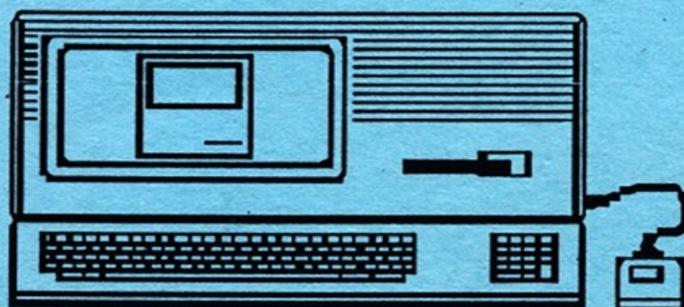


HFS/SD

MacWorks XL 4.5
(a modification to MacWorks 3.0)



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Disclaimer

This copy of HFS/SD MacWorks 4.5 is a beta program. We have to classify it as a beta program not because of bugs, but because the program which creates the bootable disk (HFS/SD MacWorks 4.5) is not yet completed. It is against Apple Computer policy to authorize any company to ship a bootable modification to MacWorks 3.0. You will receive your creator program in the mail soon. It will ship with the production copy Version 6.0. Until then, please use the enclosed HFS/SD MacWorks 4.5 disk with our compliments.

Thank you

NOTE: We suggest that you read through this manual in its entirety to ensure that you are aware of the proper way to install HFS/SD MacWorks XL 4.5 on your computer system.

What is HFS/SD MacWorks 4.5?

HFS/SD MacWorks 4.5 is a Hierarchical File System, Slot-Driven modification to MacWorks 3.0. MacWorks 3.0 allowed the Lisa to emulate a standard 512K Macintosh with an MFS flat-file system. HFS/SD MacWorks 4.5 emulates a Macintosh 512 using the HD-20 Init to create a hierarchical filing system. It is not a MacPlus emulation; however, it will support 800K drives.

Slot-Driven means that it automatically checks if any additional profiles are attached to the Lisa via the expansion slots. If they are Macintosh-formatted, it will mount them to the desk top. Hard drives formatted via MacWorks Plus® are not compatible in their identification signatures; therefore, HFS/SD MacWorks 4.5 will not automatically mount them to the desktop.

What is included in HFS/SD MacWorks 4.5?

- One (1) HFS/SD MacWorks 4.5 Disk
- One (1) HFS/SD MacWorks System Disk which includes HFS Hard Disk Install 3.0
- Standard Unmodified System 4.0 and Finder 5.5

What is the proper way to get started?

If you are currently using any version of MacWorks, including MacWorks 3.0® or MacWorks Plus®,

back up your hard drive to floppy disk.

You can use any of the backup software you wish (such as HD Backup from Apple Computer) or just use the Finder to drag your files from a hard drive to a floppy disk. **Be sure to do this first as HFS/HD Install will initialize your hard drive and all the information on your hard drive will be lost!!!**

If you are using 2-Port Install or Multi-Port Install to access extra external hard drives, back those drives up also. HFS/SD MacWorks 4.5 has support for adding extra external drives built into the software program. For more information, see "Adding Extra Drives".

After you have backed up your drives (don't forget to back up the DA's and fonts used in your system), then

shut down your computer.

Now, turn the computer back on. Upon powering up your system, you will see the diagnostic icons on the screen. While the memory icon is dark, press the space bar several times. This will bring you to what is known as the "Start Up From" menu.

At this time, place the HFS/SD MacWorks disk in the floppy disk drive and choose the icon that looks like a floppy disk slot on the screen (Command 2). The machine will boot from the floppy disk and then eject the disk.

If the screen shows a sad Mac and the letters "foo64" are under it, this means that MacWorks was unable to properly load one of its system resources. This is not a problem.....after about 10 seconds, hold down the option key on the keyboard and push the on-off switch on the computer. This will signify to the computer that you wish to boot the system from the floppy disk drive.

