* CORVUS SYSTEMS

Network Station User's Guide IBM Personal Computer



Network Station User's Guide

IBM

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Introduction

This guide tells you how to use your IBM PC with a Corvus disk system or local network. In particular, this guide explains how to gain access to the Corvus disk system and how to activate volumes. It also shows you how to send and receive messages, how to print files, and how to backup your volumes onto diskettes.

Conventions

The word "**Type**" is used throughout this guide to mean that two or more characters or keyboard symbols are to be entered on the computer keyboard. All words, symbols, spaces and punctuation to the right of the word "**Type**" should be typed exactly as shown. Do not add or leave out punctuation marks at the end of the statement you are typing.

Examples:

Type A:PIP C:=B:*.DOC RETURN

Type RUN BSYSGEN RETURN

The spaces between the word "Type" and the first character to its right should not be typed. When a keytop symbol is used, press the key to which it refers. Do not type out each letter of the word shown in the keytop symbol.

The word "**Press**" is used throughout this guide to mean that a single character or keytop symbol is to be entered on the keyboard.

Examples:

Press Y

Press RETURN

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Sign On

There are two ways to gain access to the Corvus disk system with the IBM PC. You can sign on by using a diskette or by entering instructions at the keyboard. This section tells you how to sign on both ways.

Booting with Diskette

- Get a Corvus boot diskette
- from your system manager.
- **2.** Put the Corvus boot diskette into drive A of your IBM PC.

Turn on your computer.

The screen displays:

Boot from CORVUS or FLOPPY (C/F) ? __

3. Press C

After a moment, the Constellation II sign-on display appears:

```
* * C O R V U S S Y S T E M S
* CONSTELLATION II
* * V 1.4
Please enter your name: __
```

4. Sign on to the system with your name and password.

If you don't have a name and password, see your system manager.

Booting Without Diskette

- Make sure that the IBM PC
 - diskette drives are empty.

2. TURN ON your computer.

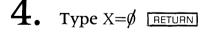
After a moment, the screen displays:

The IBM Personal Computer Basic Version C1.00 Copyright IBM Corp 1981 61404 Bytes free Ok

3. Type DEF SEG=&HDFØØ RETURN

The screen displays:

Ok



The screen displays:

5. Type CALL X RETURN

The Constellation II sign-on display appears:

* * C O R V U S S Y S T E M S * CONSTELLATION II * * V 1.4

Please enter your name: ____

6. Sign on to the system with your name and password.

If you don't have a name and password, see your system manager.

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Activating Volumes

The IBM Personal Computer allows you to have up to ten volumes active at once. However, your system manager may have given you access to more than ten volumes, some of which are inactive. If you want to use a volume which is inactive, you must "mount" it.

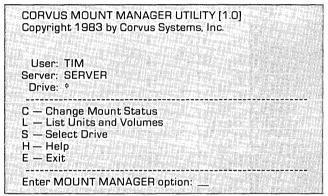
When you mount a volume you need a space in which to put it. You must mount the volume on one of the IBM units, A through J. If no unit is free, you may mount the volume on an occupied unit. If you do this, the mount program will automatically unmount the volume that is already on the unit and will mount the volume you need in its place.

Entering the Mount Program

- The program that mounts and unmounts
- volumes is called the Mount Manager program. You need a 128K IBM PC to use this program. After signing on,

Type A:MNTMGR RETURN

The screen display is similar to:



This is the Mount Manager Main Menu.

Listing Volumes

1. When you mount a volume, you must mount it on a unit that has the same attributes as the volume you are mounting. Volume attributes are length, cluster size, reserved sectors, and number of directory entries.

