the SYSPROG Main Menu to display the TCL prompt. At the TCL prompt, type:

RESTORE-ALL-ULTIS and press RETURN.

In a few minutes, your UltiWord, ULTILINK, ATP, and ULTIMATION accounts will be installed on your system. When this process is complete, the TCL prompt is displayed.

If Installing a Revision Prior to 185Q

- A. Logon to the SYSPROG account.
- B. Mount your SYS-GEN tape. Make sure it is at load point and on-line.
- C. From the SYSPROG main menu, select "Load WP account from SYS-GEN tape." The program will search for and load the WP account from the SYS-GEN tape.
- D. When the WP account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTILINK account from SYS-GEN tape." The program will search for and load the ULTILINK account from the SYS-GEN tape.
- E. When the ULTILINK account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ATP account from SYS-GEN tape." The program will search for and load the ATP account from the SYS-GEN tape.
- F. When the ATP account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTIMATION account from SYS-GEN tape." The program will search for and load the ULTIMATION account from the SYS-GEN tape.
- 6. Create a duplicate SYS-GEN.

Ultimate recommends that you create one or more copies of the SYS-GEN for backup, in case your original SYS-GEN is missing or damaged.

- A. Remove the SYS-GEN, and mount a write-enabled blank tape to be used for the duplicate SYS-GEN.
- B. At TCL in the SYSPROG account, type:

SYS-GEN and press RETURN.

The duplicate copy of the SYS-GEN will be created. When the duplicate is complete, unload the duplicate SYS-GEN, label it, and store it in a safe place. Repeat Steps A and B to make as many copies of the SYS-GEN as you prefer.

7. You may now begin to load your application software.

2 UPGRADING AN EXISTING SYSTEM

Use one of the following three upgrade methods:

- 1. FILE-RESTORE FROM SYS-GEN TAPE METHOD
- 2. FILE-RESTORE FROM FILE-SAVE TAPE METHOD
- 3. SELECTIVE UPGRADE METHOD

You should only use this method if you are instructed to do so by Ultimate Technical Support.

FROM RELEASE	TO RELEASE	USE METHOD
any release other than a 185 release	any 185 release	1
185A to 185R	Rev 185S or later	1 or 2 (You will be instructed to format your disks using Rev 185S. Make sure you have a File-Save.)

WARNING

User Exits should only be in frames 400 to 599. If you have User Exits in frames other than 400 to 599, they may cause problems during the upgrade.

2.1 METHOD 1: THE FILE-RESTORE FROM SYS-GEN TAPE METHOD

1. Do a <u>complete</u> File-Save of the system.

You will need the File-Save to restore your own accounts later in the upgrade. Follow the instructions in the <u>Operations and Maintenance Guide</u> to do a File-Save.

2. Now, you must check the File-Save tape to make sure there are no parity errors or bad spots on the tape.

This procedure involves doing a selective restore on an account and file that <u>does not exist</u>. This forces the system to read all of the tape(s), thereby checking the tape(s) for parity errors. Parity errors are signaled by percent (%) signs on your terminal.

a. Mount tape #1 of your File-Save (or the tape you will use for backup). Make sure the tape is online.

b. At TCL, type:

LOGTO SYSPROG and press RETURN.

Then press RETURN again to go to TCL. At TCL, type:

T-ATT n and press RETURN.

Replace "n" with the number of the tape drive on which the tape is mounted. Then, at TCL, type:

SEL-RESTORE SYSPROG-PL * and press RETURN.

You will be prompted:

Account name on tape?

Type a name that you know <u>does not exist</u> on the tape. For example, type TEST-ACCOUNT and press RETURN. Next, you will see the following prompt:

Filename on tape?

Again, type a name that <u>does not exist</u> on the tape. For example, type TEST-FILE and press RETURN.

c. The system will begin reading the tape for the account and file names you entered. Watch the terminal for % signs. If the tape is one of a multiple tape set, then you will be prompted to enter tape #2, then tape #3, etc., until all tapes have been mounted. Of course, the system will not find the account and file names so, when all tapes have been mounted, you will see the message:

0 items restored

If you see percent (%) signs on the terminal at any point during this procedure, then your tape(s) contains parity errors, and should not be used. Use another set of tapes to do a File-Save. Then try this test again. If the entire procedure runs <u>without</u> displaying percent (%) signs, then your tape(s) does not contain parity errors, and may be used to restore your data.

3. Make sure everyone is logged off the system. Then log on to the SYSPROG account. At TCL, enter:

:WARMSTOP and press RETURN.

The Warmstop procedure brings your system down in a controlled manner, ensuring that the integrity of your data is preserved.

Ignore messages displayed by the :WARMSTOP verb.

- 4. Mount the new SYS-GEN tape, and bring to load point.
- 5. Boot the system.
- 6. Format your disk(s). Section 3 of this manual explains formatting procedures.
- 7. Boot the system. The following screen will be displayed.



Type F

This initiates a complete File-Restore. You will be doing a complete file-restore with the SYS-GEN tape only!

Information about your disc configuration is displayed. A sample screen is shown following.

Disc Configuration

chan set name # of FFxx ULTIMATE 1400 2 2

L 2000# time date ABS ULT REL XX *185 COLD LOAD FRAMES ~01

In the next screen, you will be asked for your system serial number.

Tape 0 attached Block size: 16384 System serial # is presently BVxxxx Enter system serial # or <CR> to accept

Enter your System Serial Number

For example, enter BV0000. If the correct serial number is shown, press RETURN to accept it. You may reenter the correct number if you made a mistake. Then press RETURN after you enter the correct number.

The following screen is displayed.

Tape 0 attached Block size: 16384

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Mount ABS tape and enter number of files to skip, if any:

Press RETURN.

Do not enter a number. Your SYS-GEN tape should already be mounted. The following screen is displayed.

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Mount ABS tape and enter number of files to skip, if any:

XX-XXX XXXX-XXX XXXX-XXX XXXX-XXXX

Spooler started

Mount DATA tape and press RETURN

WARNING: Do not mount your File-Save tape. (Your SYS-GEN tape should already be mounted.)

Press RETURN.

The following screen is displayed.

Mount DATA tape and press RETURN L 2000# time date DATA SYS-GEN Seq# of this data tape: $0 \ 0 \ 0 \ 0$ Is this the right tape (Y/N)?

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Type Y and press RETURN.

The File-Restore will begin. Each filename on the tape will be listed on your screen. When all files have been restored, the following screen is displayed.

Update/transaction tapes (Y/N)?

Type N and press RETURN.

The following screen is displayed.

Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0 date time Logon Please: <<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>> This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

Enter the time in military format (HH:MM:SS) and press RETURN.

For example, enter 5pm as 17:00:00. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY and press RETURN.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

The system will display several messages. If there are any error messages (such as "System does not verify"), call Ultimate Technical Support immediately.

The following screen is displayed.

Do You Wish to Start Parallel Printer 0 (<CR>=NO, Y=YES)?

If you type Y to start a parallel printer, the following screen is displayed.

SP-STARTLPTR 0,0,1,P0 [1118] The printer control block has been initialized. The correct paper and LPI settings must have been previously set to insure proper printing. date time Logon please:

If you press RETURN, the following screen is displayed.

date	time	Logon please:

8. Load the WP (UltiWord), ULTILINK, ATP, and ULTIMATION accounts. These steps are necessary so that you may create a duplicate SYS-GEN, in Step 9 on the next page.

If Installing Revision 185Q or Later

Logon to the SYSPROG account. Press RETURN at the SYSPROG Main Menu to display the TCL prompt. At the TCL prompt, type:

RESTORE-ALL-ULTIS and press RETURN.

In a few minutes, your UltiWord, UltiLink, ATP, and UltiMation accounts will be installed on your system. When this process is complete, the TCL prompt is displayed.

If Installing a Revision Prior to 185Q

- a. Logon to your SYSPROG account.
- b. Mount your SYS-GEN tape. Make sure it is at load point and on-line.
- c. From the SYSPROG main menu, select "Load WP account from SYS-GEN tape." The program will search for and load the WP account from the SYS-GEN tape.
- d. When the WP account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTILINK account from SYS-GEN tape." The program will search for and load the ULTILINK account from the SYS-GEN tape.
- e. When the ULTILINK account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ATP account from SYS-GEN tape." The program will search for and load the ATP account from the SYS-GEN tape.
- f. When the ATP account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTIMATION account from SYS-GEN tape." The program will search for and load the ULTIMATION account from the SYS-GEN tape.
- 9. Create a duplicate SYS-GEN. Ultimate recommends that you create one or more copies for backup, in case your original SYS-GEN is missing or contains errors.
 - a. Remove the SYS-GEN, and load a write-enabled blank tape (or spare formatted disk pack).
 - b. At TCL on the SYSPROG account, type:

SYS-GEN and press RETURN.

When the duplicate SYS-GEN is complete, unload the tape. Remove the duplicate SYS-GEN, label it, and store it in a safe place. Repeat this step to make as many copies as you prefer.

NOTE: Do not use your application programs until you complete the following steps.

10. If you were using UltiWord (the WP account), ULTILINK, and ULTIMATION before the upgrade, then you must delete the WP, ULTILINK, and ULTIMATION accounts you loaded in Step 8. The WP account you loaded in Step 8 does not contain your WP user names or documents. The ULTILINK account you loaded in Step 8 does not contain system nodes definitions. And the ULTIMATION account you loaded in Step 8 does not contain your user codes and other setup information. You must use the DELETE-ACCOUNT command to delete the WP, ULTILINK, and ULTIMATION accounts now. (See the System Commands Guide for instructions on using the DELETE-ACCOUNT command must be issued from the SYSPROG account.) You will be instructed to restore your original WP, ULTILINK, and ULTIMATION accounts in a later step. (Do not delete the ATP account.)

If you were <u>not</u> using WP, ULTILINK, or ULTIMATION before the upgrade, you do not have to delete these three accounts now.

11. You are now ready to restore your own accounts.

a. Logon to the SYSPROG account and go to TCL.

b. If you are upgrading from Rev 123 or later, type:

T-ATT and press RETURN.

If you are upgrading from a release prior to Rev 123, type:

T-ATT (O and press RETURN.

This indicates that you are restoring from an "old" style tape.

c. Mount the first reel of your File-Save from Step 1. Bring it to load point and on-line.

There are two methods to use in restoring your accounts. These are by using either the ACCOUNT-RESTORE verb or the ALL-ACCOUNT-RESTORE verb. The ALL-ACCOUNT-RESTORE will not work if your FILE-SAVE was not made from the FILE-SAVE PROC supplied by The Ultimate Corp. If it was made from other sources, you must use the ACCOUNT-RESTORE verb.

If using the ALL-ACCOUNT-RESTORE method, proceed to Step d. If using the ACCOUNT-RESTORE method, proceed to Step e.

d. ALL-ACCOUNT-RESTORE method:

If installing Revision 185Q or later, type:

ALL-ACCOUNT-RESTORE and press RETURN.

If installing a Revision prior to 185Q, type:

RUN DICT SYSPROG-PL ALL-ACCOUNT-RESTORE

and press RETURN.

This program will restore all application accounts not already on the system, including the ULTIMATION account. When completed, go to Step 12. (Note that you cannot use update/transaction tapes with this method.)

e. ACCOUNT-RESTORE method:

Type:

ACCOUNT-RESTORE ACCOUNTNAME and press RETURN.

Use this command to individually restore all application accounts not on the system. Follow this procedure for each account you are restoring. Make sure you use this procedure to restore the ULTIMATION, ULTILINK, and WP accounts, if you were using them before the upgrade.

12. Make sure you are logged on to the SYSPROG account and at TCL.

13. Type:

RUN DICT SYSPROG-PL UPG.NEWAC and press RETURN.

This program will display names of all application accounts to be upgraded. When all names are displayed, you will then be prompted with:

(C)ontinue or (O)uit?

Type C.

This program will upgrade the Master Dictionary of each application account displayed.

14. UltiWord Upgrade for Rev 110x, 120x, 121x, and 122x.

If UltiWord was not on your system before the upgrade, and you loaded it in Step 8, then go to Step 17.

If you were using WP prior to upgrading to this release, and you were:

Previously on Rev 110x, go to Step a.

Previously on Rev120x, 121x, or 122x, logon to the WP account, go to TCL, and go to Step c.

Previously on Rev 123x, 124x, 125x, 130x, 135x, 140x, 150x, 160x, or 170x or later, go to Step 15.

a. Logon to the WP account and go to TCL.

b. Type:

CREATE-FILE DATA WP-PROGS, TABLES 3,1

and press RETURN.

c. Type:

CREATE-FILE DATA WP-PROGS, USER 31,1

and press RETURN.

d. Make sure the SYS-GEN is at load point and on-line.

e. Logon to the SYSPROG account and go to TCL.

f. Upgrade the UltiWord account.

