

## **Copying a LIF Disk Using LIF Utilities**

## **Question:**

Can I make a backup copy of my LIF disk using the PC?

## Answer:

Yes, <u>but not on Windows NT</u>. It is usually advisable to make a backup copy of a LIF disk containing programs, just in case the working copy gets lost or corrupted. Not all instruments have the capability of copying diskettes. The following procedure will allow you to make copies of LIF disks using LIF Utilities on your PC, provided you are running Windows 3.1x/9x.

- A. Make a temporary folder on your hard disk. Start Windows Explorer.
  - 1. Highlight the C: drive.
  - 2. Click on File New Folder
  - 3. Name folder "LIF" (or other appropriate name).
- B. Start Lifarc.exe and copy files from the LIF Utilities diskette to the new folder.
  - In Windows Explorer, double click on Lifutil.exe. If you don't have LIF utilities you can download the self-extracting file from the Agilent web site.
  - 2. The following screen indicates the recommended settings:



- C. Format a double-sided double density disk in LIF format.
  - 1. Click on "LIF disk status" in the LIF Utilities program to find disk parameters, as shown here:



2. Click on "LIF Initialize" in the LIF Utilities program to format the disk, as shown here:



3. Use the settings found earlier with "LIF disk status", as shown here:

🕌 LIFUTIL
Hewlett-Packard LIF Utilities for the PC Version $\lambda.00.03$
Copyright (c) Hewlett-Packard Co. 1990-92. All rights reserved.
LIF Initialize
LIF drive name: A:
Disk type: 3 1/2" double sided
Sector size: 256 bytes (disk capacity = 616 KB) Interleave: 1
Directory size: 192 files
Volume label: HPLIF
Flexible disk drive in which disk will be initialized.
1 NEXT 2 PREV 3 NEXT 4 PREV 5 START 6 CONFIG 7DEFAULT 8 MAIN
CHOICE CHOICE FIELD FIELD EXT DRIV VALUE MENU
🙀 Start 🛃 Action Man 🔣 LIFUTIL 💓 Microsoft W 🔍 Exploring - ( 👯 MXD PC Pr 🖷 🔗 10:35 AM

D. Copy files from DOS folder to new LIF diskette. The following is a screen with recommended settings:

🚜 LIFUTIL		_ 8 ×	
Auto 💽 🖽 🖻 🛃 😭 🗛			
Hewlett-Packard LIF Utilities for the PC Version A.00.03			
Copyright (c) Hewlett-Packard Co. 1990-92. All rights reserved.			
DOS to LIF Copy			
DOS directory name:	c:\LIF	10 M	
DOS file name:	Entire directory		
LIF drive name:	A:		
Copy as:	Same as source file		
File name conversion:	Prefix & Extension		
Duplicate file name:	Make unique name		
File format conversion:	DFS to LIF: file type preserved		
How to use LIF disk:	Zero disk and copy		
	avoid overwriting purged files. "Use empty	and the second sec	
overwrites purged files.	"Zero disk and copy" overwrites the whole d	isk.	
1 NEXT 2 PREV 3 NE CHOICE CHOICE FIE	XT 4 PREV 5 START 6 7DEFAULT LD FIELD VALUE	8 MAIN MENU	
🙀 Start 🕹 Action M 🕎 Microsoft	🕅 MXD PC 🔍 Exploring 🔀 LIFUTIL	🚴 12:52 PM	

E. Verify the integrity of the new disk by running the programs, viewing the data, or at least by checking to see if the files are the same size as the files on the original disk. You can use "LIF catalog" to compare file sizes. The following shows this selection highlighted:

🚜 LIFUTIL		
Hewlett-Packard LIF Utilities for the PC Version A.00.03		
Copyright (c) Hewlett-Packard Co. 1990-92. All rights reserved.		
MAIN MENU		
MAIN MENO		
LIF to DOS Copy		
Copy LIF file(s) or an entire LIF disk to a DOS disk/directory.		
DOS to LIF Copy		
Copy DOS file(s) or an entire DOS directory to a LIF disk.		
LIF Catalog		
Catalog a LIF disk or selected files in HP BASIC format.		
LIF Purge File		
Purge LIF file(s) from a LIF disk.		
Zero LIF Disk		
Reinitialize a LIF directory without reformatting the disk.		
LIF Disk Status		
Display LIF disk type/characteristics and disk usage statistics.		
Perform hexadecimal dump/edit of a LIF disk or file.		
LIF Initialize		
Initialize disk in HP LIF format.		
Nove the highlight to the desired function using the cursor keys or a mouse.		
Press [Enter] to select the function or press [Esc] to exit this program.		
Press [Alt]-[D] to execute a DOS command within this program.		
🙀 Start 🛃 Action M 🕅 Microsoft 🐺 MXD PC 🔍 Exploring 🗱 LIFUTIL 🔗 12:58 PM		