To determine the attributes of your volumes and units,

Press L

The screen display is similar to:

Unit	Assignme	nts — write			res	dir	FAT		a galaya di ka
unit	volume	acc	length	clus				server	drive
А	IBMMS	yes	1024	4	1	256	1	RDNET	RDNET1
B	VOL11	yes	2048	8	0	256	2	RDNET	RDNET1
С	floppy	yes	320	- 1	- 1	64	- 1		floppy
D	floppy	yes	320	. 1	1	64	1		floppy
F	VOL31	no	2048	16	0	256	s e 4	RDNET	RDNET3
G	VOL13	yes	2048	8	0	256	2	SERVER	DRIVE1
J	VOL32	yes	2048	16	0	256	4	RDNET	RDNET3
									an a
Pres	s <space< td=""><td>> to co</td><td>ntinue _</td><td></td><td></td><td>60 20 20</td><td></td><td></td><td>n tangan sing Silang sing sing sing sing sing sing sing si</td></space<>	> to co	ntinue _			60 20 20			n tangan sing Silang sing sing sing sing sing sing sing si

This list shows you which volumes are currently mounted,

2.

You can now list out all the volumes to which you have access by **pressing SPACE**

Press SPACE

The screen display is similar to:

		write			res	dir	FAT		
unit	volume	acc	length	clus	sects	ents	sects	server	drive
C	floppy	yes	320	1	1	64	1		floppy
D	floppy	yes	320	1	1	64	ຼີ 1		floppy
-	воот						2	RDNET	RDNET
Α	IBMMS	yes	1024	4	1	256	1	RDNET	RDNET'
В	VOL11	yes	2048	8	0	256	2	RDNET	RDNET
_	VOL12		2048	8	Ó	256	2	RDNET	RDNET'
	VOL13	yes	2048	8	0	256	2	RDNET	RDNET'
	VOL35	yes	2048	16	-, O	256	1	RDNET	RDNET
F	VOL31	no	2048	16	0	256	4	RDNET	RDNET
J	VOL32	yes	2048	16	0	256	4	RDNET	RDNET
G	VOL13	yes	2048	8	0	256	2	SERVER	DRIVE1
	JUNK		1024	4	0	64	5	SERVER	DRIVE2
— ini	dicates ur	imounte	ed volum	18					

3

From the list of accessible volumes, pick the unmounted volume which you wish to mount.

4. Now choose the unit letter on which you wish to mount the volume.

Remember that the length, cluster size, number of reserved sectors, and number of directory entries of the unmounted volume must match those of the mount unit.

If there is a volume presently mounted on the unit you choose, the Mount Manager will automatically unmount it for you when you mount your new volume.

5. Once you have made your decisions, write down the name of the volume you wish to mount and the unit letter on which you wish to mount it.

6. Press SPACE

The screen displays the Mount Manager main menu.

- Mounting a Volume
 - **1.** From the mount manager main menu,

Press C

The screen displays:

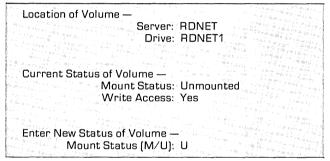
Enter volume name: ___

2. Enter the name of the volume you wish to mount, followed by a **RETURN**. If you have another volume with the same name on a different drive,

Type /dname/vname RETURN]

where "dname" is the name of the drive on which the volume is located and "vname" is the name of the volume.

The screen display is similar to:



3. Press M

The screen displays:

Mount Unit (A-J): ____

4. Press the letter of the unit on which you wish to mount the volume.

The screen displays:

Write Access (Y/N)? Y

- If you want to have write access 5.
 - to the new volume.

Press Y

If you only want to have read access to the volume.

Press N

If you are mounting a volume in place of another volume, the screen display is similar to:

WARNING: Unit B is currently assigned volume /RDNET/RDNET1/VOL11.

If you are mounting your volume on a free unit, no warning appears.

The screen displays:

Change volume status (Y/N)? Y

If you have made 6. all desired changes,

Press Y

The screen display is similar to:

Volume VOL11 unmounted.

Volume VOL12 mounted.

Press 'C' to change another mount status or press <SPACE> to continue ____

7. Press SPACE

The screen displays the Mount Manager main menu.

8. When you have finished using the Mount Manager,

Press E

Protecting Volumes

You can use the Mount Manager program to temporarily remove write access to a volume or to unmount a volume completely. If you wish to protect a volume in this way, use the Change Mount Status option from the Mount Manager main menu.

Note to Multiple Disk System Users

If your volumes reside on multiple Corvus disk systems, the Select Drive option of the Mount Manager lets you choose to examine only the volumes on a specific drive. If you know that you are only interested in a particular drive, you can use this option to limit the size of the volume listings in the List Units and Volumes option. This makes the listings both faster and easier to read. If you wish to consider all drives, enter a "*" for drive name. Volume searches will then include all drives.