If Installing Revision 185Q or Later

Type:

UPG-ULTIS and press RETURN.

This program upgrades the files in the new UltiWord, UltiMation, UltiNet, and UltiLink accounts.

If Installing a Revision Prior to 185Q

Type:

UPG-WP and press RETURN.

This program upgrades the files in the WP account.

g. Logon to WP.

The Conversion program will be called up automatically. The following screen is displayed.

· · ·

DO YOU WANT TO CONTINUE WITH THE CONVERSION (Y/N):

Type Y

to initiate the conversion.

h. Go to Step 16.

15. UltiWord Upgrade for Rev 123x, 124x, 125x, 130x, 135x, 140x, 150x, 160x, 170x or later.

a. Make sure the SYS-GEN is at load point and on-line.

b. Make sure you are logged on to the SYSPROG account and at TCL.

c. Upgrade the WP account.

If Installing Revision 185Q or Later

Type:

UPG-ULTIS and press RETURN.

This program upgrades the files in the new UltiWord, UltiMation, UltiNet, and UltiLink accounts.

If Installing a Revision Prior to 185Q

Type:

UPG-WP and press RETURN.

This program upgrades the new WP account.

16. Enable WP in user accounts.

Logon to the WP account.

The Word Processor Main Menu is displayed, as shown following.

***** The Ultimate Corp. ***** *** WORD PROCESSING ***** ***** Document Manager ***** Main Menu YOUR USER NAME: DOCUMENT NAME: (C) opy documents (D)elete user (E)dit/Enter (L)ist (N)ew (P)rint (S)et up user account (U)tility (V)iew e(X)it Enter option wanted:

Type S.

This selects the program to set up user accounts. The following screen is displayed.

. . .

***** The Ultimate Corp. *****
***** WORD PROCESSING *****
***** Document Manager *****
Set up USER WP Menu
YOUR USER NAME:
DOCUMENT NAME:
Enter name of account to set up or <EDIT>

Enter the user account name you wish upgraded, and press RETURN.

The following screen is displayed.

- 20

***** The Ultimate Corp. *****
***** WORD PROCESSING *****
***** Document Manager *****
Set up USER WP Menu

YOUR USER NAME: _ DOCUMENT NAME:

Enter name of account to set up or <EDIT> The master dictionary of XXXX contains the following

These will be overwritten if Y is answered. (Y)es or <EDIT>

Type Y.

You will now be able to use WP from this account. The program will update all necessary verbs and Q-pointers for the Ultimate Word Processor. Repeat these steps for each account on which you have WP. When complete, go to Step 17.

- **NOTE:** If you get an error message such as "D/CC/CL Pointer Update Rejected," call Ultimate Technical Support.
- 17. Upgrade your utilities.

If Installing Revision 185Q or Later

To upgrade the UltiMation, UltiLink, or UltiNet accounts, at TCL in the SYSPROG account, type:

UPG-ULTIS and press RETURN.

Then, load in any utilities of your own that you may store in the SYSPROG account.

If Installing a Revision Prior to 185Q

Load in any utilities of your own that you may store in the SYSPROG account.

18. If you are upgrading from a release prior to Rev 130 or if you use the DICT ACC for Logon purposes (such as for setting the baud rate or terminal type), you will have to do a selective restore of the DICT ACC from your File-Save. Follow the steps below.

a. Mount your File-Save and bring it to load point.

- b. Logon to SYSPROG and go to TCL.
- c. Type:

SEL-RESTORE DICT ACC * (O and press RETURN.

The following screen is displayed.

>SEL-RESTORE DICT ACC * (O

Account name on tape:

Type:

ACC and press RETURN.

The following screen is displayed.

a The main and the second of the internet of the second second second second second second second second second

>SEL-RESTORE DICT ACC * (O

Account name on tape: ACC

File name:

Type:

DICT ACC and press RETURN.

The selective-restore will begin.

d. After the selective-restore has been completed, type:

RUN DICT SYSPROG-PL ACCCONV and press RETURN.

This program will convert all item IDs in the DICT ACC from a length of two to three.

19. If you store your own items in the TERMDEF file, then you must restore that file from your last file-save. Otherwise, the TERMDEF file will be recopied from the SYS-GEN, and the extra items you added to the file will not be present. Follow the steps below.

a. Mount your File-Save and bring it to load point and on-line.

b. Logon to SYSPROG and press RETURN to go to TCL.

c. Type:

SEL-RESTORE TERMDEF * and press RETURN.

The following screen is displayed.



Type:

SYSPROG and press RETURN.

The following screen is displayed.

>SEL-RESTORE TERMDEF *

Account name on tape: SYSPROG

File name:

Type:

TERMDEF and press RETURN.

The selective-restore will begin.

When the selective-restore has completed, unload the File Save tape and store it in a safe place.

If Installing Revision 1850 or later

In addition to restoring your TERMDEF file, type:

UPG-TERMDEF and press RETURN.

Then, proceed to Step 21.

20. Mount the SYS-GEN tape, and bring it to load point and on-line. Then log on to the SYSPROG account. At TCL, type:

UPG-REV and press RETURN.

A list of file names will appear on your screen. Then the following message will appear.

If last file name displayed is 'DICT MD', Enter return Else enter 'ABORT'

Press RETURN if the last filename displayed is DICT MD.

If the last filename displayed is not DICT MD, enter ABORT. You will return to TCL. <u>Do not</u> <u>proceed</u>. Call Ultimate Technical Support.

21. Restore your system Q-pointers. If you have any Q-pointers on your system, you must selectivelyrestore them from your file-save tape. System Q-pointers are normally stored at the end of the filesave, so if you have a multiple-tape file-save, the Q-pointers will be stored on the last tape. You must begin the sel-restore from tape 1 of your file-save. Follow the steps below.

a. Mount tape #1 of your File-Save and bring it to load point and on-line.

b. Logon to SYSPROG and press RETURN to go to TCL.

c. Type:

SEL-RESTORE SYSTEM * (N) and press RETURN.

The N option specifies that the file should be identified by its number, not by its name. The following screen is displayed.

>SEL-RESTORE SYSTEM * (N) File #:

Type:

1 and press RETURN.

The selective-restore will begin. If you have a multiple-tape File-Save, when the first tape's selective restore is completed, you will be prompted to "Mount Next Reel." Mount the next tape at this time.

When the selective-restore is completed, unload the File Save tape(s), and store in a safe place.

22. Reload UltiCalc.

If you were using UltiCalc before the upgrade, you must re-install UltiCalc. To do so, log on to the ULTICALC account. At the UltiCalc menu, enter I to select "Install UltiCalc on the system."

If you were not using UltiCalc before the upgrade, then go on to Step 23.

23. The upgrade is now complete. You may now log on and begin your normal work. Keep the File-Save from Step 1 from your previous release for future reference.

······						
						· · ·
	END ()F UPG	RADE	METHO	D 1	

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2.2 METHOD 2: THE FILE-RESTORE FROM FILE-SAVE TAPE METHOD

You may use this method if you are upgrading from any 185 revision to Revision 185S or later.

NOTE: All users must be off the system until the upgrade is complete.

1. Do a complete File-Save of the system.

You will need the File-Save to restore your own accounts later in the upgrade. Follow the instructions in the <u>Operations and Maintenance Guide</u> to do a File-Save.

2. Now, you must check the File-Save tape(s) to make sure there are no parity errors or bad spots on the tape(s).

This procedure involves doing a selective restore on an account and file that <u>does not exist</u>. This forces the system to read all the tape(s), thereby checking the tape(s) for parity errors. Parity errors are signaled by percent (%) signs on your terminal.

- a. Mount Reel #1 of your File-Save tape (or the tape you will use for backup). Make sure the tape is on-line.
- b. At TCL, type:

LOGTO SYSPROG and press RETURN.

Then press RETURN again to go to TCL. At TCL, type:

T-ATT n and press RETURN.

Replace "n" with the number of the tape drive on which the tape is mounted. Then, at TCL, type:

SEL-RESTORE SYSPROG-PL * and press RETURN.

You will be prompted:

Account name on tape?

Type a name that you know <u>does not exist</u> on the tape. For example, type TEST-ACCOUNT and press RETURN. Next, you will see the following prompt:

Filename on tape?

Again, type a name that does not exist on the tape. For example, type TEST-FILE and press RETURN.

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c. The system will begin reading the tape for the account and file names you entered. Watch the terminal for % signs. If the tape is one reel of a multiple-reel set, then you will be prompted to enter Reel #2, then Reel #3, etc., until all reels have been mounted. Of course, the system will not find the account and file names, so when all reels have been mounted, you will see the message:

0 items restored

If you see percent (%) signs on the terminal at any point during this procedure, then your tape(s) contains parity errors, and should not be used. Use another set of tapes to do a File-Save. Then, try this test again. If the entire procedure runs without displaying percent (%) signs, then your tape(s) does not contain parity errors, and may be used to back up your data.

3. Make sure everyone is logged off the system. Then logto the SYSPROG account. At TCL, enter:

:WARMSTOP and press RETURN.

The Warmstop procedure brings your system down in a controlled manner, ensuring that the integrity of your data is preserved.

Ignore messages displayed by the :WARMSTOP verb.

- 4. Mount the SYS-GEN tape, and make sure it is loaded and on-line.
- 5. Initialize the system (see Appendix A for instructions). The following screen is displayed.

This is the Ultimate Operating System

System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart

Enter Option(s) or ? for help:

6. Format your disk(s). Section 3 of this manual explains the formatting process.

7. Initialize the system (see instructions in Appendix C). The following screen is displayed.

This is the Ultimate Operating System

System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart

Enter Option(s) or ? for help:

Enter F

This command starts a complete File-Restore.

Information about your disk configuration is displayed. A sample screen is shown below.

Disc Configuration

chanset name# ofFFxxULTIMATE 14001

L 2000# time date ABS ULT REL XX *185 COLD LOAD FRAMES ~01

In the next screen, you are asked for your system serial number.

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Tape 0 attached Block size: 16384 System serial # is presently BVxxxx Enter system serial # or <CR> to accept

Enter your System Serial Number

For example, enter BV0000. If the correct serial number is shown, press RETURN to accept it. You may reenter the correct number if you made a mistake. Then press RETURN after you enter the correct number.

The following screen is displayed.

Tape 0 attached Block size: 16384 System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any:

Press RETURN.

Do not enter a number. Your SYS-GEN tape should already be mounted. The following screen is displayed.

ſ	
	Tape 0 attached Block size: 16384
	System serial # is presently BVxxxx
	Enter system serial # or <cr> to accept</cr>
	Mount ABS tape and enter number of files to skip, if any:
	XX-XXX
·	XXXX-XXX XXXX-XXX
	XXXX-XXXX
-	Spooler started
	Mount DATA tape and press RETURN

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Type U.

You will see the message "Rewinding..." on your screen. When the SYS-GEN tape is finished rewinding, the green light on the tape drive will go out, and you will be prompted to "Mount DATA tape and press RETURN" again.

Unload the SYS-GEN tape. Then mount the first reel (or pack) of the File-Save tape (or disk), and make sure it is loaded and on-line.

Press RETURN.

If you have a multiple-reel File-Save, you will be prompted at the end of each reel to mount the next reel.

The following screen is displayed.

Mount DATA tape and press RETURN L2000# time date DATA File-Save Seq# of this data tape: $0 \ 0 \ 0 \ 0$ Is this the right tape (Y/N)?

Check the tape label displayed to verify that this is your most recent file-save tape (or disk). If it is the most recent file-save, enter Y and press RETURN.

The File-Restore will begin. Each filename on the tape will be listed on your screen. When all files have been restored, the following screen is displayed.

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Update/transaction tapes (Y/N)?

Enter N and press RETURN.

The following screen is displayed.

Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0 date time Logon please: <<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XX date >>> This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

date	time Logon Ple	ase:	
<<< Welco <<< Copyr <<< time	me to the Ultima ight date The Release XX R	te Computer Syste Ultimate Corp. Rev XX date	em >>> >>> >>>
This is the Enter <cr< td=""><td>Cold-Start Proces > to continue</td><td>dure</td><td>a, 19</td></cr<>	Cold-Start Proces > to continue	dure	a, 19
Linking sec	condary TCL wor	rkspaces	
X addition:	il task workspace	s initialized	
time	date	· · ·	
Time =			
	·		

Enter the time in military format (HH:MM:SS) and press RETURN.

For example, enter 5pm as 17:00:00. The following screen is displayed.