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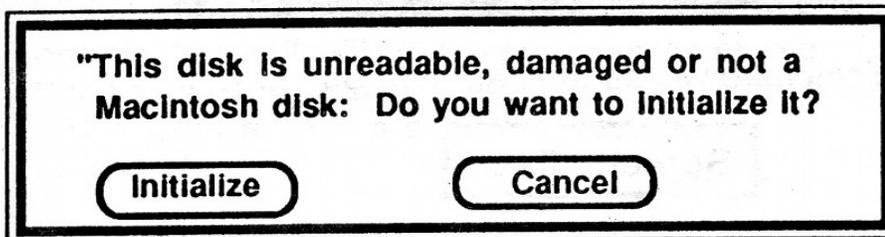
At this time, place the HFS/SD MacWorks disk in the floppy disk drive and choose the icon that looks like a floppy disk slot on the screen (Command 2). The machine will boot from the floppy disk and then eject the disk.

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You will then see a flashing icon that looks like a floppy disk with a question mark through it. Insert the HFS/SD MacWorks system disk and the computer will boot to the normal Macintosh desktop.

- Open the application "HFS/HD Install 3.0" (in the Utilities Folder) by using the menu or by clicking twice upon it. The application will recognize either a Profile or a 10-megabyte drive and the **first screen will be one of three dialog boxes:**

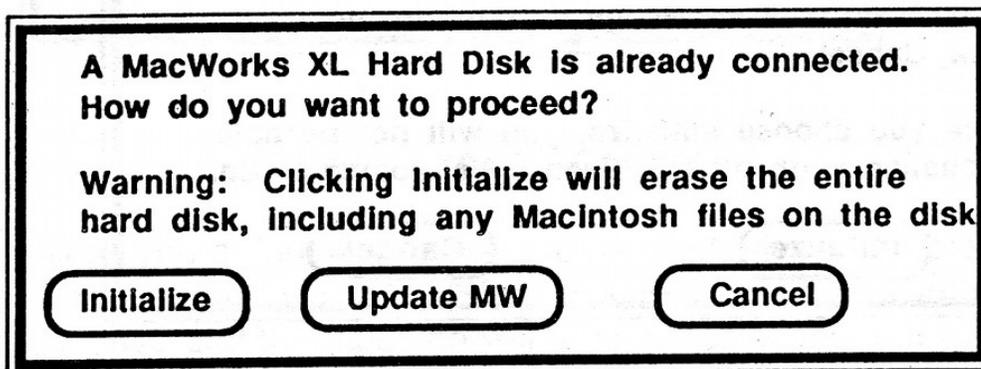
Box 1 will state:



You will be presented with two choices for this dialog box:

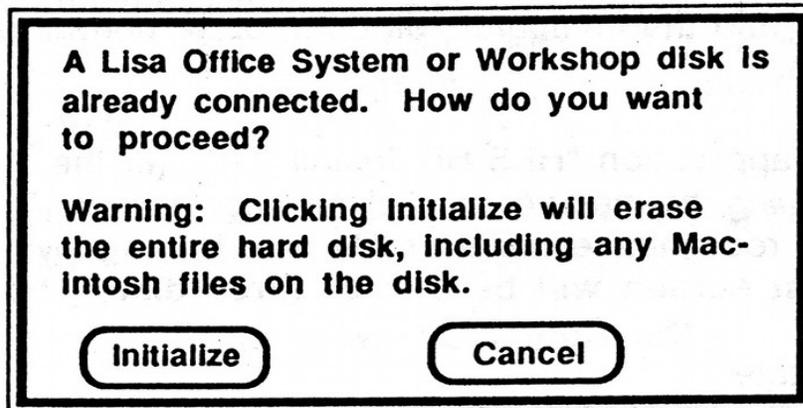
1. Cancel- Use this if you do not wish to initialize the drive.
2. Initialize - This will initialize and take you automatically to a second screen.

Box 2 will indicate the following:



Your choices are the same as for Box 1.

