



# File Backup And Restore

For HP-362 Computers

Users Guide



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## Introduction

*HP 362 File Backup and Restore* is a program, which allows you to easily backup all files with READ privileges on the hard drive of a HP362 computer. Upon hard disk failure, bringing your system back up is as easy as installing a new hard drive, formatting it, and running this program. Features include:

- 1- Allows user to back up all files with READ privileges to floppy disk
- 2- Allows user to restore all files from floppy backup set, to hard disk
- 3- Allows user to restore selected files from floppy backup set, to hard disk.

This program requires the following hardware:

- 1- Hewlett Packard model 362 computer, with hard drive
- 2- 3.5" Floppy Drive
- 3- Structured Software's HPL 2.0 Plus operating system

## Licensing

Structured Software's HPL 2.0 Plus operating system is a licensed operating system, which has an embedded key code. Upon starting the operating system, the system attempts to match this code with an external "hardware security key". This key is usually between the keyboard and the computer. Upon a match, the operating system boots up normally.

*HP 362 File Backup and Restore* also uses this security key system. Each purchased copy has a key number embedded in the code for each license purchased. When ordering, the buyer must supply a key number to Stepper Equipment Inc, for each license purchased. This number is on the hardware key between the keyboard, and the computer. This software will not run without the appropriate security key attached to the computer.

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## Startup

To start the *File backup and Restore* program:

- 1- Place the program diskette in the 3.5" floppy drive
- 2- Press *SHIFT* and *RESET* simultaneously to stop whatever program is running
- 3- Type in the following exactly as shown in bold: **erase a**
- 4- Press the *SELECT* key. The computer will be reset
- 5- Type in the following exactly as shown in bold: **get "filebackup:s1400,0"**
- 6- Press the *SELECT* key. The program will be loaded into memory
- 7- Type in the following exactly as shown in bold: **run**
- 8- Press the *SELECT* key. The program will start

## Backup

The Backup function will archive ALL files that have the "R", READ attribute set, on a set of 3.5" high-density floppy diskettes. Files that do not have the "R" attribute set, cannot be read, and therefore, cannot be copied onto the backup diskette. To back up files with the "R" attribute set, you must use the utility program "Hard Disk Backup". Note that this utility does not permit single file backup. To back up your files to diskette:

- 1- Select number 1 from the main menu, *Backup all files from hard disk to floppy disk*
- 2- Press the 'Y' key to the prompt "*Backup all files on hard disk*". The program will calculate how many directories, files, sectors to back up, and how many floppy disks are needed
- 3- Obtain the appropriate number of 3.5" high-density floppy diskettes needed, and label them "Disk1", "Disk2", "Disk3", .....
- 4- At the prompt "*Place disk # x into drive, F3 to CONTINUE*", place the floppy diskette labeled "Disk1" in the 3.5" drive, and press K3.
- 5- The program will prompt, "*CAUTION, ALL DATA ON FLOPPY WILL BE ERASE! INIT FLOPPY?*". Press 'Y' to this prompt to start floppy initialization
- 6- After initialization, the program will create the same directory structure on the floppy disk that exists on the hard drive. Files will be saved in the same directory on the floppy, as the directory they are in on the hard drive. When the directories are created, the program will start copying files from the hard drive, to the first floppy disk. When this disk is full, the user will be prompted to place the next floppy disk in the drive. Continue this process (step 4,5,and 6) until all files have been copied.
- 7- After the last diskette has been written, you will be prompted to "*Place disk #1 into drive, F3 to continue!*". Place the first diskette back into the drive, and press K3. The program will write a data file detailing all files that have been copied during the backup. Once this is completed, the backup process is complete.