ſ	
	This is the Cold-Start Procedure Enter <cr> to continue</cr>
	Linking secondary TCL workspaces
	X additional task workspaces initialized
	time date
	Time = 17:00:00 17:00:00 date Date =
e ses L	

Page 2-31

Enter the date in the following format: MM/DD/YY and press RETURN.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 Feb 1986

The system will display several messages. One error message, "Ultimate Operating System does not Verify," is to be expected at this time. The system will verify when the upgrade is complete.

The following screen will be displayed.

>> date time Logon please <<

Upgrading An Existing System

NOTE: Do not use your application programs until you complete the following steps.

- 8. Make sure you are logged on to the SYSPROG account and at TCL.
- 9. Mount the SYS-GEN, and make sure it is loaded and on-line. To rewind the tape to the beginning, type:

T-REW and press RETURN.

10. Upgrade the Master Dictionary of SYSPROG. Type:

T-SPACE 19 and press RETURN.

WARNING: This command will skip 19 files on tape. The names of the files will be displayed on the screen. If the last file listed is not the "STAT-FILE," then type **T-REW** and press RETURN to rewind the tape to the beginning of the reel. Then try this step again. If the last file listed is still not "STAT-FILE," do not proceed. Call Ultimate Technical Support.

11. Type:

T-LOAD MD (O,I) and press RETURN.

12. Upgrade files in the SYSPROG, WP, ULTILINK, and ULTIMATION accounts.

a. Make sure the SYS-GEN is loaded and on-line.

b. Make sure you are logged on to the SYSPROG account and at TCL.

c. Type:

UPG-REV and press RETURN.

The words "END OF FILE" will appear several times on your screen. Then the following message is displayed.

]	If last file name displayed is 'DICT MD', Enter return
]	Else enter 'ABORT'

Press RETURN if the last filename displayed is "DICT MD."

If the last file name displayed is not "DICT MD," enter ABORT. You will return to TCL. Do not proceed. Call Ultimate Technical Support.

Once you press RETURN, the program displays the names of all application accounts to be upgraded. At the prompt "(C)ontinue or (Q)uit?", type C to continue. The SYSPROG Main Menu will be displayed. Press RETURN to go to TCL.

- 13. Make sure you are logged on to the SYSPROG account and at TCL.
- 14. Upgrade your application accounts.

If Installing Revision 185Q or Later

Proceed to Step 15.

If Installing a Revision Prior to 185Q

Type:

RUN DICT SYSPROG-PL UPG.NEWAC and press RETURN.

The program displays the names of all application accounts to be upgraded. The following message is displayed.

(C)ontinue or (Q)uit?

Enter C to continue.

The system will now upgrade the Master Dictionary of each user account displayed.

1400 Upgrade Procedures

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15. Check to see if the system verifies. From the SYSPROG account, go to TCL.

Type:

VERIFY-SYSTEM and press RETURN.

The system should now verify. If you see a message indicating a mismatch, call Ultimate Technical Support.

16. Reload ULTICALC.

If you were using UltiCalc before the upgrade, you must re-install it. To do so, log on to the ULTICALC account. At the UltiCalc menu, enter I to select "Install UltiCalc on the system."

17. Create a Boot tape.

A boot tape contains only the programs needed to boot your system. A SYS-GEN contains the programs to boot your system, and it also contains system accounts and system files. Ultimate recommends that you create a boot tape now, and that you create a duplicate SYS-GEN at the time of your next File-Restore.

Follow the instructions in the <u>System Commands Guide</u> and the <u>System Management and</u> <u>Support Guide</u> to create a boot tape and a duplicate SYS-GEN tape.

18. The upgrade is now complete. You may log on and begin your normal work. Keep the file-save from Step 1 from your previous release for future reference.



2.3 METHOD 3: THE SELECTIVE UPGRADE METHOD

-Do not use this method unless you are instructed to do so by Ultimate Technical Support.

NOTE: All users must be off the system until the upgrade is complete.

1. Make sure everyone is logged off the system. Do a <u>complete</u> File-Save of the system.

This step is important in ensuring that you will be able to recover your files in the event of a mishap during the upgrade. Ultimate strongly recommends that you take the time to do this now. Otherwise, you may spend hours trying to recover your files later, in the event of a problem.

2. Now, you must check the File-Save tape(s) to make sure there are no parity errors or bad spots on the tape(s).

This procedure involves doing a selective restore on an account and file that <u>does not exist</u>. This forces the system to read all the tape(s), thereby checking the tape(s) for parity errors. Parity errors are signaled by percent (%) signs on your terminal.

a. Mount Reel #1 of your File-Save tape (or the tape you will use for backup). Make sure the tape is on-line.

b. At TCL, type:

LOGTO SYSPROG and press RETURN.

Then press RETURN again to go to TCL. At TCL, type:

T-ATT n and press RETURN.

Replace "n" with the number of the tape drive on which the tape is mounted. Then, at TCL, type:

SEL-RESTORE SYSPROG-PL * and press RETURN.

You will be prompted:

Account name on tape?

Type a name that you know <u>does not exist</u> on the tape. For example, type TEST-ACCOUNT and press RETURN. Next, you will see the following prompt:

Filename on tape?

Again, type a name that does not exist on the tape. For example, type TEST-FILE and press RETURN.

1400 Upgrade Procedures

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Upgrading An Existing System

- c. The system will begin reading the tape for the account and file names you entered. Watch the terminal for % signs. If the tape is one reel of a multiple-reel set, then you will be prompted to enter Reel #2, then Reel #3, etc., until all reels have been mounted. Of course, the system will not find the account and file names, so when all reels have been mounted, you will see the
 - message:

0 items restored

If you see percent (%) signs on the terminal at any point during this procedure, then your tape(s) contains parity errors, and should not be used. Use another set of tapes to do a File-Save. Then, try this test again. If the entire procedure runs without displaying percent (%) signs, then your tape(s) does not contain parity errors, and may be used to restore your data.

3. Logon to the SYSPROG account and go to TCL. Type:

:WARMSTOP and press RETURN.

The Warmstop procedure brings your system down in a controlled manner, ensuring that the integrity of your data is preserved.

Ignore messages displayed by the :WARMSTOP verb.

- 4. Mount the SYS-GEN tape (or disk), and make sure it is loaded and online.
- 5. Initialize the system (see instructions in Appendix A). The following screen is displayed.

This is the Ultimate Operating System System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart Enter Option(s) or ? for help:

Enter C to see the comparison of the contract of the contract

This option starts a Coldstart.

In the next screen, you are asked for your system serial number.

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Enter your System Serial Number

For example, enter BV0000. If the correct serial number is shown, press RETURN to accept it. You may reenter the correct number if you made a mistake. Then press RETURN after you enter the correct number.

The following screen is displayed.

Upgrading An Existing System

System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any:

Press RETURN.

Do not enter a number. Your SYS-GEN tape should already be loaded. The following screen is displayed.

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XX date >>>

This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

<<< Conversion to the Ultimate Computer Systems of the Ultimate Corp.	em >>> >>>
<	>>>
This is the Cold-Start Procedure Enter <cr> to continue</cr>	
Linking secondary TCL workspaces	
X additional task workspaces initialized	

Enter the time in military format (HH:MM:SS) and press RETURN.

For example, enter 5pm as 17:00:00. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY and press RETURN.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

The system will display several messages. One error message, "Ultimate Operating System does not Verify," is to be expected at this time. The system will verify when the upgrade is complete.

The following screen will be displayed.

>> date time Logon please: <<

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NOTE: Do not use your application programs until you complete the following steps.

- 6. Logon to the SYSPROG account and go to TCL.
- 7. Make sure the SYS-GEN is loaded and on-line. Type **T-REW** and press RETURN to rewind the tape to the beginning of the tape.
- 8. Type:

T-SPACE 19 and press RETURN.

- WARNING: This command will skip 19 files on tape. The names of the files will be displayed on the screen. The last file skipped should be"STAT-FILE." If the last file is not "STAT-FILE," then type **T-REW** and press RETURN to rewind the tape to the beginning of the reel. Then try this step again. If the last file listed is still not "STAT-FILE," do not proceed. Call Ultimate Technical Support.
- 9. At TCL, type:

T-LOAD MD (O,I) and press RETURN.

- 10. Upgrade files in the SYSPROG, WP, ULTILINK, and ULTIMATION accounts.
 - a. Make sure the SYS-GEN is loaded and on-line.
 - b. Make sure you are logged on to the SYSPROG account and at TCL.
 - c. Type:
 - **UPG-REV** and press RETURN.
 - d. The words "END OF FILE" will be listed several times on your screen. Then the following message is displayed.



Upgrading An Existing System

Press RETURN if the last filename displayed is "DICT MD."

If the last file name displayed is not "DICT MD," enter ABORT. You will return to TCL. Do not proceed. Call Ultimate Technical Support.

Once you press RETURN, the program displays the names of all application accounts to be upgraded. At the prompt "(C)ontinue or (Q)uit?", type C to continue. The SYSPROG Main Menu will be displayed. Press RETURN to go to TCL.

11. Upgrade your application accounts.

If Installing Revision 185Q or Later

Proceed to Step 12.

If Installing a Revision Prior to 185Q

At TCL, type:

RUN DICT SYSPROG-PL UPG.NEWAC and press RETURN.

The program displays the names of all application accounts to be upgraded. The following message is displayed.

(C)ontinue or (Q)uit?

Enter C to continue.

The system will now upgrade the Master Dictionary of each user account.

12. Check to see if the system verifies. From the SYSPROG account, go to TCL.

Type:

VERIFY-SYSTEM and press RETURN.

The system should now verify. If you see a message indicating a mismatch, call Ultimate Technical Support.

- 13. Remove the SYS-GEN tape from your system.
- 14. Create a Boot tape.

A boot tape contains only the programs needed to boot your system. A SYS-GEN contains the programs to boot your system, and it also contains system accounts and system files. Ultimate recommends that you create a boot tape now, and that you create a duplicate SYS-GEN at the time of your next File-Restore.

Follow the instructions in the <u>System Commands Guide</u> and the <u>System Management and</u> <u>Support Guide</u> to create a boot tape and a duplicate SYS-GEN tape.

15. The upgrade is now complete. You may log on and begin your normal work. Keep the file-save from Step 1 from your previous release for future reference.

Ultimate recommends that you do a file-save and full file-restore as soon as possible.

	END OF UPGRADE METHOD 3	
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3 FORMATTING A DISK DRIVE

The Diagnostics Monitor is run off-line. This means that you are not able to run your system in the normal mode. Only line zero is activated. The Ultimate Diagnostics Monitor has two modes of operation:

1. Formatting

2. Diagnostics

This document will only discuss the option for formatting your disk (consult the <u>Operations and</u> <u>Maintenance Guide</u> for more detailed information).

3.1 FORMATTING A DISK DRIVE FOR 1410 SYSTEMS

Follow the instructions in this section if you are formatting a disk drive for 1410 systems. If you want to format a disk drive for a 1420 or 1430 system, refer to Section 3.2.

WARNING: If you format a disk, you will destroy all data on that disk. If you wish to save the data, perform a File-Save first. If you upgrade to Revision 185S or later, you <u>must</u> format your disk drives.

- 1. Make sure you followed the Booting instructions in Appendix A.
- 2. At the System Startup Options menu, type D.

This will load the Diagnostics Monitor. The following screen is displayed.

ST506 disc sub-system Format and disc diagnostic utility (F)ormat a drive (B)ad sector map read (R)ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger module (E)xit to options menu Select option:

Type F to select "Format a drive."

A screen similar to the following is displayed.

ST506 disc sub-system Format and disc diagnostic utility

(F)ormat a drive
(B)ad sector map read
(R)ead disc parameters (vtoc)
(W)rite disc parameters (vtoc)
(D)rive diagnostics menu
(S)ystem debugger module
(E)xit to options menu

Select option: F

Enter drive number (0-2)

Enter the number of the drive (0, 1, or 2) that you want to format.

The following screen is displayed.



Type Y to continue the formatting process. This will destroy all previous data on the disc.

The following screen is displayed.

ST506 disc sub-system Format and disc diagnostic utility

(F)ormat a drive
(B)ad sector map read
(R)ead disc parameters (vtoc)
(W)rite disc parameters (vtoc)
(D)rive diagnostics menu
(S)ystem debugger module
(E)xit to options menu

Select option: **F**

Enter drive number (0-2).. 0 Enter (Y)es to continue... Y Use bad sector map (Y/N)

Enter:

Y to make sure previous bad tracks are marked defective N if you don't want to save previously marked bad tracks

CAUTION: If you are formatting a <u>new</u> drive, you must enter N at this prompt. Then, at any time in the future when formatting the drive, you should enter Y.

The following screen is displayed.