Printing

Normally, each computer on a network will not have an attached printer. To use a printer attached to another computer or utility server you must "Spool" your file to a special area on the Corvus disk called the PIPES area. The other computer or utility server will then "Despool" that file to the attached printer.

Spooling a File

The first step in printing is to put your material into the form in which you want it to be printed. Format your text the way you want it using your computer's editor or word processor. Next, save this text into a file. You are now ready to spool.

Type A:SPOOL RETURN

The screen displays:

Corvus Spool Utility (1.1a) Main Menu	
S — Spool a File C — Change Spool Parameters D — Display Pipes	
H — Help E — Exit	
Please select an option:	

2. If you want your file to print on your network's default printer,

Press S

The system manager should tell you which printer is the default printer.

If you want your file to print on a printer other than the default printer, you must change the Pipe Name spool parameter. Go to the next section on "Changing Spool Parameters" if you wish to do this.

After pressing S, the screen displays:

Corvus Spool Utility (1.1a) Spool a file File name: ____

3. Type the name of the file that you want printed, then

Press RETURN

1. The program asks you for a message. Enter any message up to eighty characters long. The message will be printed on the title page of your printout. Follow your message with a RETURN

The program now starts spooling your file to the PIPES area. While the file is being spooled, a series of dots will appear across the screen. When spooling is complete, the screen display is similar to:

Spooling file to pipe PRINTER[1]

15 blocks written to pipe PRINTER [1] Enter file name to be spooled:

5. You may now spool another file or exit the program. If you wish to exit,

Press RETURN

The screen displays the Spool Utility main menu.

Press E

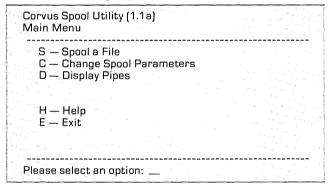
6. Your default network printer or the printer you chose by changing the Pipe Name parameter should now start printing your file. If it does not, see your system manager.

Changing Spool Parameters

There are several parameters which affect the way in which a file is spooled. You can change these parameters to suit your needs. If you want to change the spool parameters from their default values, you must make the changes before you spool the file to which the new values will apply. Follow this procedure to change the parameter values.

Type A:SPOOL RETURN

The screen displays:



2. Press C

The screen displays:

Corvus Spool Utility Change Spool Parameters	
P — Pipe Name : Pi L — Lines per Page : 59 C — Chaining Symbol : (\$ N — New Page Symbol : (\$ T — Tab Length : 8 F — File Type : TE E — Exit to Main Menu :	l P
Please select an option:	

3. Pick the parameter that you wish to change. Enter the letter which corresponds to that parameter.

Example:

If you wish to change the chaining symbol,

Press C

4. After you choose a parameter, the program shows you the possible values for the parameter. Choose the value you want and enter that value followed by a RETURN

The following paragraphs describe the parameters and the values which they can take on.

Pipe Name—This is any alphanumeric name up to eight characters long starting with a letter. By choosing the correct Pipe Name you can direct your file to any active printer on your network. Your system manager should provide you with a list of network printers and their Pipe Names.

Lines per Page—This is the total number of lines that the printer will print on a page before it begins a new page. If you want to print continuously without skipping over page boundaries, set Lines per Page to 0 (zero).

Chaining Symbol—When this symbol is found in the file being spooled, the spooler looks for a file name immediately following the symbol. The spooler includes this new file at that point in the spooling. If no file name is found after the chaining symbol, the spooler prints an error message and continues spooling. The chaining symbol can be any string up to 133 characters.

New Page Symbol—Wherever this symbol appears in the file, it causes the printer to skip to the top of the next page. The New Page Symbol can be any string up to 133 characters long.

Tab Length—A tab character (control-I) in the file causes the spooler to insert spaces until the next tab column is reached. The Tab Length parameter sets the positions of the tab columns. Tabs are set every "Tab Length" space starting at the left margin. Valid Tab Lengths are 1 to 133. File Type—This lets you specify whether the file being spooled is text or data. If you choose "text," the spooler will format the file according to the L, C, N, and T parameters. If you choose "data," the spooler will spool the file exactly as it finds it.