## Restore all files

The *Restore all files* function copies all files from a backup set, onto the hard disk. All files are placed in their respective directories on the hard disk. If the directories do not exist on the hard disk, they are created. If a file in the backup set already exists on the hard disk, it is automatically deleted, and the file on the backup set is copied to the hard disk. The exceptions to this are files with the WRITE (W) attribute disabled. These files cannot be deleted from the hard disk, and are skipped. The only way you can copy files with the (W) attribute disabled in the backup set, is to format the hard disk before running the *Restore All Files* function. To restore all files in a backup set to the hard disk:

- 1- (Optional) Format the hard disk by:
  - a. Press the SHIFT and RESET keys simultaneously
  - b. Type the following: `init ":s1406,0",302`
  - c. Press the SELECT key. The hard disk will be formatted. ALL DATA WILL BE ERASED FROM THE HARD DISK! Note that we require you to type this in manually, preventing accidental formatting of the hard disk when running this program!
- 2- Start the *File Backup And Restore* program using the instructions in the STARTUP section of this manual
- 3- Select number 2 from the main menu, *Restore all files from floppy to hard disk*

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- 4- Press the 'Y' key to the prompt "*Restore all files from backup set?*".
- 5- At the prompt "*Insert backup disk # 1, press F3 to CONTINUE*", place the floppy diskette labeled "Disk1" in the 3.5" drive, and press K3.
- 6- The program will now perform the following:
  - a. Read in the data file on backup disk #1, calculating how many directories, files, and sectors there are to back up, and how many floppy disks are in the backup set.
  - b. Verify that all directories, and subdirectories exist on the hard drive. If they are missing, they will be created.
  - c. Sort all files in the backup set, according to the disk # they are on.
  - d. Start copying files from disk #1, onto the hard drive.
- 7- Once all files from disk #1 are copied, the user will be prompted to insert the next disk from the backup set. Continue this process until all files have been restored from all of the backup disks.

### Restore single files

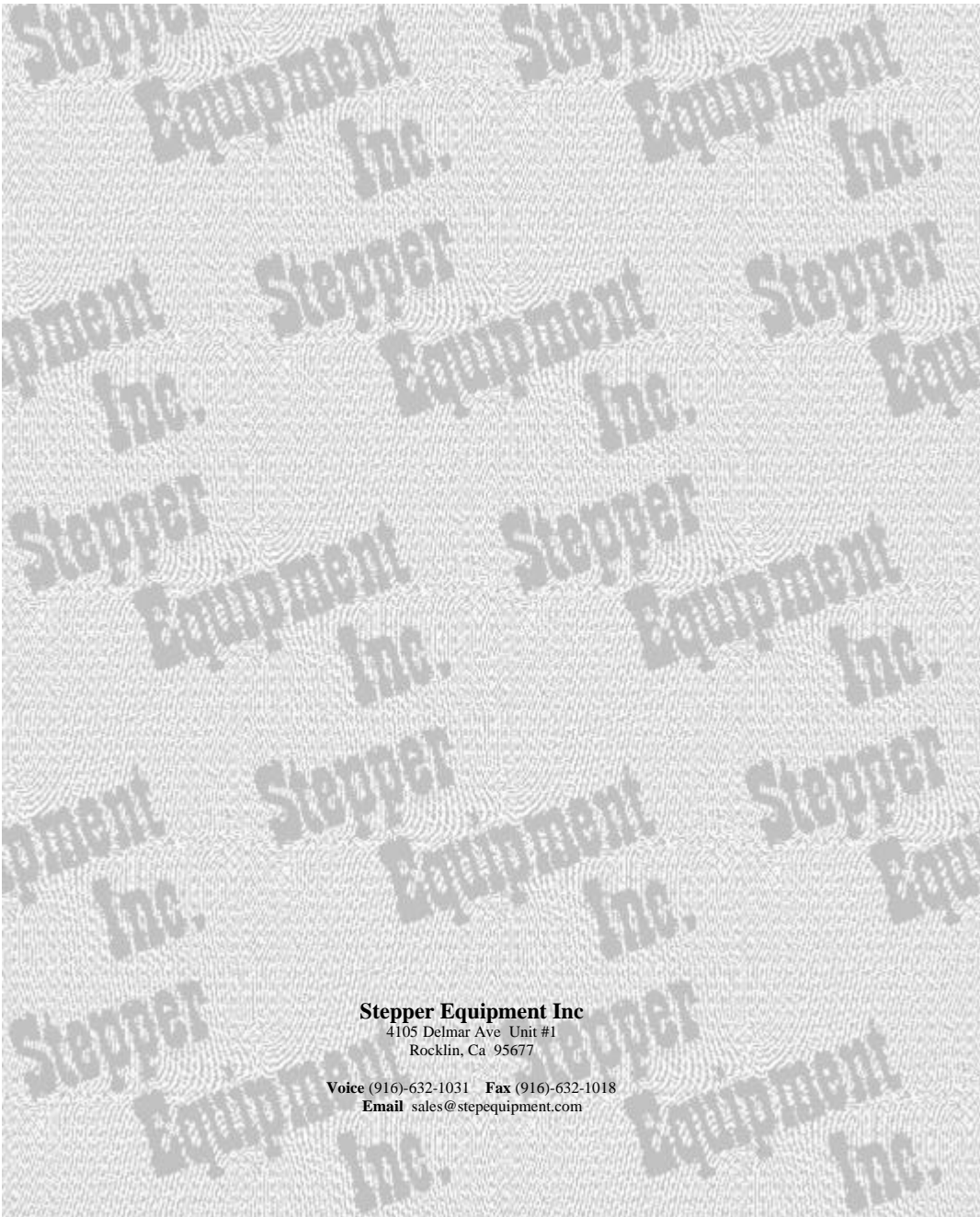
The *Restore single files* function copies user selected files from a backup set, onto the hard disk. Selected files are placed in their respective directories on the hard disk. If the directories do not exist on the hard disk, they are created. If a file in the backup set already exists on the hard disk, the user is given a choice whether to OVERWRITE the file on the hard disk, or abort. If the destination file on the hard disk does not have the (W) or (M) attribute set, then these files cannot be deleted from the hard disk, and are skipped. The only way you can copy files with the (W) attribute disabled in the backup set, is to format the hard disk, and run the *Restore all Files* function. To restore selected files in a backup set to the hard disk:

