



# **User's Guide for Disc Management and Value Pack Loading**

**HP Computer Museum**  
**[www.hpmuseum.net](http://www.hpmuseum.net)**

**For research and education purposes only.**

# Printing History

The Printing History below identifies the Edition of this Manual and any Updates that are included. Periodically, Update packages are distributed which contain replacement pages to be merged into the manual, including an updated copy of this Printing History page. Also, the update may contain write-in instructions.

Each reprinting of this manual will incorporate all past Updates, however, no new information will be added. Thus, the reprinted copy will be identical in content to prior printings of the same edition with its user-inserted update information. New editions of this manual will contain new information, as well as all Updates.

To determine what software manual edition and update is compatible with your current software revision code, refer to the appropriate Software Numbering Catalog, Software Product Catalog, or Diagnostic Configurator Manual.

First Edition ..... Oct 1983  
Second Edition ..... Jun 1984

## NOTICE

The information contained in this document is subject to change without notice.

HEWLETT-PACKARD MAKES NO WARRANTY OF ANY KIND WITH REGARD TO THIS MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Hewlett-Packard shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

Hewlett-Packard assumes no responsibility for the use or reliability of its software on equipment that is not furnished by Hewlett-Packard.

This document contains proprietary information which is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced or translated to another program language without the prior written consent of Hewlett-Packard Company.

# Table of Contents

## Chapter 1

### Disc Management

General Considerations . . . . .	1-1
Programs From Primary . . . . .	1-1

## Chapter 2

### Pre-Installed Value Pack for MICRO/1000

Switching to the VC+ System . . . . .	2-1
Installing Languages . . . . .	2-5
Installing Image . . . . .	2-6

## Chapter 3

### Loading the Value Packs

Loading VC+ . . . . .	3-2
Loading the Language . . . . .	3-4
BASIC . . . . .	3-5
FORTRAN . . . . .	3-8
Symbolic Debug/1000 . . . . .	3-10
Pascal . . . . .	3-11
Loading Image . . . . .	3-13
Loading Graphics . . . . .	3-14



# Chapter 1

## Disc Management

### General Considerations

When using any HP hard disc with less than 20 megabytes of storage, you should perform some disc management to use disc space more efficiently. Three ways to perform disc management are as follows:

- Avoid storing files that are seldom used on the disc
- Backup infrequently used files that may be needed in the future on removable media (such as magnetic tape or microfloppies) and purge the files from the disc
- Pack the disc after purging files to make unused disc space contiguous

### Programs From Primary

There are a number of programs that are loaded and shipped as part of the HP RTE-A Primary System. Some of these programs should always be available on the hard fixed disc. Programs that are used so often that it is inconvenient to continually restore them to the fixed disc should be kept on the fixed disc. Others that are used infrequently (for example, once a day or less) should be restored to the fixed disc when needed and then purged.

Programs that should always be on the fixed disc are as follows:

AUTOR (if auto restart is used)  
CI  
CIX  
DL  
DRTR  
FMGR  
LI  
IO  
WH

Programs that may be used very frequently are as follows (1 block is 256 bytes):

Program	Size (blocks)	Manual
EDIT	338	EDIT/1000 User's Guide
FPACK	177	Utilities Manual
FREES	49	Utilities Manual
LINK	440	LINK User's Manual
MACRO	598	Macro/1000 Manual (Pascal uses Macro)
PRINT/PRINO	162	Utilities Manual

Programs that may be used frequently enough to keep on the fixed disc are as follows (1 block is 256 bytes):

Program	Size (blocks)	Manual
FOWN	145	Utilities Manual
FVERI	169	Utilities Manual
LINDX	203	LINK User's Manual
MERGE	89	Utilities Manual

Programs that probably will be used infrequently or not at all are as follows (1 block is 256 bytes):

Program	Size (blocks)	Manual
AB2MI	81	Utilities Manual
ARSTR	121	Utilities Manual
ASAVE	129	Utilities Manual
BUILD	351	System Generation and Installation Manual
COMND	41	Utilities Manual
COPYL	33	Utilities Manual
CSYS	81	Utilities Manual
DRSTR	137	Utilities Manual
DSAVE	137	Utilities Manual
FC	718	Utilities Manual
FORMC	209	Utilities Manual
FORMF	137	Utilities Manual
FPUT	49	System Generation and Installation Manual
FSCON	97	Utilities Manual
FTEST	137	Primary System Installation Manual
INSTL	113	Utilities Manual
LIF	233	Utilities Manual
MI2AB	73	Utilities Manual
OLDRE	73	Macro/1000 Manual
RTAGN	228	System Generation and Installation Manual
TF	704	Utilities Manual

Refer to the appropriate manual for a description of any of the programs listed above.