5. After you have changed all the parameters you wish to change,

Press E

The screen displays the Spool Utility main menu.

6. Spool your file.

Exchanging Information Between Users

Corvus local area networks let users exchange information electronically. Exchanges take place through a special area of the disk system called the PIPES area. You can think of the PIPES area as a message center. Users can send their files to the PIPES area and these files can then be accessed by other users.

Sending a file to the PIPES area is called "spooling." When you spool a file, you must put a name on it so that other users will know who the file is for. Your system manager should set up a directory of users and spool names so that you will know how to address your files. This chapter explains how to spool files to other users and how to "despool" files which others have sent to you.

Sending Files

1. Type A:SPOOL RETURN

The screen displays the Spool Utility main menu:

Copyright 1982, 1983 Corvus Systems, Inc. All Rights Reserved Corvus Spool Utility (1.2) Main Menu S — Spool a file C — Change Spool Parameters D — Display Pipes H — Help E — Exit Please select an option:

2. Press C

The screen displays the Change Parameters menu:

Corvus Spool Utility Change Spool Parameters	
P — Pipe Name : L — Lines per Page : C — Chaining Symbol : N — New Page Symbol : T — Tab Length : F — File Type : E — Exit to Main Menu :	PRINTER 55 (\$1 (\$P 8 TEXT
Please select an option:	

3. Press P

The screen displays:

Pipe name (up to 8 characters):

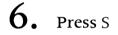
4.

Consult your user directory to determine the spool name for the user you wish to send your file to. Type in this name followed by a RETURN

5. Press E

The screen displays:

Copyright 1982, 1983 Corvus Systems, Inc. All Rights Reserved Corvus Spool Utility (1.2) Main Menu S — Spool a file C — Change Spool Parameters D — Display Pipes H — Help E — Exit Please select an option:



The screen displays:

Corvus Spool Utility (1.1a) Spool a file

File name: ____

7. Enter the name of the file you want to send, followed by RETURN

The screen displays:

Message:



You may now spool another file to the same user. If you have no more files to spool to that user,

Press RETURN

The screen displays the Spool Utility main menu.

10. Press E

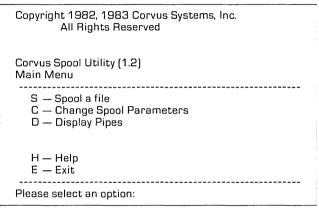
to exit the Spool Utility.

Checking for Files

This section tells you how to find out if any files have been sent to you.

L. Type A:SPOOL RETURN

The screen displays the Spool Utility main menu:



2. Press D

The screen displays:

Corvus Spool Utility (1.1a) Display pipe	
Pipe name:	

- Enter your spool name as it is in the user
- 3. directory. Follow the name with a [RETURN]. The screen will list all files in the PIPES area which have your name on them.

Example:

2. STEVE Closed --- Contains data 2 blocks

This shows that there is one file waiting for STEVE in the PIPES area. This file is on PIPE 2.

4. Press RETURN

The screen displays the Spool Utility main menu:

Copyright 1982, 1983 Corvus Systems, Inc. All Rights Reserved	
Corvus Spool Utility (1.2) Main Menu	
S — Spool a file C — Change Spool Parameters D — Display Pipes	
H Help E - Exit	
Please select an option:	1

5. Press E

to exit the Spool Utility.

Receiving Files

1. If you have a file waiting for you in the PIPES area,

Type A:DESPOOL RETURN

The screen displays the Despool Utility main menu:

Corvus Despool Utility (1.2) Main menu	
D — Despool a file C — Change despool parameters	
H — Help E — Exit	and the state of the
Please select an option:	de ruser e ser c

2. Press C

The screen displays the Change Parameters menu:

Corvus Despool Utility (1.1b) Change Despool Parameters
P — Pipe name O — Output device L — Do you want <if> after <cr> S — Single page printing E — Exit to main menu</cr></if>
Please select an option:

3. Press P

The screen displays:

Pipe name:

4.

Enter your spool name as it appears in the user directory. Follow the name with a [RETURN] . The screen again displays the Change Parameters menu.