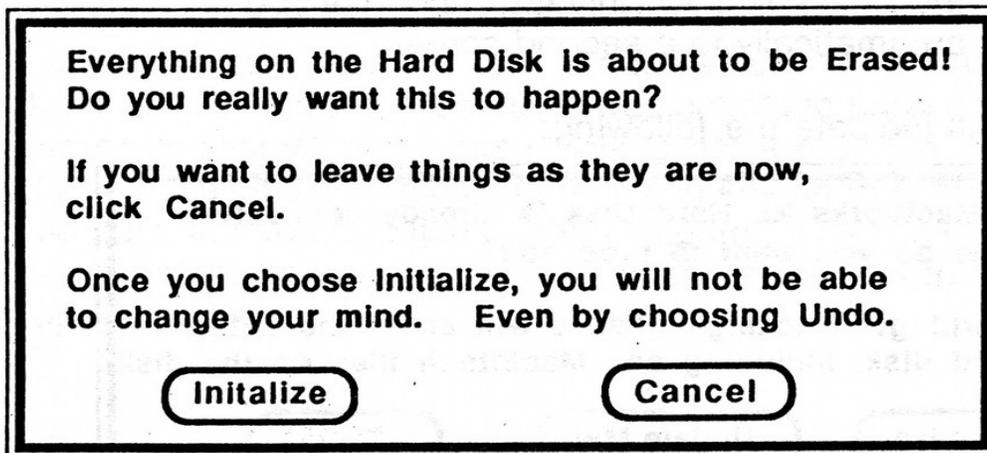
Box 3 will state:



The two choices here will be the same as Box 1.

Screen Two

Screen Two is the screen of last resort. Once you choose Initialize from this screen, you cannot change your mind nor can you recover the data that is on the hard drive. The screen says this:



- Once you choose Initialize from Screen Two, you will see a new screen which will state:

**Initializing Disk - this will take about
1 minute and 20 seconds.**

The initialization process will take somewhere between 1 to 8 minutes, depending on the type of disk you are initializing.

- Once the Initialization is complete, you will then see the following screen:

**Hard Disk Install will now copy an image of your
MacWorks XL Disk on to the hard disk. This is the
first step in making a complete MacWorks XL
Hard Disk.**

OK

Once you click OK, the floppy disk will eject and you will see a new screen which states:

**Please insert your MacWorks XL disk for
Installation on the hard disk.**

Cancel

Do not choose Cancel

....unless you do not wish a MacWorks hard drive to be created. Simply insert your HFS/SD MacWorks XL 4.5 disk into the floppy drive and the machine will automatically begin to transfer the information to the hard drive. You will see the following screen(s) while this is happening.

- **Reading from the MacWorks XL Disk**

- Another screen will say:

**Transferring the MacWorks XL Disk
Image to the Hard Disk.**

When it is completed, the HFS/SD MacWorks XL 4.5 disk will automatically eject.

- The following screen will appear:

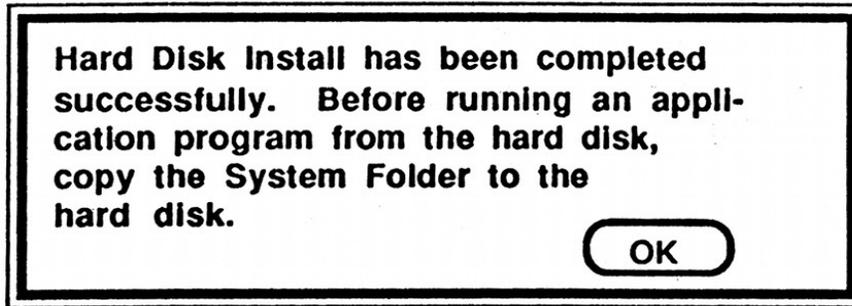
**Please Insert the disk
TLS/SD System Disk**

This is referring to your original HFS/SD MacWorks 4.5 System Disk. Wait 10 - 15 seconds for the disk to mount. A screen will appear asking you to:

Please Name This Disk
Hard Disk

While "Hard Disk" appears as a default name, you may name it anything you wish. Wait approximately 10 seconds if you wish it to retain the name "Hard Disk" - then just press the Return key on your computer.

- You will then hear a beep and this message will appear on your screen:



Copying the contents of the System Folder to the hard disk is necessary to run applications from the hard disk properly. To make the copy, simply select the System Folder icon and drag it over the new Hard Disk icon.

Warning: Occasionally, after the screen asking you to name the hard disk is chosen, the above screen will begin to appear and a system bomb will occur. Do not be alarmed. The floppy disk has not had time to mount and the computer is attempting to read the system off an unmounted floppy disk. All you have to do is wait approximately 10-20 seconds, hold down the command key and push the On-Off button. This will tell the computer to start up from the system on the floppy disk. The desktop will then appear showing the hard drive as a second volume. This will be corrected in a future version.