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ST506 disc sub-system Format and disc diagnostic utility

(F)ormat a drive
(B)ad sector map read
(R)ead disc parameters (vtoc)
(W)rite disc parameters (vtoc)
(D)rive diagnostics menu
(S)ystem debugger module
(E)xit to options menu

Select option: F

Enter drive number (0-2).. 0 Enter (Y)es to continue... Y Use bad sector map (Y/N).. N

Verifying cyl:xxxx trk:xx Writing map Writing VTOC

Once these messages have been displayed, then the formatting process is complete. Make sure you format all drives on your system.

NOTE: Several error messages may occur during the formatting process. This is to be expected. Most errors that appear will be relocated automatically. However, if the message "Unrecoverable disk error" appears, call Ultimate Technical Support.

3.2 FORMATTING A DISK DRIVE FOR 1420 AND 1430 SYSTEMS

Follow the instructions in this section to format a disk drive for 1420 and 1430 systems.

WARNING: If you format a disk, you will destroy all data on that disk. If you wish to save the data, perform a File-Save first. If you upgrade to Revision 185S or later, you must format your disk drives.

- 1. Make sure you have followed the Booting instructions in Appendix A.
- 2. At the System Startup Options menu, type D.

This will load the Diagnostics Monitor. The following screen is displayed.

Diagnostic monitor menu

(F)ormat utility menu
(D)isc diagnostics menu
(H)ardware configuration
(B)inary save and restore
(S)ystem debugger utility
e(X)it to options menu

Select option:

Type F to select "Format utility menu."

The following screen is displayed.

Format utility menu (rev 3)

(F)ormat disc (data erased)
(S)how manufacturers defect log
(E)nter manufacturers defect log
(D)isplay defective sector log
(R)elocate defective sector
e(X)it to diagnostic monitor

Select option:

Type F to select "Format disc."

The following screen is displayed.

Format utility menu (rev 3)

(F)ormat disc (data erased)
(S)how manufacturers defect log
(E)nter manufacturers defect log
(D)isplay defective sector log
(R)elocate defective sector
e(X)it to diagnostic monitor

Select option: F

Enter drive number (0-5)

Enter the number of the drive (0, 1, 2, 3, 4, or 5) that you want to format.

The following screen is displayed.

Format utility menu (rev 3) (F)ormat disc (data erased) (S)how manufacturers defect log (E)nter manufacturers defect log (D)isplay defective sector log (R)elocate defective sector e(X)it to diagnostic monitor Select option: F Enter drive number (0-5) 0 Enter (Y)es to continue

Enter Y to continue the formatting process. This will destroy all previous data on the disc.

The following screen is displayed.

Format ut	ility menu (rev 3)	
(F)om	nat disc (data erased)	
(S)hov	w manufacturers defect log	
(E)nte	r manufacturers defect log	
(D)isp	lay defective sector log	
(R)elo	cate defective sector	
e(X)it	to diagnostic monitor	
Select opt	ion: F	
Enter driv	re number (0-5) 0	
Enter (Y)	es to continue Y	
Formattin	g	
cyl:xxx tr	k:xx	
Verifying	•••	
cvl:xxx t	rk:xx sec:xx	

Once these messages have been displayed, then the formatting process is complete. Make sure you format all drives on your system.

NOTE: Several error messages may occur during the formatting process. This is to be expected. Most errors that appear will be relocated automatically. However, if the message "Unrecoverable disk error" appears, call Ultimate Technical Support.

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APPENDIX A: BOOTING THE SYSTEM

Throughout this manual, you will be asked to "boot" or "initialize the system." The following steps describe the procedure.

- 1. Make sure the AC PRESENT light is ON. (Refer to the POWERING ON instructions in Section 2, of the <u>1400 Operations and Maintenance Manual</u>.)
- 2. Load the Ultimate SYS-GEN tape. (Refer to the tape loading instructions in Section 4, of the 1400 Operations and Maintenance Manual.)
- 3. If both the AC PRESENT and DC ON lights are on, press the RESET button. If only the AC PRESENT light is on, press the POWER ON button. The following screen is displayed.

This is the Ultimate Operating System	
System Startun Ontions:	
System Startup Options.	
(C)oldstart	
(D)iagnostic Monitor	
(F)ile Restore	

Refer to Section 6, of the <u>1400 Operations and Maintenance Manual</u> for information on each of the System Startup Options.

NOTE: If the system was :WARMSTOPPED prior to being powered off, refer to Section 6.4 of the <u>1400 Operations and Maintenance Manual</u> to WARMSTART the system. If the system was not :WARMSTOPPED prior to being powered off, then refer to Section 6.1 of the <u>1400</u> <u>Operations and Maintenance Manual</u> to COLDSTART the system.

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APPENDIX B: LIST OF ACCOUNTS ON THE SYS-GEN

The general format of the SYS-GEN tape is as follows:

SYSTEM BOOT 1 **SYSTEM BOOT 2** COLD LOAD ABS LOAD FILE DATA (including the following accounts:) SYSTEM SYSTEM-ERRORS **BLOCK-CONVERT** SECURITY PROCLIB **SYSLIB** SYSTEM (Synonym) SYSPROG ERRMSG SPSYM GAMES TRAINING ACC SYSTEM (Q-pointers, etc.) **T-DUMP of STAT-FILE**

Several files are T-DUMPed at the end of the SYS-GEN tape. These files are used for the selective upgrade method, and for updating the WP, ATP, ULTILINK, and ULTIMATION accounts. To position the tape at the first file, do 19 T-FWDs from load point. The files are dumped as follows.

SYSPROG MD DICT NEWAC ERRMSG DICT TERMDEF TERMDEF CONVERSION,DOC CONVERSION,PGM CONVERSION,PROC CONVERSION,TABLE OSYM PSYM OBJECT M1.OSYM M2.PSYM M2.OSYM DICT STAT-FILE DICT BLOCK-CONVERT USER-MODES USER-MODES,SOURCE DICT SYSPROG-PL DICT ACC DICT SYS-ERRS DICT DOCUMENT DOCUMENT,DELTA DOCUMENT,UPG DOCUMENT,SYSTEM DICT REALLOC-FILE WP Master Dictionary DICT WP-PROGS WP-PROGS,TABLES DICT SPSYM SPSYM,DF DICT OA.PROG OA.PROC ULTIMATION MD account-save of WP account-save of ATP account-save of ULTILINK account-save of ULTILINK

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Ultimate Technical Support Bug/Suggestion Form			
Bug Key Priority	Date Received		
For Ultin	nate Use Only		
Category Affected: Systems, Applications, Other			
Release Affected	Date Submitted		
Your System No.	Contact Name		

Detailed Description

1

System Configuration (memory size, number of ports, types of terminals and printers, etc.)

Response/Status

Date _

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FROM:

Company:		
Address:		
City:	State:	Zip:

Fold and tape. Please do not staple.

Place Stamp Here 1

THE ULTIMATE CORP. 717 Ridgedale Avenue East Hanover, NJ 07936 Attn: Quality Assurance

Fold and tape. Please do not staple.
READER COMMENT FORM

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Ultimate welcomes your comments. If you find a problem or error in this manual, or can suggest an improvement, please complete this form. Please attach additional sheets, if necessary.

Name of Manual:			
Document No.:		Date:	
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FROM:

Name:	 System Number: _		
Company	 	1 <u></u>	
Address:			
City:	 State:	Zip:	

Fold and tape. Please do not staple.

Place Stamp Here .

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THE ULTIMATE CORP. 717 Ridgedale Avenue East Hanover, NJ 07936 Attn: Documentation Manager

Fold and tape. Please do not staple.

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THE ULTIMATE CORP. 717 RIDGEDALE AVENUE, EAST HANOVER, NEW JERSEY 07936 (201) 887-9222 TWX 710-996-5862 Telecopier (201) 887-6139

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1400 Series Upgrade Procedures

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HOW TO USE THIS MANUAL

The procedures in this document explain how to upgrade from your current Ultimate software to the latest software release. This document also includes instructions for installing Ultimate on a new system.

These procedures involve your SYS-GEN tape. The SYS-GEN is used to generate or reboot your Ultimate system.

Although the SYS-GEN tape can be used to generate or boot all Ultimate systems, this document is intended for Honeywell 1400 Series systems only. If you have any problems, contact Ultimate Technical Support at (201) 887-2721.

The following topics are discussed in this manual:

- Section 1 describes the procedure for INSTALLING ULTIMATE ON A NEW SYSTEM. This section should be followed if your Ultimate system is new, and does not contain any software.
- Section 2 describes three methods of UPGRADING AN EXISTING SYSTEM. Read the introduction to this section to determine which method you should use. Then follow the appropriate procedure.
- Section 3 explains the procedures for FORMATTING A DISK DRIVE.
- Appendix A contains instructions for **BOOTING THE SYSTEM**. Refer to these instructions whenever you are asked to "boot or initialize the system."
- Appendix B contains a LIST OF ACCOUNTS ON THE SYS-GEN. This list may help you locate a particular account.

The end of this document contains a <u>Reader Comment Form</u> and a <u>Bug Report Form</u>. If you find a problem or error in this guide or with the system software, please complete the appropriate form. Then fold and tape the form so that Ultimate's address appears on the outside, and send it to The Ultimate Corp.

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1 INSTALLING ULTIMATE ON A NEW SYSTEM

Follow the instructions below to load the ULTIMATE system software onto your new system. These instructions can only be performed from the line zero terminal (console).

- 1. Begin by formatting your disk drive(s). First, you must power on the system.
 - A. Locate the main POWER switch on the back and turn to the ON position. If you have a dualcabinet system, be sure to turn on both POWER switches.
 - B. Make sure the AC PRESENT light is lit.
- 2. Boot the system as instructed below.
 - A. Load the Ultimate SYS-GEN tape. (Refer to the tape loading instructions in Section 4 of the Operations and Maintenance manual.)
 - B. If both the AC PRESENT and DC ON lights are on, press the RESET button. If only the AC PRESENT light is on, press the POWER ON button. The following screen is displayed.

This is the Ultimate Operating System

System Startup Options:

(C)oldstart (D)iagnostic Monitor (F)ile Restore (W)armstart

Enter option:

- C. Refer to Section 6 of the <u>1400 Operations and Maintenance</u> manual for information on each of the System Startup Options.
- 3. If your disk(s) are new or have disk errors, format your disk(s). Otherwise, proceed to the next step. Section 3 of this manual explains formatting procedures.

4. If you formatted your disk(s), boot the system. The previous screen is displayed.

If you did not format your disk, the previous screen should already be displayed.

At the prompt to select an option, type F.

This initiates a complete File-Restore. You will be doing a complete file-restore with the SYS-GEN tape only!

Information about your disc configuration is displayed. A sample screen is shown below.

Disc Configuration

chan set name # of FF20 Ultimate 1400 1 1 L 2000# time date ABS ULT REL XX Tape 0 attached Block size: 16384

In the next screen, you will be asked for your system serial number.

Tape 0 attached Block size: 16384

System serial # is presently

Enter system serial # or <CR> to accept

Page 1-2

Enter your System Serial Number

For example, enter BV0000. If the correct serial number is shown, press RETURN to accept it.

The following screen is displayed.

Tape 0 attached Block size: 16384

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Press RETURN if the number is correct.

You may reenter the correct number if you made a mistake. Press RETURN after you enter the correct number.

The following screen is displayed.

Tape 0 attached Block size: 16384

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Mount ABS tape and enter number of files to skip, if any:

Press RETURN.

Do not enter a number. (Your SYS-GEN tape should already be mounted.) The following screen is displayed.

System serial # is presently BVxxxx Enter system serial # or <CR> to accept Mount ABS tape and enter number of files to skip, if any: XX-XXX XXXX-XXX XXXX-XXX XXXX-XXX XXXX-XXX Spooler started Mount DATA tape and press RETURN

WARNING: Do not mount your File-Save tape. Your SYS-GEN tape should already be mounted.

Press RETURN.

The following screen is displayed.

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Installing Ultimate on a New System

Mount ABS tape and enter number of files to skip, if any: XX-XXX XXXX-XXX XXXX-XXX XXXX-XXX Spooler started Mount DATA tape and press RETURN L 2000# time date DATA SYS-GEN Seq# of this data tape: 0 0 0 0 Is this the right tape (Y/N)?

Type Y and press RETURN.

The File-Restore will begin. Each file name on the tape will be listed on your screen. When all files have been restored, the following screen is displayed.

Update/transaction tapes (Y/N)?

Type N and press RETURN.

The following screen is displayed.

Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0

date time Logon Please:

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>>

This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

Enter the time in military format (HH:MM:SS) and press RETURN.

For example, enter 5pm as 17:00:00. The following screen is displayed.