# Chapter 2

## Pre-Installed Value Pack for MICRO/1000



When a Value Pack (Option 121, 122, or 123) and a hard fixed disc (Option 111) are ordered with a Micro/1000 system, the programs and most of the files for the Value Pack are installed on the fixed disc. This chapter describes using some of the pre-installed programs to switch from the primary system to the RTE-A Virtual Code (VC+) system. After switching to the VC+ system, you can use the other pre-installed programs of the Value Pack feature products (FORTRAN, BASIC, PASCAL, Image, and Graphics), which were loaded for the VC+ system. If you have a problem with a pre-installed program, follow the instructions in the chapter on Loading the Value Packs to reload the program.

All the programs and Image libraries on LU 57 should be backed up on microfloppy or other removable media (for example, magnetic tape) so they can be restored to the fixed disc when needed. The following programs are too large to fit on a microfloppy and, if used, must be kept on the fixed disc:

- QUERY (from Image)
- BASIC, RBEX, CBASIC (from BASIC)
- PASCOMP or PCL (from Pascal)

All the programs and libraries for the Value Pack feature products will not fit on LU 55, which already contains the programs and files for the primary system. Refer to the chapter on Disc Management for help in deciding which programs should be purged from LU 55 when you need more space.

This chapter assumes that you are starting from the primary system. Refer to the RTE-A Primary System Installation Manual (part no. 92077-90038), for information about the primary system LUs.

All the files belonging to the primary system are on a set of microfloppies that come with the system. If you need a program that has been purged, you can restore the program from the microfloppy.

## Switching to the VC+ System

The following paragraphs describe the procedure for switching from the primary system to the VC+ system. It is recommended that you read through all the steps before attempting to switch to the VC+ system.



1. Purge the HELLO and FTN7X files that come with the primary system from directory PROGRAMS because they will not execute on the VC+ system. (If you are not familiar with the RTE-A system, you may want to enter RU,HELLO to run the HELLO program before you purge it.)

```
CI> pu /programs/hello.run
```

```
CI> pu /programs/ftn7x.run
```

2. Mount LU 57, which contains the VC+ software.

```
CI> mc 57
```

3. Rename the primary snap file in directory SYSTEM.

```
CI> rn /system/snap.snap primary.snap
```

The VC+ system also uses a snap file called SNAP.SNP; therefore, by renaming the primary snap file, you can reboot the primary from the snap file PRIMARY.SNP if there is a problem with the VC+ system.

4. Edit the primary boot command file (/system/boot.cmd) to change the name of the snap file in the SN command to PRIMARY.SNP. If you have to reboot the primary system, the primary boot command file will look for the primary snap file which you renamed in the previous step.
5. Copy the system, snap, boot command, and welcome files for the VC+ system to directory SYSTEM.

```
CI> co vcsys::-57 /system/vcsys.sys
```

```
CI> co ^vcsnp::-57 /system/snap.snap
```

```
CI> co vcboot::-57 /system/vcboot
```

```
CI> co vcwel::-57 /system/welcome2.cmd
```

6. Copy the multi-user programs to directory PROGRAMS.

```
CI> co logon::-57 /programs/@.run
```

```
CI> co prompt::-57 /programs/@.run
```

7. Copy the help file for VC+ to directory HELP.

```
CI> co ?users::-57 /help/users
```

8. Boot the VC+ system by pressing the BREAK key on the system console to get the VCP prompt and entering the following boot command:

```
VCP> %bdivcboot
```

When the boot command has executed, press the RETURN key to get the CI prompt. If the CI prompt does not appear, reboot the primary system by first pressing the BREAK key to get the VCP prompt and then entering the following boot command:

```
VCP> %bdi
```

Check that you performed steps 1 through 7 correctly and repeat step 8.