5. Press O

The screen displays:

Printer, File, Console : ___

You have three choices for despooling the file that has been sent to you. If you have a printer attached to your computer, you may press P to select the Printer option. When you despool the file, it will be printed.

You may also **press** C to select the Console option. When you despool, the file will appear on your screen.

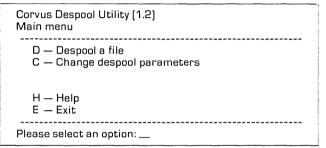
If you select File, by **pressing** F, the received file will be put in a file in one of your own volumes. This is usually the best choice because when a file is despooled, it disappears from the PIPES area. This means that if you despool to a printer or to your screen, you will not later be able to put the information into a file.

6. Press F

The screen displays the Change Parameters menu without the L and S options.

7. Press E

The screen displays the Despool Utility main menu:



8. Press D

The screen display is similar to:

Currently despooling pipe named :		STEVE
Pipe number :		2
Spooled filename :		TEST.TXT
Filename to despool to	ľ	

9

Enter a location and a file name. The despool program will create a file with this name in this location and will put the data that was sent to you in it. Follow the file name with a RETURN .

Example:

Type B:TEST1. TEXT RETURN

The screen display is similar to:

5 block(s) read from pipe 2 named STEVE

10. If there was more than one file with your name on it, the program will ask you for a file name for the next file. Otherwise the screen display is similar to:

Currently searching for pipe named : STEVE Press any key to escape . . .

11. Press RETURN

The screen displays the Despool Utility main menu:

Corvus Despool Utility (1.2) Main menu	
D — Despool a file C — Change despool paran	neters
H — Help E — Exit	
Please select an option:	

12. Press E

to exit the Despool Utility.

Backup To Floppy

This chapter tells you how to use the Corvus Backup-To-Floppy utility to save an entire IBM MSDOS volume to diskettes. This chapter also tells you how to restore volumes back onto a Corvus disk system from diskettes.

The standard IBM COPY program can be used to backup most individual files from a Corvus volume onto diskette. The COPY program cannot be used to copy an entire Corvus volume or a file larger than a diskette.

When the standard COPY program cannot be used, you can use the Corvus Backup-To-Floppy utility as described below to back up and restore information on the Corvus disk system. During the backup process, you will need to have enough formatted diskettes to hold all the information on the entire volume being backed up. The amount of information a diskette can hold varies according to the type of diskette drive you have. Use the table below to estimate how many diskettes you will need to back up your volume.

	volume size			
Floppy Drive Format	512 blocks	1024 blocks	2048 blocks (1MB)	4096 blocks
160KB	2	4	7	13
	diskettes	diskettes	diskettes	diskettes
320KB	l	2	4	7
	diskettes	diskettes	diskettes	diskettes

Volume Size

Example:

Suppose you have an 1800 block volume that you want to back up with a 160KB floppy drive. The table shows you that you will need between 4 and 7 diskettes. Estimate on the high side and figure on 6 diskettes.

Use the standard MSDOS format program from IBM to format the right number of diskettes before you start the backup. Backup To Floppy

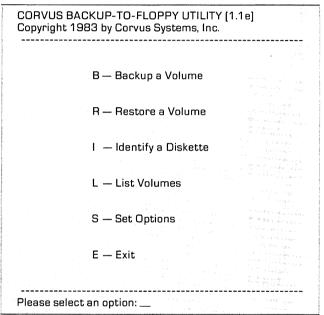
 When the right number of diskettes has been formatted, boot to the Corvus Constellation II log-on message. Log on as user IBMBACKUP.
 Type IBMBACKUP [RETURN]
 The screen displays:

CORVUS BACKUP-TO-FLOPPY UTILITY [1.1e] Copyright 1983 by Corvus Systems, Inc.			
Please enter:			
User name: Password:			

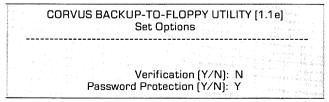
2.

Enter the name and password you normally use to sign on to the network. Follow both your name and password with a <u>RETURN</u>. If you do not have a password, simply press <u>RETURN</u> in response to the password prompt.