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1400 Upgrade Procedures

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This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY and press RETURN.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

The system will display several messages. If there are any error messages (i.e.: System does not verify), call Ultimate Technical Support immediately.

The following screen is displayed.

Do You Wish to Start Parallel Printer 0 (<CR>=NO, Y=YES)?

If you type Y to start a parallel printer, the following screen is displayed.

SP-STARTLPTR 0,0,1,P0
[1118]

The printer control block has been initialized. The correct paper and LPI settings must have been previously set to insure proper printing.

date time Logon please:

If you press RETURN, the following screen is displayed.



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1400 Upgrade Procedures

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- 5. Load the WP (UltiWord), ULTILINK, ATP, and ULTIMATION accounts.
 - If Installing Revision 185Q or later

Logon to the SYSPROG account. Press RETURN at the SYSPROG Main Menu to display the TCL prompt. At the TCL prompt, type:

RESTORE-ALL-ULTIS and press RETURN.

In a few minutes, your UltiWord, ULTILINK, ATP, and ULTIMATION accounts will be installed on your system. When this process is complete, the TCL prompt is displayed.

If Installing a Revision Prior to 185Q

- A. Logon to the SYSPROG account.
- B. Mount your SYS-GEN tape. Make sure it is at load point and on-line.
- C. From the SYSPROG main menu, select "Load WP account from SYS-GEN tape." The program will search for and load the WP account from the SYS-GEN tape.
- D. When the WP account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTILINK account from SYS-GEN tape." The program will search for and load the ULTILINK account from the SYS-GEN tape.
- E. When the ULTILINK account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ATP account from SYS-GEN tape." The program will search for and load the ATP account from the SYS-GEN tape.
- F. When the ATP account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTIMATION account from SYS-GEN tape." The program will search for and load the ULTIMATION account from the SYS-GEN tape.
- 6. Create a duplicate SYS-GEN.

Ultimate recommends that you create one or more copies of the SYS-GEN for backup, in case your original SYS-GEN is missing or damaged.

- A. Remove the SYS-GEN, and mount a write-enabled blank tape to be used for the duplicate SYS-GEN.
- B. At TCL in the SYSPROG account, type:

SYS-GEN and press RETURN.

The duplicate copy of the SYS-GEN will be created. When the duplicate is complete, unload the duplicate SYS-GEN, label it, and store it in a safe place. Repeat Steps A and B to make as many copies of the SYS-GEN as you prefer.

7. You may now begin to load your application software.

2 UPGRADING AN EXISTING SYSTEM

Use one of the following three upgrade methods:

- 1. FILE-RESTORE FROM SYS-GEN TAPE METHOD
- 2. FILE-RESTORE FROM FILE-SAVE TAPE METHOD
- 3. SELECTIVE UPGRADE METHOD

Only use the Selective Upgrade Method if you are instructed to do so by the Ultimate Technical Assistance Center (TAC).

FROM RELEASE	TO RELEASE	USE METHOD
any release prior to 195B	any 195 release	1
any release prior to 185	any release	1
any 185 release	Revisions 185S through 186C	1 or 2 (You will be instructed to format your disks. Make sure you have a File-Save.)

- NOTE: If you use RPL or UltiCalc, make sure you have a new version of the SYSPROG-S account for RPL, and UltiCalc Version 3.1. (If not, call Ultimate's Administration dept. at 201-887-9222 to order them.)
- WARNING: User Exits should only be in frames 400 to 599. If you have User Exits in frames other than 400 to 599, they may cause problems during the upgrade.

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2.1 METHOD 1: THE FILE-RESTORE FROM SYS-GEN TAPE METHOD

1. Do a <u>complete</u> File-Save of the system.

You will need the File-Save to restore your own accounts later in the upgrade. Follow the instructions in the <u>Operations and Maintenance Guide</u> to do a File-Save.

2. Now, you should check the File-Save tape to make sure there are no parity errors.

This procedure involves doing a selective restore on an account and file that <u>does not exist</u>. This forces the system to read all of the tape(s), thereby checking the tape(s) for parity errors. Parity errors are signaled by the message "Parity error! (A)ccept (R)etry (Q)uit."

a. Mount tape #1 of your File-Save (or the tape you will use for backup). Make sure the tape is online.

b. At TCL, type

LOGTO SYSPROG and press RETURN.

Then press RETURN again to go to TCL. At TCL, type

T-ATT *n* and press RETURN.

Replace *n* with the number of the tape drive on which the tape is mounted. Then, at TCL, type

SEL-RESTORE SYSPROG-PL * and press RETURN.

You will be prompted:

Account name on tape?

Type a name that you know <u>does not exist</u> on the tape. For example, type TEST-ACCOUNT and press RETURN. Next, you will see the following prompt:

Filename on tape?

Again, type a name that <u>does not exist</u> on the tape. For example, type TEST-FILE and press RETURN.

c. The system will begin reading the tape for the account and file names you entered. If the tape is one of a multiple tape set, then you will be prompted to enter tape #2, then tape #3, etc., until all tapes have been mounted. Of course, the system will not find the account and file names so, when all tapes have been mounted, you will see the message:

0 items restored

If you see the message "Parity error! (A)ccept (R)etry (Q)uit" on the terminal at any point during this procedure, then your tape(s) contains parity errors, and should not be used. Press Q to quit. Use another set of tapes to do a File-Save. Then try this test again. If the entire procedure runs without displaying the error message, then your tape(s) does not contain parity errors.

- 3. Make sure everyone is logged off the system. Then log on to the SYSPROG account. At TCL, type
 - :WARMSTOP and press RETURN.

The Warmstop procedure brings your system down in a controlled manner, ensuring that the integrity of your data is preserved.

Ignore messages displayed by the :WARMSTOP verb.

- 4. Mount the new SYS-GEN tape, and bring to load point.
- 5. Boot the system.
- 6. Format your disk(s). Section 3 of this manual explains formatting procedures.
- 7. Boot the system. The following screen will be displayed.

This is the Ultimate Operating System

System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart

Enter Option(s) or ? for help:

Page 2-3

Type F

This initiates a complete File-Restore. You will be doing a complete file-restore with the SYS-GEN tape only!

Information about your disc configuration is displayed. A sample screen is shown following.

Disc Configuration chan set name # of FFxx ULTIMATE 1400 2 2 L 2000# time date ABS ULT REL XX *185 COLD LOAD FRAMES ~01

In the next screen, you will be asked for your system serial number.

Tape 0 attached Block size: 16384

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

.

Enter your System Serial Number

For example, enter BV0000. If the correct serial number is shown, press RETURN to accept it. You may reenter the correct number if you made a mistake. Then press RETURN after you enter the correct number.

The following screen is displayed.

Tape 0 attached Block size: 16384

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Mount ABS tape and enter number of files to skip, if any:

Press RETURN.

Do not enter a number. Your SYS-GEN tape should already be mounted. The following screen is displayed.

1400 Upgrade Procedures

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System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Mount ABS tape and enter number of files to skip, if any:

XX-XXX XXXX-XXX XXXX-XXX XXXX-XXXX

Spooler started

Mount DATA tape and press RETURN

WARNING: Do not mount your File-Save tape. (Your SYS-GEN tape should already be mounted.)

Press RETURN.

The following screen is displayed.

Mount DATA tape and press RETURN L 2000# time date DATA SYS-GEN Seq# of this data tape: 0 0 0 0 Is this the right tape (Y/N)? Type Y and press RETURN.

The File-Restore will begin. Each filename on the tape will be listed on your screen. When all files have been restored, the following screen is displayed.

Update/transaction tapes (Y/N)?

Type N and press RETURN.

The following screen is displayed.

Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0 date time Logon Please: <<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>> This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

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<<< Welcome to the Ultimate Computer	System >>>
<-< Copyright date The Ultimate Co	orp. >>>
<<< time Release XX Rev XXX date	· >>>
This is the Cold-Start Procedure Enter <cr> to continue</cr>	
Linking secondary TCL workspaces	
X additional task workspaces initialized	
time date	
Time =	

Enter the time in military format (HH:MM:SS) and press RETURN.

For example, enter 5pm as 17:00:00. The following screen is displayed.

This is the Cold-Start Procedure Enter <cr> to continue</cr>
Linking secondary TCL workspaces
X additional task workspaces initialized
time date
Time = 17:00:00 17:00:00 date Date =

, **e**

Enter the date in the following format: MM/DD/YY and press RETURN.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

The system will display several messages. If there are any error messages (such as "System does not verify"), call Ultimate Technical Support immediately.

The following screen is displayed.



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1400 Upgrade Procedures

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If you have a parallel printer, type Y. If you do not have a parallel printer, just press RETURN. The following screen is displayed.

SP-STARTLPTR 0, 0, 1, PO

[1118] The printer control block has been initialized. The correct paper and LPI settings must have been previously set to insure proper printing.

date time Logon please:

You may now log on to the system. If you did not start a parallel printer, the following screen is displayed.

date	time	Logon please:		

8. Load the WP (UltiWord), ULTILINK, ATP, and ULTIMATION accounts. These steps are necessary so that you may create a duplicate SYS-GEN, in Step 9 on the next page.

If Installing Revision 185Q or Later

Logon to the SYSPROG account. Press RETURN at the SYSPROG Main Menu to display the TCL prompt. At the TCL prompt, type:

RESTORE-ALL-ULTIS and press RETURN.

Upgrading An Existing System

In a few minutes, your UltiWord, UltiLink, ATP, and UltiMation accounts will be installed on your system. When this process is complete, the TCL prompt is displayed.

If Installing a Revision Prior to 185Q

- a. Logon to your SYSPROG account.
- b. Mount your SYS-GEN tape. Make sure it is at load point and on-line.
- c. From the SYSPROG main menu, select "Load WP account from SYS-GEN tape." The program will search for and load the WP account from the SYS-GEN tape.
- d. When the WP account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTILINK account from SYS-GEN tape." The program will search for and load the ULTILINK account from the SYS-GEN tape.
- e. When the ULTILINK account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ATP account from SYS-GEN tape." The program will search for and load the ATP account from the SYS-GEN tape.
- f. When the ATP account has been loaded, press RETURN to go back to the SYSPROG main menu. From the menu, select "Load ULTIMATION account from SYS-GEN tape." The program will search for and load the ULTIMATION account from the SYS-GEN tape.
- 9. Create a duplicate SYS-GEN. Ultimate recommends that you create one or more copies for backup, in case your original SYS-GEN is missing or contains errors.
 - a. Remove the SYS-GEN, and load a write-enabled blank tape (or spare formatted disk pack).

b. At TCL on the SYSPROG account, type:

SYS-GEN and press RETURN.

When the duplicate SYS-GEN is complete, unload the tape. Remove the duplicate SYS-GEN, label it, and store it in a safe place. Repeat this step to make as many copies as you prefer.

NOTE: Do not use your application programs until you complete the following steps.

10. You are now ready to restore your own accounts.

a. Logon to the SYSPROG account and go to TCL.

b. If you are upgrading from Rev 123 or later, type:

T-ATT and press RETURN.

If you are upgrading from a release prior to Rev 123, type:

T-ATT (O and press RETURN.

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This indicates that you are restoring from an "old" style tape.

c. Mount the first reel of your File-Save from Step 1. Bring it to load point and on-line.

There are two methods to use in restoring your accounts. These are by using either the ACCOUNT-RESTORE verb or the ALL-ACCOUNT-RESTORE verb. The ALL-ACCOUNT-RESTORE will not work if your FILE-SAVE was not made from the FILE-SAVE PROC supplied by The Ultimate Corp. If it was made from other sources, you must use the ACCOUNT-RESTORE verb.

If using the ALL-ACCOUNT-RESTORE method, proceed to Step d. If using the ACCOUNT-RESTORE method, proceed to Step e.

d. <u>ALL-ACCOUNT-RESTORE method:</u>

If installing Revision 185Q or later, type:

ALL-ACCOUNT-RESTORE and press RETURN.

If installing a Revision prior to 185Q, type:

RUN DICT SYSPROG-PL ALL-ACCOUNT-RESTORE

and press RETURN.

This program will restore all application accounts not already on the system, including the ULTIMATION account. When completed, go to Step 11. (Note that you cannot use update/transaction tapes with this method.)

e. ACCOUNT-RESTORE method:

Type:

.*

ACCOUNT-RESTORE ACCOUNTNAME and press RETURN.

Use this command to individually restore all application accounts not on the system. Follow this procedure for each account you are restoring. Make sure you use this procedure to restore the ULTIMATION, ULTILINK, and WP accounts, if you were using them before the upgrade.

11. Make sure you are logged on to the SYSPROG account and at TCL.

12. Type:

RUN DICT SYSPROG-PL UPG.NEWAC and press RETURN.