Note that an RPL checksum error occurs the first time you run each program from the primary system under the VC+ system because the checksum for the system under which the program was linked does not match the checksum of the current system. When the error occurs, the VC+ system replaces the checksum in the program file with the checksum of the current system. The program from the primary system executes correctly the second time it is run.

9. Create the logons for the multi-user environment by mounting LU 57 and running the program USERS.

```
CI> mc 57
```

```
CI> users::-57
```

See the RTE-A Virtual Code+ (VC+) System Extension Package and RTE-A System Generation and Installation manual for information on the program USERS.

10. Modify the welcome (/system/welcome2.cmd) and the boot command (/system/vcboot) files for the multi-user environment.

- If the directory USERS is not on LU 55, add a MC command to either the boot command or welcome file to mount the LU containing the directory.
- If all the terminals are to be enabled for the multi-user environment, remove the following RP commands for CI from the boot command file:

```
rp,ci  
rp,ci,cm
```

- Add an RP,PROMT command to either the boot command or welcome file.

- Each terminal enabled for multi-user environment should have the program PROMT as its primary program. Therefore, for each terminal enabled for the multi-user environment, add one CN (control device) command to the welcome file. Use 20 octal (20B) as the value of the control function parameter. See the RTE-A User's Manual for more details on the CN command.

11. Reboot the system and logon by pressing the BREAK key on the system console to get the VCP prompt and entering the following boot command:

```
VCP> %bdivcboot
```

When the boot command has executed, press the RETURN key to get the logon prompt. The first time you try to logon an RPL checksum error is issued. This is normal and can be ignored. Just press the RETURN key to get the logon prompt, and logon again.

12. After the multi-user environment is working, purge the primary system files, which are no longer needed, to free more space on LU 55.

```
CI> pu /system/system.sys
```

```
CI> pu /system/primary.snp
```

```
CI> pu /system/welcome1.cmd
```

```
CI> pu /system/boot.cmd
```

All of these files are on the set of Primary System microfloppies. If you need any of these files again, you can restore the file from the microfloppy.

13. Run FPACK to pack LU 55. (Refer to the RTE-A Utilities Manual for information on FPACK.)

```
CI> fpack 55
```

14. Rename the VC+ boot command file to the default name so it does not have to be specified in the VCP boot command. This will allow the system to auto boot.

```
CI> rn /system/vcboot boot.cmd
```

15. If you want spooling capabilities, mount LU 57, and copy the spooling programs to directory PROGRAMS and the spooling help file to directory HELP.

```
CI> mc 57
```

```
CI> co sp::-57 /programs/@.run
```

```
CI> co spget::-57 /programs/@.run
```

```
CI> co outpt::-57 /programs/@.run
```

```
CI> co smp::-57 /programs/@.run
```

```
CI> co ?sp::-57 /help/sp
```



16. If your system has spooling, enable spooling when the system is booted by editing the welcome file (/system/welcome2.cmd) to add the following SP command:

```
sp in
```

## Installing Languages

After you have switched to the VC+ system, install the language included in the Value Pack. Once installed, the languages are ready to run on the VC+ system. The files for BASIC and Pascal are on LU 58 under directories BASIC and PASCAL, respectively. The files for FORTRAN are on LU 56 under directory FORTRAN.

See the appropriate configuration guide for information about the programs, libraries, and other files associated with the language products.

# Installing Image

After you have switched to the VC+ system, install Image as follows to allow Image data base access:

1. Copy the data base coordinating program (DBCOP) to directory PROGRAMS.

```
CI> co dbcop::-57 /programs/@.run
```

2. Edit the welcome file to add the following command:

```
rp dbcop
```

The following Image programs can be purged from the fixed disc when they are not being used.

```
DBDS  
DBBLD  
DBSTR  
DBRST  
DBULD  
DBLOD  
DBSPA  
RECOV
```

QUERY can be purged from the fixed disc if it will not be used. If QUERY is being used, its help file ("QSHELP) must be on a FMGR LU.