- 1- Start the *File Backup And Restore* program using the instructions in the STARTUP section of this manual, if not already running.
- 2- Select number 3 from the main menu, *Restore single files from floppy to hard disk*
- 3- Press the 'Y' key to the prompt "*Restore Individual files from backup set?*".
- 4- At the prompt "*Insert backup disk # 1, press F3 to CONTINUE*", place the floppy diskette labeled "Disk1" in the 3.5" drive, and press K3.
- 5- The program will read in the data file on backup disk #1, calculating how many directories, files, and sectors there are in the backup set. It will then display a list of all the files in the backup set. The list contains the following, from left to right:
  - a. NUMBER: used to select a file to restore
  - b. DISK: displays what backup disk the file is stored on
  - c. FILENAME: name of the file
  - d. DIRECTORY: Directory and subdirectory that the file is stored in
  - e. SECTORS: How many sectors the file requires for storage
  - f. MRW: Display file attributes, described as follows:
    - i. M- Manager, controls the rights to delete or rename a file

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- ii. R- Read, controls the rights to READ, or GET a file
  - iii. W- Write, controls the right to change the contents of a file.
- 6- The user will now be presented with the following choices:
- a. UP ARROW: scrolls the display up 1 page
  - b. DOWN ARROW: scrolls the display down 1 page
  - c. R: Restores a single file
  - d. F8- returns to the main menu
- 7- To restore a file
- a. Use the arrow keys to display the file you would like to restore
  - b. Press the R key
  - c. Enter the number of the file you would like to restore, and press F3
  - d. If the file already exists on the hard drive, you will have the choice to OVERWRITE the file, or skip it.
  - e. If necessary, you will be prompted to place the backup diskette containing the file you selected into the floppy drive.
  - f. The selected file will be copied.





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