The screen displays the Backup-To-Floppy main menu:



3. Press S



4. If you choose the verification option, the Backup-To-Floppy utility will check to see that it is correctly copying information from the Corvus volume to diskette during the backup procedure. Choosing this option doubles the amount of time it takes to do a backup.

The password protection option lets you prevent other people from reading data from your backup diskettes. If a diskette is protected, your user name and password will have to be entered before the diskette can be restored.

Set the verification and password protection options the way to want them. **Press** [RETURN] each time you enter a "Y" or an "N."

The screen displays:

Ok to set options (Y/N)? Y

5. If you like the way you have set the options,

Press RETURN

The screen displays:

Options set.

Press <space> to continue.

6. Press SPACE

The screen displays the Backup-To-Floppy main menu.

You normally think of your volumes in terms of unit letters (e.g., A, B, etc.). The utility thinks of your volumes in terms of volume names. To see the names and lengths of your volumes,

Press L

The screen display is similar to:

CORVUS	BACKUP-TO- List Vo	FLOPPY U	TILITY [1.1e]
Barran an an Arran ann an Arran ann an Arran ann an Arran		n haile an	
volume	length	unit	write access
		Standorfer Standorfer Startester Startester	
BOOT	128 1024	Δ	
JOHN	2048	B	YES
JACK	2048		YES
Press <space< td=""><td>> to continue.</td><td></td><td></td></space<>	> to continue.		



When you know the name of the volume you wish to back up,

Press SPACE

The screen displays the Backup-To-Floppy main menu.

Press B
The screen displays:
CORVUS BACKUP-TO-FLOPPY UTILITY [1.1e] Backup a Volume
Please enter:
Volume Name: Date:

10. Enter the name of the volume you wish to back up followed by a <u>RETURN</u>. Enter the date followed by a <u>RETURN</u>. For example:

Type IBMMS RETURN

Type 4-04-83 RETURN

The screen displays:

Insert formatted [volume]-1 diskette in drive A. Press <space> after inserting diskette. ___

Make a label for your first backup diskette.
 The label should carry the name of the volume followed by a "-1." For example, write "IBMMS-1." Place this label on the diskette. Insert the diskette in diskette drive A.

Press SPACE

The screen display is similar to:

Checking capacity of t	he floppy drive	3201	КΒ
Creating floppy # 1			
This backup requires	n diskettes.		·

12. The program now begins to copy data from the Corvus volume to the first backup diskette. As each block of data is copied, a dot appears on the screen. When the first diskette is full, the screen displays:

Insert formatted [volume]-2 diskette in drive A. Press <space> after inserting diskette.___

13. In step 11 the screen told you how many diskettes you would need for your backup. If you have not formatted enough diskettes, press **ESCAPE**, format more diskettes, and start the program over from the beginning.

If you have enough diskettes, continue to the next step.

14. Create a diskette label which includes the Corvus volume name and is followed by a "-2." Place the label on the diskette, then place the diskette in diskette drive A.

Press SPACE

The backup process continues. The computer will request more diskettes as required. Label each diskette in a similar manner to the first two diskettes.

When all information has been stored on diskettes, the screen displays:

Volume backup complete. Press <space> to continue. ____

15. Remove the last diskette used during backup.

Press	SPACE

The screen displays the Backup-To-Floppy main menu.

16. To exit the Corvus Backup-To-Floppy utility,

Press E

The screen displays:

Please reboot your computer. ___

17. Reboot your computer using the normal **CTRL** ALT DEL key combination.

Restore from Floppy

During the restoration process, you must use a diskette drive that can read your backup diskettes.

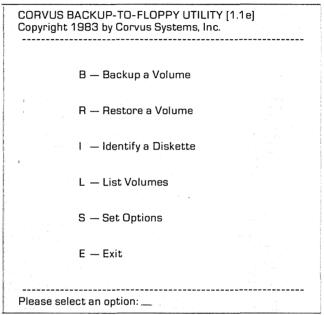
1. From the Constellation log-on message, log on as the user IBMBACKUP.

CORVUS BACKUP-TO-FLOPPY UTILITY [1.1e] Copyright 1983 by Corvus Systems, Inc.
Please enter:
User name: Password:

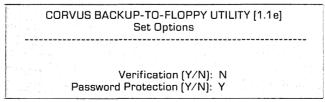
2.