Refer to the HP 92069A and 92073A Image/1000 Configuration Guide for more information.

# Chapter 3

## Loading the Value Packs

This chapter provides procedures for loading the Value Pack software from microfloppies to a 15 megabyte disc. (The Value Packs are ordered as system Options 121, 122, and 123.) You must load the Value Pack software in the following order:

1. Load the VC+ package into your RTE-A system.
2. Load the language feature product.
3. Load the Image feature product.
4. Add the graphics libraries.

After all the Value Pack software has been loaded, backup type 6 files, and the new system, snap, and boot command files on microfloppy or other removable media (for example, magnetic tape) so the files can be restored to the fixed disc when needed. The following programs are too large to fit on a microfloppy and, if used, must be kept on the fixed disc:

QUERY (from Image)  
BASIC, RBEX, CBASIC (from BASIC)  
PASCOMP or PCL (from Pascal)

All the programs from the Value Pack will not fit on LU 55, which already contains the programs and files for the primary system. Refer to the chapter on Disc Management for help in deciding which programs should be purged from LU 55 when you need more space. All the programs that come on LU 55 are on the set of microfloppies that come with the system and can be restored to the fixed disc when needed.

Read the entire chapter before attempting to load the Value Pack. Also, read the installation/configuration guide for the feature products of your Value Pack before regenerating your RTE-A system. The installation/configuration guides, which indicate what needs to be added to the generation answer file, are as follows:

Product	Manual
VC+	RTE-A Virtual Code+ (VC+) System Extension Package (part no. 92078-90001)
BASIC/1000C	BASIC/1000C Installation and Configuration Guide (part no. 92857-90002)
IMAGE/1000	HP 92069A and 92073A Image/1000 Configuration Guide (part no. 92069-90003)
Symbolic Debug/1000	Symbolic Debug/1000 Configuration Guide (part no. 92860-90002)
Graphics	Device-independent Graphics Library, Version 2.0, Supplement for HP 1000 Systems (part no. 92861-90001)

FORTRAN installation/configuration information is in file "FTN7X" from the FORTRAN software. Pascal installation/configuration information is in file F/PASCAL/CONFIG\_GUIDE.DOC from the Pascal software.

## Loading VC+

To load the VC+ package, proceed as follows:

### NOTE

*The LU numbers specified in this section apply only to the primary system; you must use the LU numbers appropriate for your system when performing these procedures.*

*The HELLO and FTN7X programs that were supplied with the primary system cannot run on the regenerated system.*

1. Initialize LU 57 to hierarchical file format.

### CAUTION

*All files on LU 57 will be purged as a result of this command; therefore, backup any files that you want to keep.*

```
CI> in 57 ,, ok
```

2. Create a global directory named MS.

```
CI> crdir /ms 57
```

3. Copy the master software from the microfloppies labeled "MICRO-FLEXIBLE DISC #xx" to directory MS by inserting each floppy into the drive, mounting the drive, copying the files, and dismounting the drive (xx is the number of the microfloppy).

```
CI> mc 39
CI> co @::-39 /ms/@
CI> dc 39
```

4. Copy the VC+ software from the microfloppies to directory MS by inserting each floppy into the drive, mounting the drive, copying the files, and dismounting the drive.

```
CI> mc 39
CI> co @::-39 /ms/@
CI> dc 39
```

5. Change the working directory to MS.

```
CI> wd /ms
```

6. See the RTE-A Virtual Code+ (VC+) System Extension Package manual for details on generating a new system and loading the VC+ programs. The following is information that you need when using the VC+ System Extension Package manual:

- Your Micro/1000 boots from a CI disc volume (LU 55).
- Your generator answer file should be created on directory MS instead of directory SYSTEM. This saves space on LU 55.
- Your generator list file should be put on directory MS instead of directory SYSTEM. This saves space on LU 55.
- The following RTAGN run string should be used instead of the one specified in the VC+ manual:

```
CI> rtagn /ms/vc.ans /ms/vc.lst /ms/vc.sys /ms/snap.snp
```

- Your new answer file and list files should be backed up on microfloppy or other removable media. (These files do not need to be stored on the fixed disc.)
- The primary answer file (#ANS) should be purged from the fixed disc. (It is on one of the microfloppies in the set for the primary.) This also saves space on LU 55.
- Directory LIBRARIES should be placed on LU 56.