- If you have a LISA 2, when you wish to use your computer, turn on the hard drive and simply push the On-Off button on your computer and it will boot into the Macintosh environment automatically mounting any external drives which have previously been initialized as MacWorks volumes.

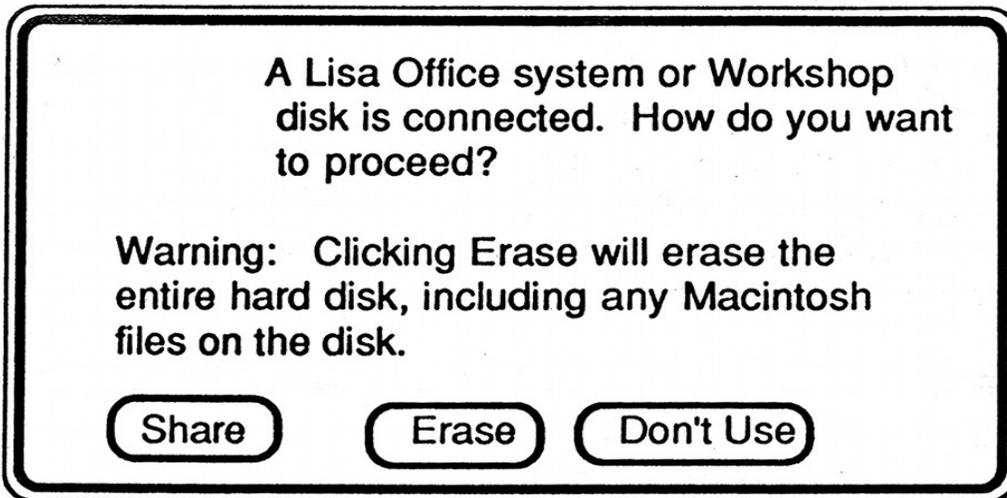
- If you have a Macintosh XL, simply push the On-Off button and the computer will boot into the Macintosh environment automatically mounting any external drives which have previously been initialized as MacWorks volumes.

Creating a Lisa/Mac Shared Disk

To initialize a hard disk as a shared Lisa/Macintosh drive, you must first use the Lisa Office System install program (contained on the Lisa Office System I disk). This procedure is explained in the software installation portion of the Lisa Office System manual.

Note: You can only disk share on Apple Computer's Release \3.0 Lisa software or subsequent releases.

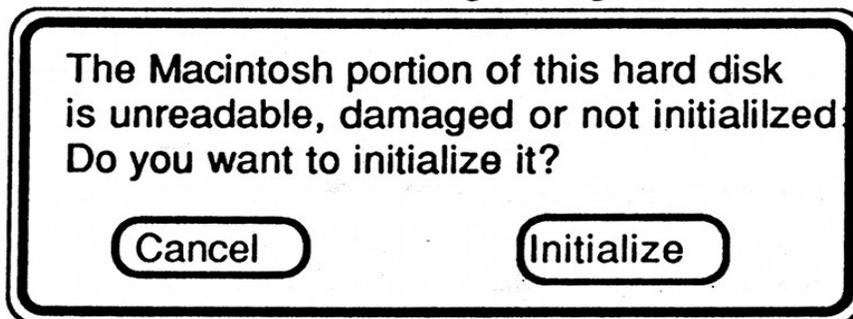
- If you currently have Lisa Office System or Workshsop files on your hard disk, first backup any files you wish to save onto diskettes. (Disk partitioning cannot save files already stored on the hard disk).
- Now follow the step-by-step procedure outlined in the Lisa Office System Manual for installing the new 3.0 software and partitioning the hard disk. You must choose "Erase" the hard disk in order to partition it.
- After using the Lisa Office System install program and installing whatever Lisa software you desire, turn off your Lisa and restart your system with MacWorks.
- When the icon of the disk with the flashing "?" appears on the screen, insert the Hard Disk Install disk into the drive.
- Open the Hard Disk Install application either by double-clicking on its icon or by selecting it and choosing "Open" from the File menu. The program should recognize the Pro-File or the built-in drive as a Lisa formatted hard disk and present the following dialog box:



- Click "Share" to indicate that free blocks on the disk are to be used for Macintosh files.