This program will display names of all application accounts to be upgraded. When all names are displayed, you will then be prompted with:



Type C.

This program will upgrade the Master Dictionary of each application account displayed.

13. UltiWord Upgrade for Rev 110x, 120x, 121x, and 122x.

If UltiWord <u>was not</u> on your system before the upgrade, and you loaded it in Step 8, then go to Step 16.

If you were using WP prior to upgrading to this release, and you were:

Previously on Rev 110x, go to Step a.

Previously on Rev120x, 121x, or 122x, logon to the WP account, go to TCL, and go to Step c.

Previously on Rev 123x, 124x, 125x, 130x, 135x, 140x, 150x, 160x, or 170x or later, go to Step 14.

Upgrading An Existing System

- a. Logon to the WP account and go to TCL.
- b. Type:

<u>, .</u>

CREATE-FILE DATA WP-PROGS, TABLES 3,1

and press RETURN.

c. Type:

CREATE-FILE DATA WP-PROGS, USER 31,1

and press RETURN.

d. Make sure the SYS-GEN is at load point and on-line.

- e. Logon to the SYSPROG account and go to TCL.
- f. Upgrade the UltiWord account.

If Installing Revision 185Q or Later

Type:

UPG-ULTIS and press RETURN.

This program upgrades the files in the new UltiWord, UltiMation, UltiNet, and UltiLink accounts.

If Installing a Revision Prior to 185Q

Type:

UPG-WP and press RETURN.

This program upgrades the files in the WP account.

g. Logon to WP.

The Conversion program will be called up automatically. The following screen is displayed.

DO YOU WANT TO CONTINUE WITH THE CONVERSION (Y/N):

Type Y

- to initiate the conversion.
- h. Go to Step 15.
- 14. UltiWord Upgrade for Rev 123x, 124x, 125x, 130x, 135x, 140x, 150x, 160x, 170x or later.
 - a. Make sure the SYS-GEN is at load point and on-line.
 - b. Make sure you are logged on to the SYSPROG account and at TCL.
 - c. Upgrade the WP account.

If Installing Revision 185Q or Later

Type:

UPG-ULTIS and press RETURN.

This program upgrades the files in the new UltiWord, UltiMation, UltiNet, and UltiLink accounts.

If Installing a Revision Prior to 185Q

Type:

UPG-WP and press RETURN.

This program upgrades the new WP account.

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15. Enable WP in user accounts.

Logon to the WP account.

The Word Processor Main Menu is displayed, as shown following.

***** The Ultimate Corp. ***** ** WORD PROCESSING **** ***** Document Manager ***** Main Menu YOUR USER NAME: DOCUMENT NAME: (C) opy documents (D)elete user (E)dit/Enter (L)ist (N)ew (P)rint (S)et up user account (U)tility (V)iew e(X)it Enter option wanted:

Type S.

This selects the program to set up user accounts. The following screen is displayed.

Upgrading An Existing System



Enter the user account name you wish upgraded, and press RETURN.

The following screen is displayed.

 ***** The Ultimate Corp. ***** ***** WORD PROCESSING ***** ***** Document Manager ***** Set up USER WP Menu
YOUR USER NAME: _ DOCUMENT NAME:
Enter name of account to set up or <edit> The master dictionary of XXXX contains the following</edit>
These will be overwritten if Y is answered. (Y)es or <edit></edit>

Type Y.

You will now be able to use WP from this account. The program will update all necessary verbs and Q-pointers for the Ultimate Word Processor. Repeat these steps for each account on which you have WP. When complete, go to Step 16.

- **NOTE:** If you get an error message such as "D/CC/CL Pointer Update Rejected," call Ultimate Technical Support.
- 16. Make sure your SYS-GEN tape is loaded and on-line. Upgrade your utilities.

If Installing Revision 185Q or Later

To upgrade the UltiMation, UltiLink, or UltiNet accounts, at TCL in the SYSPROG account, type:

UPG-ULTIS and press RETURN.

Then, load in any utilities of your own that you may store in the SYSPROG account.

Upgrading An Existing System

If Installing a Revision Prior to 185Q

Load in any utilities of your own that you may store in the SYSPROG account.

17. If you are upgrading from a release prior to Rev 130 or if you use the DICT ACC for Logon purposes (such as for setting the baud rate or terminal type), you will have to do a selective restore of the DICT ACC from your File-Save. Follow the steps below.

a. Mount your File-Save and bring it to load point.

b. Logon to SYSPROG and go to TCL.

c. Type:

SEL-RESTORE DICT ACC * (O and press RETURN.

The following screen is displayed.



Type:

ACC and press RETURN.

The following screen is displayed.

>SEL-RESTORE DICT ACC * (O

Account name on tape: ACC

File name:

Type:

DICT ACC and press RETURN.

The selective-restore will begin.

d. After the selective-restore has been completed, type:

RUN DICT SYSPROG-PL ACCCONV and press RETURN.

This program will convert all item IDs in the DICT ACC from a length of two to three.

18. If you store your own items in the TERMDEF file, then you must restore that file from your last file-save. Otherwise, the TERMDEF file will be recopied from the SYS-GEN, and the extra items you added to the file will not be present. Follow the steps below.

a. Mount your File-Save and bring it to load point and on-line.

- b. Logon to SYSPROG and press RETURN to go to TCL.
- c. Type:

SEL-RESTORE TERMDEF * and press RETURN.

The following screen is displayed.



Account name on tape:

Type:

SYSPROG and press RETURN.

The following screen is displayed.



Type:

TERMDEF and press RETURN.

The selective-restore will begin.

When the selective-restore has completed, unload the File Save tape and store it in a safe place.

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If Installing Revision 1850 or later

In addition to restoring your TERMDEF file, type:

UPG-TERMDEF and press RETURN.

Then, proceed to Step 20.

19. Mount the SYS-GEN tape, and bring it to load point and on-line. Then log on to the SYSPROG account. At TCL, type:

UPG-REV and press RETURN.

A list of file names will appear on your screen. Then the following message will appear.

If last file name displayed is 'DICT MD', Enter return Else enter 'ABORT' - 5.C

Press RETURN if the last filename displayed is DICT MD.

If the last filename displayed is not DICT MD, enter ABORT. You will return to TCL. Do not proceed. Call Ultimate Technical Support.

20. Restore your system Q-pointers. If you have any Q-pointers on your system, you must selectivelyrestore them from your file-save tape. System Q-pointers are normally stored at the end of the filesave, so if you have a multiple-tape file-save, the Q-pointers will be stored on the last tape. You must begin the sel-restore from tape 1 of your file-save. Follow the steps below.

a. Mount tape #1 of your File-Save and bring it to load point and on-line.

b. Logon to SYSPROG and press RETURN to go to TCL.

c. Type:

SEL-RESTORE SYSTEM * (N) and press RETURN.

The N option specifies that the file should be identified by its number, not by its name. The following screen is displayed.

```
>SEL-RESTORE SYSTEM * (N)
File #:
```

Type:

1 and press RETURN.

The selective-restore will begin. If you have a multiple-tape File-Save, when the first tape's selective restore is completed, you will be prompted to "Mount Next Reel." Mount the next tape at this time.

When the selective-restore is completed, unload the File Save tape(s), and store in a safe place.

21. Reload UltiCalc.

If you were using UltiCalc before the upgrade, you must re-install UltiCalc. To do so, log on to the ULTICALC account. At the UltiCalc menu, enter I to select "Install UltiCalc on the system."

If you were not using UltiCalc before the upgrade, then go on to Step 22.

22. The upgrade is now complete. You may now log on and begin your normal work. Keep the File-Save from Step 1 from your previous release for future reference.

END OF UPGRADE METHOD 1

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2.2 METHOD 2: THE FILE-RESTORE FROM FILE-SAVE TAPE METHOD

You may use this method if you are upgrading from any 185 revision to Revision 185S or later.

NOTE: All users must be off the system until the upgrade is complete.

1. Do a complete File-Save of the system.

You will need the File-Save to restore your own accounts later in the upgrade. Follow the instructions in the <u>Operations and Maintenance Guide</u> to do a File-Save.

2. Now, you should check the File-Save tape(s) to make sure there are no parity errors.

This procedure involves doing a selective restore on an account and file that <u>does not exist</u>. This forces the system to read all the tape(s), thereby checking the tape(s) for parity errors. Parity errors are signaled by the message "Parity error! (A)ccept (R)etry (Q)uit."

- a. Mount Reel #1 of your File-Save tape (or the tape you will use for backup). Make sure the tape is on-line.
- b. At TCL, type

LOGTO SYSPROG and press RETURN.

Then press RETURN again to go to TCL. At TCL, type

T-ATT *n* and press RETURN.

Replace n with the number of the tape drive on which the tape is mounted. Then, at TCL, type

SEL-RESTORE SYSPROG-PL `* and press RETURN.

You will be prompted:

Account name on tape?

Type a name that you know <u>does not exist</u> on the tape. For example, type TEST-ACCOUNT and press RETURN. Next, you will see the following prompt:

Filename on tape?

Again, type a name that does not exist on the tape. For example, type TEST-FILE and press RETURN.

Upgrading An Existing System

c. The system will begin reading the tape for the account and file names you entered. If the tape is one reel of a multiple-reel set, then you will be prompted to enter Reel #2, then Reel #3, etc., until all reels have been mounted. Of course, the system will not find the account and file names, so when all reels have been mounted, you will see the message:

0 items restored

If you see the message "Parity error! (A)ccept (R)etry (Q)uit" on the terminal at any point during this procedure, then your tape(s) contains parity errors, and should not be used. Press Q to quit. Use another set of tapes to do a File-Save. Then, try this test again. If the entire procedure runs without displaying the message, then your tape(s) does not contain parity errors.

3. Make sure everyone is logged off the system. Then logto the SYSPROG account. At TCL, type

:WARMSTOP and press RETURN.

The Warmstop procedure brings your system down in a controlled manner, ensuring that the integrity of your data is preserved.

Ignore messages displayed by the :WARMSTOP verb.

- 4. Mount the SYS-GEN tape, and make sure it is loaded and on-line.
- 5. Initialize the system (see Appendix A for instructions). The following screen is displayed.

This is the Ultimate Operating System

System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart

Enter Option(s) or ? for help:

- 6. Format your disk(s). Section 3 of this manual explains the formatting process.
- 7. Initialize the system (see instructions in Appendix A). The following screen is displayed.

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This is the Ultimate Operating System System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart

Enter Option(s) or ? for help:

Enter F

This command starts a complete File-Restore.

Information about your disk configuration is displayed. A sample screen is shown below.

Disc Configuration chan set name # of FFxx ULTIMATE 1400 1 1 L 2000# time date ABS ULT REL XX *185 COLD LOAD FRAMES ~01

In the next screen, you are asked for your system serial number.

Tape 0 attached Block size: 16384

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Enter your System Serial Number

For example, enter BV0000. If the correct serial number is shown, press RETURN to accept it. You may reenter the correct number if you made a mistake. Then press RETURN after you enter the correct number.

The following screen is displayed.

Tape 0 attached Block size: 16384

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Mount ABS tape and enter number of files to skip, if any:

Press RETURN.

Do not enter a number. Your SYS-GEN tape should already be mounted. The following screen is displayed.

Tape 0 attached Block size: 16384

System serial # is presently BVxxxx

Enter system serial # or <CR> to accept

Mount ABS tape and enter number of files to skip, if any:

XX-XXX XXXX-XXX XXXX-XXX XXXX-XXXX

Spooler started

Mount DATA tape and press RETURN

Type U.

You will see the message "Rewinding..." on your screen. When the SYS-GEN tape is finished rewinding, the green light on the tape drive will go out, and you will be prompted to "Mount DATA tape and press RETURN" again.

Unload the SYS-GEN tape. Then mount the first reel (or pack) of the File-Save tape (or disk), and make sure it is loaded and on-line.

Press RETURN.

If you have a multiple-reel File-Save, you will be prompted at the end of each reel to mount the next reel.

The following screen is displayed.

Mount DATA tape and press RETURN L2000# time date DATA File-Save Seq# of this data tape: 0 0 0 0 Is this the right tape (Y/N)?

Check the tape label displayed to verify that this is your most recent file-save tape (or disk). If it is the most recent file-save, enter Y and press RETURN.

The File-Restore will begin. Each filename on the tape will be listed on your screen. When all files have been restored, the following screen is displayed.

Update/transaction tapes (Y/N)?

Enter N and press RETURN.

The following screen is displayed.

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Update/transaction tapes (Y/N)? N Saving Monitor Linking workspace for line 0

date time Logon please:

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XX date >>>

This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

Enter the time in military format (HH:MM:SS) and press RETURN.