- If your Value Pack contains FORTRAN, you need to copy the library \$FCLBA to directory LIBRARIES. After you have loaded FORTRAN, purge the library to conserve space for other files.
  - If your Value Pack contains BASIC/1000C, you may need to copy either the library PASCAL.LIB or PASCAL\_CDS.LIB to directory LIBRARIES. After you have loaded BASIC, purge the library to conserve space for other files.
7. Change the working directory to PROGRAMS.  

```
CI> wd /programs
```
  8. Backup and purge the program USERS.RUN from the fixed disc.
  9. Initialize LU 57 to clean up after this phase of loading the Value Pack.  

```
CI> in 57 ,, ok
```
  10. Dismount LU 57.  

```
CI> dc 57
```

## Loading the Language

Load the language that comes with the Value Pack after you add the VC+ package to your system. The basic steps for loading the language are as follows:

1. Copy the software to the fixed disc.
2. Link the programs.
3. Clean up.

Each microfloppy that is revision 2401 or later has two special files: HPHPHP and RESTORE\_FLOPPY or FLPRST. File HPHPHP contains the part numbers, software revision codes, module number, numbers of modules, file types, and file names of all software modules on that microfloppy. You should check that your microfloppy has all the software modules listed in file HPHPHP.

Files RESTORE\_FLOPPY, on CI formatted microfloppies, and FLPRST, on FMGR formatted microfloppies, contain the commands needed to copy the software from the floppy to the fixed disc.

## BASIC

BASIC loads from CI formatted microfloppies. Each microfloppy has a global directory F that contains files HPHPHP and RESTORE\_FLOPPY, and subdirectories under which the software modules for BASIC are stored. Before transferring control to file RESTORE\_FLOPPY, make sure that you do not have a global directory F on any other LU.

You will be loading first the BASIC interpreter and then the BASIC compiler. You will be using BASIC microfloppies 1 through 8 to load the interpreter and 9 through 14 to load the compiler. The BASIC Installation and Configuration Guide describes in detail the command files used in the loading process.

To load BASIC, proceed as follows:

1. Initialize LU 58.

```
CI> in 58 ,, ok
```

2. Dismount LU 57 if it is currently mounted.

```
CI> dc 57
```

3. Run the FMGR utility.

```
CI> fmgr
```

4. Mount LU 57.

```
FMGR: mc,57
```

The following message will be displayed at your terminal:

```
FMGR-103  
FMGR-103 Directory is corrupt
```

You can ignore this message.

5. Initialize LU 57.

```
FMGR: in,,-57,57,cr57
```

6. Purge the bootex file created by the initialize command.

```
FMGR: pu,bootex:-32767:-57
```

7. Exit the FMGR utility.

FMGR: *ex*

8. Insert a floppy containing the files needed for loading this part of BASIC into the drive and mount the drive.

CI> *mc 39*

9. List file RESTORE\_FLOPPY.

CI> *li /f/restore\_floppy*

RESTORE\_FLOPPY contains the commands to create directories and copy the software modules from the microfloppy to the fixed disc.

When listing the file, note the use of variable parameter \$1. You will supply a value for this parameter when transferring control to RESTORE\_FLOPPY.

Also, note the file names used in the CO (copy) commands. When you transfer control to RESTORE\_FLOPPY, a file being copied from the microfloppy will overwrite a file on the fixed disc that has the same name and destination path. If you want to save the file currently residing on the fixed disc, either rename the file or copy the file to the removable media before transferring control to RESTORE\_FLOPPY.

10. Transfer control to file RESTORE\_FLOPPY.

CI> *tr /f/restore\_floppy 58*

The number 58 at the end of the command indicates that you want the software copied to LU 58.

RESTORE\_FLOPPY contains CRDIR (create directory) commands. When a CRDIR command is executed and the directory already exists, a duplicate directory error message is issued and execution of RESTORE\_FLOPPY continues with the next command in the file. You can ignore the error message.