Enter the name and password you normally use to sign on to the network. Follow both your name and password with a <u>RETURN</u>. If you do not have a password, simply **press** <u>RETURN</u> in response to the password prompt.

The screen displays the Backup-To-Floppy main menu:



B. Press S



4. The restore program can check to see that it is correctly copying data from your diskettes to the disk during the restore procedure. If you choose the verification option, the program will make this check. This option doubles the amount of time it takes to do a restore.

The password protection option does not apply to restores.

Set the verification option as you want it. Enter either a "Y" or "N" followed by a [RETURN]. Press [RETURN] for the password protection option.

The screen displays:

```
Ok to set options (Y/N)? Y
```

5. If you like the way you have set the options,

Press RETURN

The screen displays:

Options set.

Press <space> to continue.

6. Press SPACE

The screen displays the Backup-To-Floppy main menu.

7.

To make sure that you are restoring the proper information to the Corvus drive, select the identify option. (Note that this option may also be used to properly sequence diskettes should the diskettes of a backup be accidentally mixed up).

Press I

The screen displays:

CORVUS BACKUP-TO-FLOPPY UTILITY [1.1e] Identify a Diskette	
Insert diskette in drive A. Press <space> after inserting diskette</space>	

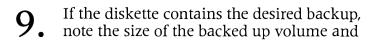


Place the first diskette created during the backup process ([volume]-1) in diskette drive A.

Press SPACE

The screen display is similar to:

CORVUS BACKUP-TO-FLOPPY [1.1e] Identify a Diskette
Volume Backed Up: IBMMS Date of Backup: 4-04-83 User Name: USER1 (protected) Size of Volume (blocks): 1024 Total Number of Diskettes: 5 Number of this Diskette: 1
Press <space> to continue</space>



Press SPACE

The screen displays the Backup-To-Floppy main menu.

10. You normally think of your volumes in terms of unit letters (e.g., A, B, etc.). The utility thinks of your volumes in terms of volume names. To see the names and lengths of the volumes to which you have access,

Press L

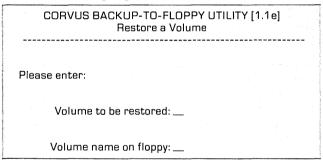
CORVUS BACKUP-TO-FLOPPY UTILITY [1.1e] List Volumes			
volume	length	unit	write access
BOOT IBMMS JOHN JACK	128 1024 2048 2048	A B	YES YES
Press <space> to continue</space>			

11. Determine the name of the volume you wish to restore. When you have confirmed that you have write access to this volume and that the length of this volume is equal to the length of the volume to be restored from diskette.

Press SPACE

The screen displays the Backup-To-Floppy main menu.

12. Press R



13. Although the Corvus volume that you are restoring need not be the same volume from

 restoring need not be the same volume from which the backup diskettes were made, the volumes must be the same size.

Enter the name of the volume on the Corvus disk system to be restored and the name of the volume on the floppy being restored, each followed by [RETURN].

If at the time of backup you protected your backup diskettes, your current user name and password must be identical to the name and password you used during the backup.

If all security checks are passed, the screen displays:

Insert [volume]-1 diskette in drive A. Press <space> after inserting diskette. _

14. If you have not already placed the first diskette created during the backup process in diskette drive A, do so.

Press SPACE

The restoration process begins and as each block of data is copied from the diskette drive to the Corvus volume, a dot appears on the screen. After the first diskette is copied, the screen displays:

Insert [volume]-2 diskette in drive A. Press <space> after inserting diskette. ___

15. Place the requested diskette in diskette drive A.

Press SPACE

The restore process continues. The computer will request each diskette made during the backup in order.

When all information has been restored the screen displays:

Volume restoration complete.		
Press <space> to continue</space>	andra General Angel General Angel Mangel	

16. Press SPACE

The screen displays the Backup-To-Floppy main menu.

17. To exit the Corvus Backup-To-Floppy utility,

Press E

The screen displays:

Please reboot your computer. ___

18. Reboot your computer using the normal CTRL ALT DEL command.