For example, enter 5pm as 17:00:00. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY and press RETURN.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue

Linking secondary TCL workspaces

X additional task workspaces initialized

time date

Time = 17:00:0017:00:00 date Date = 02/03/8617:00:00 03 Feb 1986

The system will display several messages. One error message, "Ultimate Operating System does not Verify," is to be expected at this time. The system will verify when the upgrade is complete.

The following screen will be displayed.

Page 2-31

<<<Verifying software>>> System software verified

Do You Wish to Start Parallel Printer 0 (<CR>=NO, Y=YES)?

If you have a parallel printer, type Y. If you do not have a parallel printer, just press RETURN. The following screen is displayed.

SP-STARTLPTR 0, 0, 1, P0
[1118]

The printer control block has been initialized. The correct paper and LPI settings must have been previously set to insure proper printing.

date time Logon please:

You may now log on to the system. If you did not start a parallel printer, the following screen is displayed.



NOTE: Do not use your application programs until you complete the following steps.

Upgrading An Existing System

- 8. Make sure you are logged on to the SYSPROG account and at TCL.
- 9. Mount the SYS-GEN, and make sure it is loaded and on-line. Type

T-ATT *n* and press RETURN.

Replace n with the number of the tape drive on which the SYS-GEN is mounted. Then, to rewind the tape to the beginning, type

T-REW and press RETURN.

10. Upgrade the Master Dictionary of SYSPROG. Type

T-SPACE 19 and press RETURN.

- WARNING: This command skips 19 files on tape. The names of the files will be displayed on the screen. If the last file listed is not the "STAT-FILE," then type **T-REW** and press RETURN to rewind the tape to the beginning of the reel. Then try this step again. If the last file listed is still not "STAT-FILE," do not proceed. Call the Ultimate TAC.
- 11. Type

T-LOAD MD (O,I) and press RETURN.

12. Upgrade files in the SYSPROG, WP, ULTILINK, and ULTIMATION accounts.

a. Make sure the SYS-GEN is loaded and on-line.

b. Make sure you are logged on to the SYSPROG account and at TCL.

c. Type

UPG-REV and press RETURN.

d. If you are upgrading to Revision 195B or later, skip to Step 15.

The words "END OF FILE" will appear several times on your screen. Then the following message is displayed.

If last file name displayed is 'DICT MD', Enter return

Else enter 'ABORT'

Page 2-33

Press RETURN if the last filename displayed is "DICT MD."

If the last file name displayed is not "DICT MD," enter ABORT. You will return to TCL. <u>Do not proceed</u>. Call the Ultimate TAC.

Once you press RETURN, the program displays the names of all application accounts to be upgraded. At the prompt "(C)ontinue or (Q)uit?", type C to continue. The SYSPROG Main Menu will be displayed. Press RETURN to go to TCL.

- 13. Make sure you are logged on to the SYSPROG account and at TCL.
- 14. Upgrade your application accounts.

If Installing Revision 185Q or Later

Proceed to Step 16.

If Installing a Revision Prior to 185Q

Туре

RUN DICT SYSPROG-PL UPG.NEWAC and press RETURN.

15. The program displays the names of all application accounts to be upgraded. The following message is displayed.

(C)ontinue or (Q)uit

Enter C to continue.

The system will now upgrade the Master Dictionary of each user account displayed.

16. Check to see if the system verifies. From the SYSPROG account, go to TCL.

Туре

VERIFY-SYSTEM and press RETURN.

The system should now verify. If you see a message indicating a mismatch, call the Ultimate TAC.

17. Reload ULTICALC.

If you were using UltiCalc before the upgrade, you must re-install it. To do so, log on to the ULTICALC account. At the UltiCalc menu, enter I to select "Install UltiCalc on the system."

18. Create a Boot tape.

A boot tape contains only the programs needed to boot your system. A SYS-GEN contains the programs to boot your system, and it also contains system accounts and system files. Ultimate recommends that you create a boot tape now, and that you create a duplicate SYS-GEN at the time of your next File-Restore.

Follow the instructions in the <u>System Commands Guide</u> and the <u>System Management and</u> <u>Support Guide</u> to create a boot tape and a duplicate SYS-GEN tape.

19. The upgrade is now complete. You may log on and begin your normal work. Keep the file-save from Step 1 from your previous release for future reference.

END OF UPGRADE METHOD 2

2.3 METHOD 3: THE SELECTIVE UPGRADE METHOD

Do not use this method unless you are instructed to do so by the Ultimate TAC.

NOTE: All users must be off the system until the upgrade is complete.

1. Make sure everyone is logged off the system. Do a <u>complete</u> File-Save of the system.

This step is important in ensuring that you will be able to recover your files in the event of a mishap during the upgrade. Ultimate strongly recommends that you take the time to do this now. Otherwise, you may spend hours trying to recover your files later, in the event of a problem.

2. Now, you should check the File-Save tape(s) to make sure there are no parity errors.

This procedure involves doing a selective restore on an account and file that <u>does not exist</u>. This forces the system to read all the tape(s), thereby checking the tape(s) for parity errors. Parity errors are signaled by the message "Parity error! (A)ccept (R)etry (Q)uit."

- a. Mount Reel #1 of your File-Save tape (or the tape you will use for backup). Make sure the tape is on-line.
- b. At TCL, type

LOGTO SYSPROG and press RETURN.

Then press RETURN again to go to TCL. At TCL, type

T-ATT *n* and press RETURN.

Replace n with the number of the tape drive on which the tape is mounted. Then, at TCL, type

SEL-RESTORE SYSPROG-PL * and press RETURN.

You will be prompted:

Account name on tape?

Type a name that you know <u>does not exist</u> on the tape. For example, type TEST-ACCOUNT and press RETURN. Next, you will see the following prompt:

Filename on tape?

Again, type a name that does not exist on the tape. For example, type TEST-FILE and press RETURN.

Upgrading An Existing System

c. The system will begin reading the tape for the account and file names you entered. If the tape is one reel of a multiple-reel set, then you will be prompted to enter Reel #2, then Reel #3, etc., until all reels have been mounted. Of course, the system will not find the account and file names, so when all reels have been mounted, you will see the message:

0 items restored

If you see the message "Parity error! (A)ccept (R)etry (Q)uit" on the terminal at any point during this procedure, then your tape(s) contains parity errors, and should not be used. Press Q to quit. Use another set of tapes to do a File-Save. Then, try this test again. If the entire procedure runs without displaying the message, then your tape(s) does not contain parity errors.

3. Logon to the SYSPROG account and go to TCL. Type

:WARMSTOP and press RETURN.

The Warmstop procedure brings your system down in a controlled manner, ensuring that the integrity of your data is preserved.

Ignore messages displayed by the :WARMSTOP verb.

- 4. Mount the SYS-GEN tape (or disk), and make sure it is loaded and online.
- 5. Initialize the system (see instructions in Appendix A). The following screen is displayed.

This is the Ultimate Operating System

System Startup Options: (C)oldstart (D)iagnostics Monitor (F)ile Restore (W)armstart

Enter Option(s) or ? for help:

Enter C

This option starts a Coldstart.

In the next screen, you are asked for your system serial number.

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Enter your System Serial Number

For example, enter BV0000. If the correct serial number is shown, press RETURN to accept it. You may reenter the correct number if you made a mistake. Then press RETURN after you enter, the correct number.

The following screen is displayed.

System serial # is presently BVxxxx	
Enter system serial # or <cr> to accept</cr>	
Mount ABS tape and enter number of files to skip, if any:	

Press RETURN.

Do not enter a number. Your SYS-GEN tape should already be loaded. The following screen is displayed.

<<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XX date >>>

This is the Cold-Start Procedure Enter <CR> to continue

Press RETURN.

The following screen is displayed.

date time Logon Please: <<< Welcome to the Ultimate Computer System >>> <<< Copyright date The Ultimate Corp. >>> <<< time Release XX Rev XXX date >>> This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time =

Enter the time in military format (HH:MM:SS) and press RETURN.

For example, enter 5pm as 17:00:00. The following screen is displayed.

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This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date =

Enter the date in the following format: MM/DD/YY and press RETURN.

For example, enter February 3, 1986 as 02/03/86. The following screen is displayed.

This is the Cold-Start Procedure Enter <CR> to continue Linking secondary TCL workspaces X additional task workspaces initialized time date Time = 17:00:00 17:00:00 date Date = 02/03/86 17:00:00 03 FEB 1986

The system will display several messages. One error message, "Ultimate Operating System does not Verify," is to be expected at this time. The system will verify when the upgrade is complete.

The following screen will be displayed.

<<<Verifying software>>> System software verified Do You Wish to Start Parallel Printer 0 (<CR>=NO, Y=YES) ?

If you have a parallel printer, type Y. If you do not have a parallel printer, just press RETURN. The following screen is displayed.



You may now log on to the system. If you did not start a parallel printer, the following screen is displayed.

>>date time Logon please<<<

NOTE: Do not use your application programs until you complete the following steps.

- 6. Logon to the SYSPROG account and go to TCL.
- 7. Make sure the SYS-GEN is loaded and online. Type

T-ATT *n* and press RETURN.

Replace n with the number of the tape drive on which the tape is mounted. Then type

T-REW and press RETURN to rewind the tape to the beginning.

8. Type

T-SPACE 19 and press RETURN.

- WARNING: This command skips 19 files on tape. The names of the files will be displayed on the screen. The last file skipped should be"STAT-FILE." If the last file is not "STAT-FILE," then type **T-REW** and press RETURN to rewind the tape to the beginning of the reel. Then try this step again. If the last file listed is still not "STAT-FILE," do not proceed. Call the Ultimate TAC.
- 9. At TCL, type

T-LOAD MD (O,I) and press RETURN.

- 10. Upgrade files in the SYSPROG, WP, ULTILINK, and ULTIMATION accounts.
 - a. Make sure the SYS-GEN is loaded and on-line.
 - b. Make sure you are logged on to the SYSPROG account and at TCL.
 - c. Type

UPG-REV and press RETURN.

d. If you are upgrading to Revision 195B or later, skip to Step 12.

The words "END OF FILE" will be listed several times on your screen. Then the following message is displayed.

If last file name displayed is 'DICT MD' Enter return

Else enter 'ABORT'

Press RETURN if the last filename displayed is "DICT MD."

If the last file name displayed is not "DICT MD," enter ABORT. You will return to TCL. Do not proceed. Call the Ultimate TAC.

- Once you press RETURN, the program displays the names of all application accounts to be upgraded. At the prompt "(C)ontinue or (Q)uit?", type C to continue. The SYSPROG Main Menu will be displayed. Press RETURN to go to TCL.
- 11. Upgrade your application accounts.

If Installing Revision 185Q or Later

Proceed to Step 13.

If Installing a Revision Prior to 185Q

At TCL, type

RUN DICT SYSPROG-PL UPG.NEWAC and press RETURN.

12. The program displays the names of all application accounts to be upgraded. The following message is displayed.



Enter C to continue.

The system will now upgrade the Master Dictionary of each user account.

13. Check to see if the system verifies. From the SYSPROG account, go to TCL.

Туре

VERIFY-SYSTEM and press RETURN.

The system should now verify. If you see a message indicating a mismatch, call the Ultimate TAC.

- 14. Remove the SYS-GEN tape from your system.
- 15. Create a Boot tape.

A boot tape contains only the programs needed to boot your system. A SYS-GEN contains the programs to boot your system, and it also contains system accounts and system files. Ultimate recommends that you create a boot tape now, and that you create a duplicate SYS-GEN at the time of your next File-Restore.

Follow the instructions in the <u>System Commands Guide</u> and the <u>System Management and</u> <u>Support Guide</u> to create a boot tape and a duplicate SYS-GEN tape.

16. The upgrade is now complete. You may log on and begin your normal work. Keep the file-save from Step 1 from your previous release for future reference.

Ultimate recommends that you do a file-save and full file-restore as soon as possible.

END OF UPGRADE METHOD 3

* *

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3 FORMATTING A DISK DRIVE

The Diagnostics Monitor is run offline. This means that you are not able to run your system in the normal mode. Only line zero is activated. The Ultimate Diagnostics Monitor has two modes of operation:

- 1. Formatting
- 2. Diagnostics

This document will only discuss the option for formatting your disk (consult the *Operations and Maintenance Guide* for more detailed information). These instructions apply to Revisions 186C and later.

3.1 FORMATTING A DISK DRIVE FOR 1410 SYSTEMS

Follow the instructions in this section if you are formatting a disk drive for 1410 systems (systems with WREN II 72mb disk drives). If you want to format a disk drive for a 1420 or 1430 system (systems with WREN III 145 mb disk drives), go to Section 3.2.