11. Dismount the drive.

CI> *dc 39*

12. Repeat steps 8 through 11 until you have copied all files from BASIC microfloppies 1 through 8.

13. Set the working directory to /BASIC/INTERPRETER.

CI> *wd /basic/interpreter*

14. Edit the command file for installing the interpreter (INSTALL\_A\_BAS.CMD) to specify LU 57 as the LINK scratch cartridge. Locate the following two LINK commands in the file:

```
link,rbx_a.lod,lrbx1.lib,rbex.run::programs
```

```
link,bas_a.lod,lbas1.lib,basic.run::programs
```

Modify these commands as follows:

```
link,rbx_a.lod,lrbx1.lib,rbex.run::programs +cr:57
```

```
link,bas_a.lod,lbas1.lib,basic.run::programs +cr:57
```

15. Transfer control to file INSTALL\_A\_BAS.CMD.

```
CI> tr install_a_bas.cmd
```

16. Copy the files for the BASIC compiler to LU 58. These files are on microfloppies 9 through 14. You will need to repeat the following commands for each microfloppy containing files for the BASIC compiler.

```
CI> mc 39
```

```
CI> li /f/restore_floppy
```

```
CI> tr /f/restore_floppy 58
```

```
CI> dc 39
```

See steps 8 through 11 for a complete description of these commands.

17. Set the working directory to /BASIC/COMPILER.

```
CI> wd /basic/compiler
```

18. Edit the command file for installing the BASIC compiler to specify LU 57 as the LINK scratch cartridge. Use file INSTALL\_A.CMD for the compiler with CDS off and file INSTALL\_AC.CMD for the compiler with CDS on.

In both files, locate the following LINK command:

```
link /basic/compiler/install_a.lod
```

Change the command to the following:

```
link /basic/compiler/install_a.lod +cr:57
```

19. Transfer control to the command file you just edited.

```
CI> tr install_a.cmd      (CDS off)
```

```
CI> tr install_ac.cmd    (CDS on)
```

20. Copy the file BEEXEC.REL to the BASIC directory.

```
CI> co /basic/interpreter/bexec.rel /basic/@.@
```

21. Purge the BASIC interpreter.

```
CI> pu /basic/interpreter/ ok
```

## **FORTRAN**

FORTRAN loads from FMGR formatted microfloppies.

To load FORTRAN, proceed as follows:

1. Dismount LU 58 if it is currently mounted.

```
CI> dc 58
```

2. Restore the LINK program.

```
CI> rp link
```

In order to link the FORTRAN relocatable from FMGR, you need to place ID segment for LINK in memory.

3. Run the FMGR utility.

```
CI> fmgr
```

4. Mount LU 58.

```
FMGR: mc,58
```

The following message will be displayed at your terminal:

```
FMGR-103  
FMGR-103 Directory is corrupt
```

You can ignore this message.

5. Initialize LU 58.

```
FMGR: in,,-58,58,cr58
```

6. Purge the bootex file created by the initialize command.

FMGR: *pu,bootex:-32767:-58*

7. Insert a microfloppy containing FORTRAN software into the drive and mount the drive.

FMGR: *mc,39*



8. List the transfer file FLPRST.

FMGR: *li,flprst*

Note the use of the four global parameters in FLPRST. Global parameters 1G (source LU) and 2G (destination LU) are required. Global parameters 3G (security code) and 4G (PURGE existing files of the same name) are optional.

9. Transfer control to file FLPRST.

FMGR: *tr,flprst,39,58[ ,sc,PURGE]*

The number 39 is the LU number of the source LU, and 58 is the number of the destination LU. If you want the files being copied to LU 58 to have security code, specify a value for optional parameter SC. If you want a file on the microfloppy to overwrite a file by the same name that already exists on LU 58, include the word PURGE for the optional fourth parameter. (Note that the brackets indicate optional parameters and should not be entered as part of the command.)

File FLPRST includes a command to dismount LU 39.

10. Repeat steps 7 through 9 for all microfloppies containing FORTRAN software.
11. Follow the installation instructions given in file "FTN7X for linking FORTRAN on an RTE-A system.