Clicking "Erase" will reinitialize the entire disk and wipe out all Lisa files; a second dialog box will appear and ask if you are sure you want to do this before the operation is actually executed. Clicking "Don't Use" lets you leave the hard disk as it is.

- After clicking "Share", the program will scan the hard disk to find the area the Lisa Office System install program reserved for Macintosh use. The following dialog box will then appear:

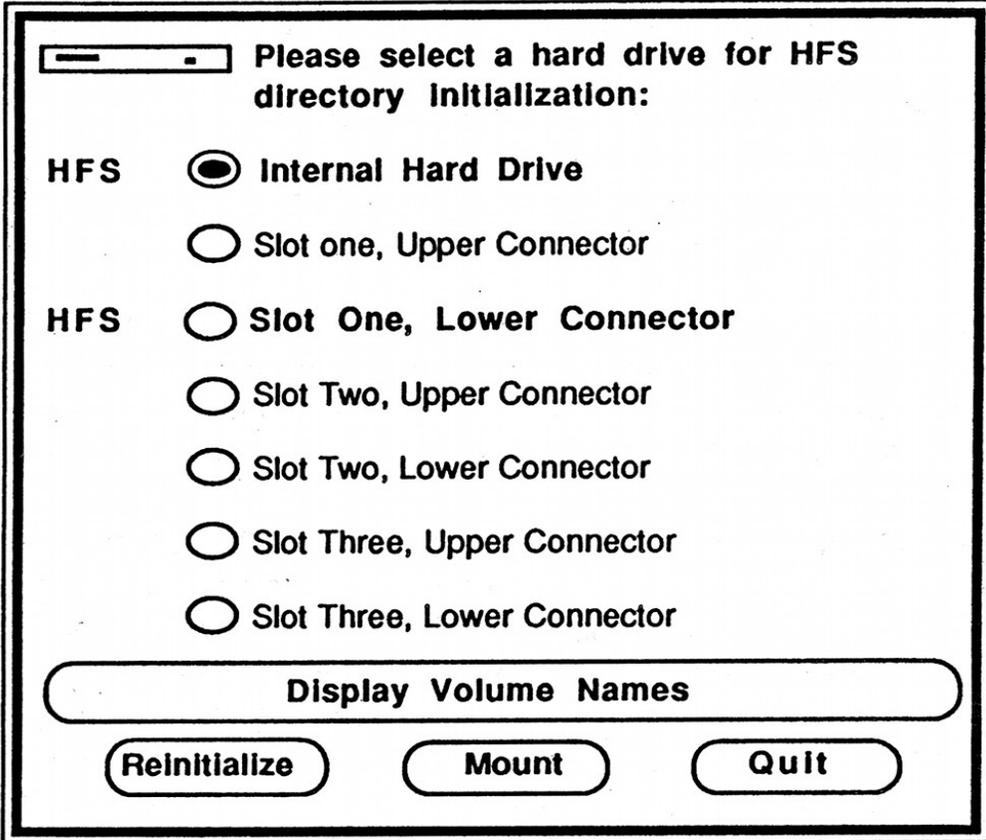


- Click "Initialize."

From this point on, the procedure is identical to that for creating a Macintosh hard disk only, as described in the first portion of this booklet.

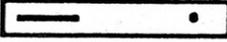
Adding More or New External Drives:

In the Utilities Folder of your HFS/SD MacWorks System Disk, you will find an application called "HFS Init". This application allows you to initialize ProFile Compatible Hard Drives connected to the parallel expansion card of a Lisa. When you first double click on the application to open it, the following screen will appear:



The screenshot shows a dialog box with a title bar containing a minus sign, a dot, and a plus sign. The text inside the dialog box reads: "Please select a hard drive for HFS directory initialization:". Below this text are two groups of radio buttons. The first group is labeled "HFS" and contains three options: "Internal Hard Drive" (which is selected with a filled radio button), "Slot one, Upper Connector", and "Slot One, Lower Connector". The second group is also labeled "HFS" and contains four options: "Slot Two, Upper Connector", "Slot Two, Lower Connector", "Slot Three, Upper Connector", and "Slot Three, Lower Connector". At the bottom of the dialog box, there are three buttons: "Display Volume Names", "Reinitialize", "Mount", and "Quit".