WARNING: If you format a disk, you will destroy all data on that disk. If you want to save the data, do a File-Save first. If you upgrade to Revision 185S or later, you <u>must</u> format your disk drives.

- 1. Boot your system, as instructed below.
 - a. Make sure the system is powered on. The AC PRESENT and DC ON lights should be on. (If not, turn on the two power switches: one in the front and one in the back.)
 - b. Load the Ultimate SYS-GEN tape, and raise the lock lever.
 - c. Press the RESET switch. The System Startup Options menu is displayed.
- 2. At the System Startup Options menu, type D to load the Diagnostics Monitor. The following screen is displayed.

ST506 disc sub-system Format and disc diagnostic utility (F)ormat a drive (B)ad sector map read (R)ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger utility (E)xit to options menu Select option: 3. Type F to select "Format a drive." A screen similar to the following is displayed.

ST506 disc sub-system Format and disc diagnostic utility

(F)ormat a drive
(B)ad sector map read
(R)ead disc parameters (vtoc)
(W)rite disc parameters (vtoc)
(D)rive diagnostics menu
(S)ystem debugger module
(E)xit to options menu

Select option: F

Enter drive number (0-2)

4. Enter the number of the drive (0, 1, or 2) that you want to format. The following screen is displayed.

ST506 disc sub-system Format and disc diagnostic utility (F)ormat a drive (B)ad sector map read (R)ead disc parameters (vtoc) (W)rite disc parameters (vtoc) (D)rive diagnostics menu (S)ystem debugger module (E)xit to options menu Select option: F Enter drive number (0-2).. 0 Enter (Y)es to continue

5. Type Y to continue the formatting process. The following screen is displayed.

Page 3-2

ST506 disc sub-system Format and disc diagnostic utility

(F)ormat a drive
(B)ad sector map read
(R)ead disc parameters (vtoc)
(W)rite disc parameters (vtoc)
(D)rive diagnostics menu
(S)ystem debugger module
(E)xit to options menu

Select option: F

Enter drive number (0-2).. 0 Enter (Y)es to continue... Y

Reading map

If your disk has never been formatted with Ultimate, go to Step 6. If it has been formatted with Ultimate before, go to Step 7.

6. If your disk has never been formatted with Ultimate, you see this message

Enter vendor's log? (Y/N)

CAUTION: If you are formatting a <u>new</u> drive, you must enter N at this prompt. Then, at any time in the future when formatting the drive, you should enter Y.

To enter the vendor's log of defective tracks on the disk, type **Y**, then go to Step 8. If you do not want to enter this information, type **N**, then go to Step 9.

7. If your disk has been formatted with Ultimate before, you see this screen.

An Ultimate error log already exists on this disk Do you want to: (U)se existing bad sector map (E)nter vendor's error log (Q)uit Enter selection:

To use the existing table of bad sectors, type U, then go to Step 9. To enter the vendor's error log of defective tracks on the disk, type E, then go to Step 8. To quit, type Q.

8. Follow this step to enter the vendor's error log. Your screen should look like the following.

Vendors log Cyl: hd: bcai: bl: sec:

NOTE: You must enter the information in decimal, not in hexadecimal.

Your cursor is positioned at "Cyl." You will use this screen to enter the information that appears on the disk drive label. Look on the label and find the first cylinder number listed. Then type that number and press RETURN. Then type the corresponding head number and press RETURN. Then type the numbers listed as bcai, bl (block), and sec (sector). Press RETURN after each number. The cursor returns to the Cyl prompt. Continue entering the numbers shown on the label.

When you finish entering the vendor's error log, press RETURN at the next Cyl prompt to continue. You will see this message:

Data correct (Y/N)

Check your typing. If the information you entered is correct, type Y and press RETURN, then go to Step 9. If not, type N and press RETURN. Then reenter the information.

9. You should see the following message:

Assign alternate tracks? (Y/N)

To assign alternate tracks for defective tracks, type Y and press RETURN, and go to Step 10. If you do not want to assign alternate tracks, type N and press RETURN, then go to Step 11.

10. Follow this step to assign alternate tracks. Your screen should look like the following.

Input cylinder in hex: Input head no.: Input sector in hex:

Type the cylinder number (*in decimal*) of the first alternate track to be used when a defective track is found. Then press RETURN. Then type the corresponding head and sector numbers, and press RETURN after each. Continue entering the cylinder, head, and sector numbers of alternate tracks. When you finish entering the alternate tracks, press RETURN at the next "Input cylinder" prompt. Then go on to Step 11.

Page 3-4

11. You should see the following message:

Continue formatting drive? (Y/N)

To continue, type Y and press RETURN. (To cancel the format, type N and press RETURN.) The disk will be formatted, and your screen will look as follows:

Formatting... cylinder:*nnn* trk: *nnn* Main stat = X'*nn*' Extended stat = X'*nnn*'

Once these messages have been displayed, then the formatting process is complete. Make sure you format all drives on your system.

NOTE: Several error messages may occur during the formatting process. This is to be expected. For most errors that appear, you will be prompted to "Type (CR) to continue." Press RETURN, and the error will usually be relocated automatically. However, if the message "Unrecoverable disk error" appears, call the Ultimate TAC.

3.2 FORMATTING A DISK DRIVE FOR 1420 AND 1430 SYSTEMS

Follow the instructions in this section to format a disk drive for 1420 and 1430 systems (systems with WREN III 145 mb disk drives).

- WARNING: If you format a disk, you will destroy all data on that disk. If you want to save the data, do a File-Save first. If you upgrade to Revision 185S or later, you <u>must</u> format your disk drives.
- 1. Boot your system, as instructed below.
 - a. Make sure the system is powered on. The AC PRESENT and DC ON lights should be on. (If not, turn on the two power switches: one in the front and one in the back.)
 - b. Load the Ultimate SYS-GEN tape, and raise the lock lever.
 - c. Press the RESET switch. The System Startup Options menu is displayed.
- 2. At the System Startup Options menu, type **D** to load the Diagnostics Monitor. The following screen is displayed.

-		
(F)orm	at utility menu	
(D)isc	liagnostics menu	
(H)ardv	ware configuration	
(B)inar	y save and restore (this option is not avai	lable)
(S)yste	m debugger utility	
e(X)it t	o options menu	
	-	1
Select of	option:	

3. Type F to select Format utility menu. The following screen is displayed.

Select option:	(R)elocate a defective sector log e(X)it to diagnostic monitor	
	Select option:	

4. Type \mathbf{F} to select Format disc. The following screen is displayed.
Format utility menu (rev 3) (F)ormat disc (data erased) (S)how manufacturers defect log (E)nter manufacturers defect log (D)isplay defective sector log (R)elocate defective sector e(X)it to diagnostic monitor Select option: F Enter drive number (0-5)

5. Enter the number of the drive (0, 1, 2, 3, 4, or 5) that you want to format. The following screen is displayed.

Format	utility menu (rev 3)
(F)o	rmat disc (data erased)
(S)h	ow manufacturers defect log
(E)n	ter manufacturers defect log
(D)i	splay defective sector log
(R)e	locate defective sector
e(X)	it to diagnostic monitor
Select o	ption: F
Enter di	ive number (0-5) 0
Enter (Des to continue

6. Enter Y to continue the formatting process. As the drive is being formatted, the screen will look like the following.



Once these messages have been displayed, then the formatting process is complete. Make sure you format all drives on your system.

NOTE: Several error messages may occur during the formatting process. This is to be expected. For most errors that appear, you will be prompted to "Type (CR) to continue." Press RETURN, and the error will usually be relocated automatically. However, if the message "Unrecoverable disk error" appears, call the Ultimate TAC.

1400 Upgrade Procedures

APPENDIX A: BOOTING THE SYSTEM

Throughout this manual, you will be asked to "boot" or "initialize the system." The following steps describe the procedure.

- 1. Make sure the AC PRESENT light is ON. (Refer to the POWERING ON instructions in Section 2, of the <u>1400 Operations and Maintenance Manual</u>.)
- 2. Load the Ultimate SYS-GEN tape. (Refer to the tape loading instructions in Section 4, of the 1400 Operations and Maintenance Manual.)
- 3. If both the AC PRESENT and DC ON lights are on, press the RESET button. If only the AC PRESENT light is on, press the POWER ON button. The following screen is displayed.

This is the Ultimate Operating System	
System Startup Options:	
(C)oldstart	
(D)iagnostic Monitor	
(F)ile Restore	

Refer to Section 6, of the <u>1400 Operations and Maintenance Manual</u> for information on each of the System Startup Options.

NOTE: If the system was :WARMSTOPPED prior to being powered off, refer to Section 6.4 of the <u>1400 Operations and Maintenance Manual</u> to WARMSTART the system. If the system was not :WARMSTOPPED prior to being powered off, then refer to Section 6.1 of the <u>1400</u> <u>Operations and Maintenance Manual</u> to COLDSTART the system.



APPENDIX B: LIST OF ACCOUNTS ON THE SYS-GEN

The general format of the SYS-GEN tape is as follows:

SYSTEM BOOT 1 **SYSTEM BOOT 2** COLD LOAD ABS LOAD FILE DATA (including the following accounts:) SYSTEM SYSTEM-ERRORS **BLOCK-CONVERT** SECURITY PROCLIB **SYSLIB** SYSTEM (Synonym) SYSPROG ERRMSG SPSYM GAMES TRAINING ACC SYSTEM (Q-pointers, etc.) **T-DUMP of STAT-FILE**

Several files are T-DUMPed at the end of the SYS-GEN tape. These files are used for the selective upgrade method, and for updating the WP, ATP, ULTILINK, and ULTIMATION accounts. To position the tape at the first file, do 19 T-FWDs from load point. The files are dumped as follows.

SYSPROG MD DICT NEWAC ERRMSG DICT TERMDEF TERMDEF CONVERSION,DOC CONVERSION,PGM CONVERSION,PROC CONVERSION,TABLE OSYM PSYM OBJECT M1.OSYM M2.PSYM M2.OSYM DICT STAT-FILE DICT BLOCK-CONVERT USER-MODES USER-MODES,SOURCE DICT SYSPROG-PL DICT ACC DICT SYS-ERRS DICT DOCUMENT DOCUMENT,DELTA DOCUMENT,UPG DOCUMENT,SYSTEM DICT REALLOC-FILE WP Master Dictionary DICT WP-PROGS WP-PROGS,TABLES DICT SPSYM SPSYM,DF DICT OA.PROG OA.PROC ULTIMATION MD account-save of WP account-save of ATP account-save of ULTILINK account-save of ULTILINK .

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READER COMMENT FORM

Ultimate welcomes your comments. If you find a problem or error in this manual, or can suggest an improvement, please complete this form. Please attach additional sheets, if necessary.

Name of Manual:	
-----------------	--

Document No.:

• • • •

Date:_____

Comments

FROM:

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Name:	System Number:
Company	/:
Address:	<u>.</u>
City:	State: Zip:
	Fold and tape. Please do not staple.

Place Stamp Here ^н ж. ж. Цал

THE ULTIMATE CORP. 717 Ridgedale Avenue East Hanover, NJ 07936 Attn: Documentation Manager

Fold and tape. Please do not staple.

Ultimate Technical Support Bug Form					
Priority	Verified By	Date Received	QC Number		
For Ultimate Use Only					
Category Affected:	Systems, Applications, Othe				
Release Affected		Date Submitted			
Contact Name					
Your System No.		_ Telephone No			
Detailed Description	้าก				

System Configuration (memory size, number of ports, types of terminals and printers, etc.)

×,

Response/Status

· · · ·

Date

FROM:

Company:				
Address:	-			
City:		 State:	Zip:	
	•			

Fold and tape. Please do not staple.

Place Stamp Here

THE ULTIMATE CORP. 717 Ridgedale Avenue East Hanover, NJ 07936 Attn: Quality Assurance

Fold and tape. Please do not staple.

	Ultimate Technical Sup	port Suggestion Form
Priority	Verified Do By Re	nte QC eceived Number
	For Ultimate	Use Only
Category Affected:	Systems, Applications, Other	
Release Affected		Date Submitted
Release Affected Contact Name		Date Submitted

System Configuration (memory size, number of ports, types of terminals and printers, etc.)

Response/Status

Date _

FROM:

Company:				
Address:				True To de l'Anna Compton L
City:		State:	Zip:	
				. • • •
	Fold and tape. Pl	ease do not staple.		

Place Stamp Here * *** * *** *

THE ULTIMATE CORP. 717 Ridgedale Avenue East Hanover, NJ 07936 Attn: Quality Assurance

Fold and tape. Please do not staple.

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UIT THE ULTIMATE CORP. 717 RIDGEDALE AVENUE

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