To link FORTRAN, use the following command:

FMGR: *link,#ftn7x,ftn7x.run::programs*

This command will place the program FTN7X.RUN in directory PROGRAMS. The size of FNT7X.RUN is 650 blocks (1 block equals 256 bytes).

12. Purge all the files on LU 58.
13. Dismount LU 58.

FMGR: *dc,58*

14. Exit the FMGR utility.

FMGR: *ex*

15. Remove the ID segment for LINK.

CI> *of link id*

## Symbolic Debug/1000

Symbolic Debug/1000 loads from CI formatted microfloppies. Each microfloppy has a global directory F that contains files HPHPHP and RESTORE\_FLOPPY, and subdirectories under which the software modules for Symbolic Debug are stored. Before transferring control to file RESTORE\_FLOPPY, make sure that you do not have a global directory F on any other LU.

To load Symbolic Debug, proceed as follows:

1. Mount LU 58.

CI> *mc 58*

2. Insert a floppy containing Symbolic Debug software into the drive and mount the drive.

CI> *mc 39*

3. List file RESTORE\_FLOPPY.

CI> *li /f/restore\_floppy*

RESTORE\_FLOPPY contains the commands to create directories and copy the software modules from the microfloppy to the fixed disc.

When listing the file, note the use of variable parameter \$1. You will supply a value for this parameter when transferring control to RESTORE\_FLOPPY.

Also, note the file names used in the CO (copy) commands. When you transfer control to RESTORE\_FLOPPY, a file being copied from the microfloppy will overwrite a file on the fixed disc that has the same name and destination path. If you want to save the file currently residing on the fixed disc, either rename the file or copy the file to the removable media before transferring control to RESTORE\_FLOPPY.

4. Transfer control to file RESTORE\_FLOPPY.

```
CI> tr /f/restore_floppy 58
```

The number 58 at the end of the command indicates that you want the software copied to LU 58.

RESTORE\_FLOPPY contains CRDIR (create directory) commands. When a CRDIR command is executed and the directory already exists, a duplicate directory error message is issued and execution of RESTORE\_FLOPPY continues with the next command in the file. You can ignore the error message.

5. Dismount the drive.

```
CI> dc 39
```

6. Repeat steps 2 through 5 for each microfloppy containing Symbolic Debug software.
7. Follow the installation procedure described in the Symbolic Debug/1000 Configuration Guide for linking Symbolic Debug on an RTE-A system.

To link Symbolic Debug, use the following command:

```
CI> link #debna debug.run::programs
```

This command will place the program DEBUG.RUN in directory PROGRAMS.

8. Purge all the files on LU 58 by re-initializing the LU.

```
CI> in 58 ,, ok
```

## Pascal

Pascal loads from CI formatted microfloppies. Each microfloppy has a global directory F that contains files HPHPHP and RESTORE\_FLOPPY, and subdirectories under which the software modules for Pascal are stored. Before transferring control to file RESTORE\_FLOPPY, make sure that you do not have a global directory F on any other LU.

Before loading Pascal, carefully read the file /F/PASCAL/CONFIG\_GUIDE.DOC, especially the section on restoring files into limited disc space.



To load Pascal, proceed as follows:

1. Mount LU 58.

```
CI> mc 58
```

2. Insert a floppy containing Pascal software into the drive and mount the drive.

```
CI> mc 39
```

3. List file RESTORE\_FLOPPY.

```
CI> li /f/restore_floppy
```

RESTORE\_FLOPPY contains the commands to create directories and copy the software modules from the microfloppy to the fixed disc.

When listing the file, note the use of variable parameter \$1. You will supply a value for this parameter when transferring control to RESTORE\_FLOPPY.

Also, note the file names used in the CO (copy) commands. When you transfer control to RESTORE\_FLOPPY, a file being copied from the microfloppy will overwrite a file on the fixed disc that has the same name and destination path. If you want to save the file currently residing on the fixed disc, either rename the file or copy the file to the removable media before transferring control to RESTORE\_FLOPPY.

4. Transfer control to file RESTORE\_FLOPPY.

```
CI> tr /f/restore_floppy 58
```

The number 58 at the end of the command indicates that you want the software copied to LU 58.