This screen informs you whether you have an MFS or HFS Macintosh file system formatted hard drive or an unknown formatted hard drive, (aka Lisa Office System, Apple III, Workshop, etc) and its location. To find out its name, click on the button which says "Display Volume Names." The following screen will appear:

 Please select a hard drive for HFS directory initialization:

HFS Internal Widget

Slot one, Upper Connector

HFS HFS Widget

Slot Two, Upper Connector

Slot Two, Lower Connector

Slot Three, Upper Connector

Slot Three, Lower Connector

Display Drive Locations

Reinitialize **Mount** **Quit**

If you wish to mount an already initialized Macintosh hard drive volume, choose the button in front of the name or location and click the "Mount" button; then click the "Quit" button.

 **I'm sorry Dave,
I really don't
think I should
do that!**

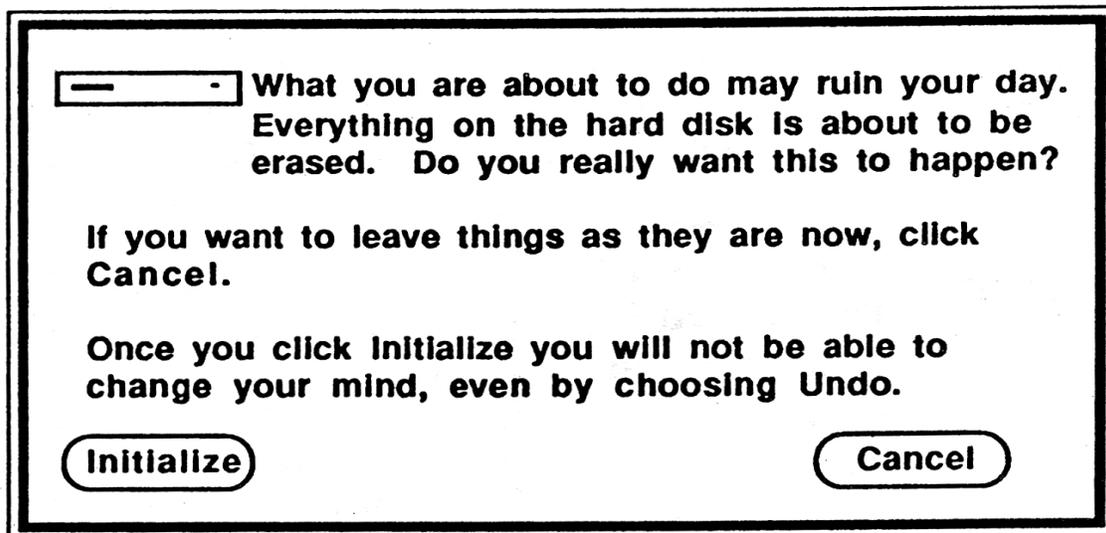
**Please assist me by
selecting a hard drive to
initialize.**

Thank You

This will take you back to the Finder and your new volume should be mounted on the desktop. If you do not choose any drive to either "Reinitialize" or "Mount" and you choose one of those two buttons, this screen to the left will appear. (Well, at least it's polite!). Click "Thank you."

By clicking "Thank You", it returns you to the previous screen where you can choose which slot your hard drive is attached. After doing that, then click on the button "Reinitialize". This will initialize the directory and B-Tree portion of the drive only. **This is not a security initialization - the data is still there and can be read using sophisticated techniques.** If you wish all of the data to be destroyed, use programs such as "Disk Express" which has a feature that totally erases all data on a drive, or send the drive to us for low-level formatting.

The next screen seen is also known as the screen of last resort. The warning on this screen is not joking. If you do not wish to initialize this drive, click "Cancel" on this screen and quit on the screen prior. This will bring you back to the Finder and all will be as it was! If you wish to initialize it, simply click the Initialize button and it will be taken care of in approximately 10 seconds. You will be then be asked to name the disk.



Good luck - Thank you for your business. If you have any questions, please call us. We would rather help you use this program properly now than have you do something that is very time consuming and expensive to correct.