RESTORE\_FLOPPY contains CRDIR (create directory) commands. When a CRDIR command is executed and the directory already exists, a duplicate directory error message is issued and execution of RESTORE\_FLOPPY continues with the next command in the file. You can ignore the error message.

5. Dismount the drive.

```
CI> dc 39
```

6. Repeat steps 2 through 5 for each microfloppy containing Pascal software.

7. Follow the installation procedure described in the file /F/PASCAL/CONFIG\_GUIDE.DOC for installing Pascal on an RTE-A system.
8. Purge all the files on LU 58 by re-initializing the LU.

CI> *in 58 ,, ok*

## Loading Image

To load Image/1000, proceed as follows:

1. Dismount LU 57 if it is currently mounted.

CI> *dc 57*

2. Run the FMGR utility.

CI> *fmgr*

3. Mount LU 57.

FMGR : *mc,57*

The following message will be displayed at your terminal:

```
FMGR-103
FMGR-103 Directory is corrupt
```

You can ignore this message.

4. Initialize LU 57.

FMGR : *in,,-57,57,cr57*

5. Purge the bootex file created by the initialize command by entering the following FMGR command:

FMGR : *pu,bootex:-32767:-57*

6. Exit the FMGR utility.

FMGR : *ex*

7. Copy the software for Image/1000 to LU 57 by inserting each floppy into the drive, mounting the drive, copying all the files from the floppy to LU 57, and dismounting the drive.

CI> *mc 39*

**NOTE**

*Before copying the files from the floppy, use DL to determine if the file %NO/DS is on the floppy. It needs to be renamed from FMGR before it is copied.*

FMGR: *rn,%no/ds:1:-39,%no\ds*

CI> *co @:-39 @:-57*

CI> *dc 39*

8. Follow the installation procedure for installing IMAGE/1000 on an RTE-A system in the HP 92069A and 92073A Image/1000 Configuration Guide.

Use LU 57 for both the <source cr#> and the <dest cr#>.

9. Purge from LU 57 all the files that are not needed. Do not purge type 6 files (programs) and new libraries.

10. Backup all new programs and libraries on removable media (microflops or magnetic tape). Program QUERY must be kept on the fixed disc because it is too large to be backed up on microflops.

11. Make room on LU 55 by doing the following:

- Purge unneeded files in directory PROGRAMS.
- Run FPACK on LU 55.

CI> *fpack 55*

12. Copy the data base coordinating program (DBCOP) to directory PROGRAMS.

CI> *co dbcop::-57 /programs/@.run*

## Loading Graphics

When loading graphics, copy only the graphics libraries needed by your program from the microflops to the fixed disc. Purge the graphics libraries from the fixed disc when you are finished.

# READER COMMENT SHEET

## USER'S GUIDE FOR DISC MANAGEMENT AND VALUE PACK LOADING

5955-8890

June 1984

Update No. \_\_\_\_\_  
(if Applicable)

We welcome your evaluation of this manual. Your comments and suggestions help us improve our publications. Please use additional pages if necessary. If you have technical questions or if you want to order publications, make your inquiries to a representative of your local HP office. Thank you for your comments! No postage necessary if mailed in the U.S.A.

---

**FROM:**

**Name** \_\_\_\_\_

**Company** \_\_\_\_\_

**Address** \_\_\_\_\_

\_\_\_\_\_

**Phone No.** \_\_\_\_\_ **Ext.** \_\_\_\_\_

FOLD

FOLD



NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

**BUSINESS REPLY MAIL**

FIRST CLASS PERMIT NO. 141 CUPERTINO, CA.

— POSTAGE WILL BE PAID BY —

**Hewlett-Packard Company**  
Data Systems Division  
11000 Wolfe Road  
Cupertino, California 95014  
**ATTN: Technical Publications**



FOLD

FOLD





---

**MANUAL PART NO. 5955-8890**  
**Printed in U.S.A. June 1984**  
**E0684**

**HEWLETT-PACKARD COMPANY**  
**Data Systems Division**  
**11000 Wolfe Road**  
**Cupertino, California 95014**