# FinalData License Agreement

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Published by
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## Overview

There is a recycling function to protect from deleting files by mistake in Windows 95/98/ME.

If you delete files in these systems, those files are moved into the Recycle Bin before they are practically erased from the hard disk drive. You are able to reuse those files just by retrieving them, when needed, from the Recycle Bin.

But because of the limited capacity of the hard disk drive, files in the Recycle Bin must be emptied to regain its capacity. Once emptied, there is no way to retrieve all the data back in Windows itself.

But you can retrieve most (or all) of those data back with the file recovering utility 'FinalData' in Windows.

When you emptied your sensitive files from the Recycle Bin, the operating system (Windows 95/98 and Windows ME) does not erase these files' contents from the disk - it only deletes 'references' on these files from some system tables.

Same fundamentals applies to most of the virus-attack and quick-format.

FinalData can recover your data, even if MBR (Master Boot Record), Boot Sector, FAT, or many others are corrupted. **When most of the other data recovery utilities say "forget it!" FinalData will retrieve your "final data" safely, quickly, and professionally.**

We strongly recommend you to install FinalData before any of the above accidents happen to your computer.

As well as many data recovery companies, many IT managers are currently using FinalData as the most effective data recovery & undelete tool in the world.

# System Requirements

Please check the minimum system requirements stated below. Please delete any of the demo versions before installing FinalData.

*System requirements*

To use FinalData for Window 95/98/ME, we recommend the following setup:
* Windows 95/98/ME
* 8MB RAM or more
* 15MB disk space (recommended)
* 10MB disk space (at least)
* 2X CD-ROM drive
* 256-color VGA resolution

## Installation

Follow these steps to install the program.

1. Start Windows.
2. Insert FinalData CD into CD-ROM drive; then, the Setup program starts automatically.

If the Setup program does not start automatically, follow the steps as below:
1. Double-click **My Computer** icon.
2. Double-click user's CD-ROM drive icon.
3. Double-click **Setup.exe.**
4. During the setup, enter the register serial number provided. Press **Finish** button, and then, the program is now installed.

# Caution

1. Do not install FinalData on the damaged hard disk drive. If the drive data is damaged, or if you want to recover files from it, installing FinalData will risk overwriting the deleted file; thus diminishing your chances of recovery. Therefore, we recommend you to install FinalData before any of the above accidents happen to your computer. If necessary, use the other hard disk drive as the master boot disk with Windows and FinalData installed and attach the original damaged drive as the slave to it. Use the FinalData's Executable File (FinalData.exe), which is located in CD-ROM\FinalData\FinalData.exe, only if you need to. This will run FinalData without installing it, but it does not perfectly eliminate the risk of overwriting few files. Please make sure that even though you run FinalData in this way, you would still have to recover those files to the other hard disk drive such as a:, b:, d:, and e: drive. This is for your maximum safety not to overwrite any valuable deleted files. Overall, the best way to recover any data from any drives is using the prepared master boot disk, which has Windows and FinalData installed.

2. If your hard disk drive is not bootable, you should use another hard disk drive as a master booting drive, and use the damaged hard disk drive as a slave. Therefore, we strongly recommend you to prepare an emergency hard disk drive with Windows and FinalData installed so that you can use it as a master boot disk.

3. FinalData cannot recover data from the physically damaged hard disk drive. Physically damaged hard disk drive occurs when you put it into fire, dropped it into water, and so forth.

4. If the data to recover are partially or mostly overwritten by some other files, and if the files to recover are heavily fragmented, the chance to recover these particular files are less. Overwritten files are indicated as "D", which stands for Damaged Files. Fragmented files are displayed as "F", and these files might not be legible even if you recover them.

"C"(Contiguous) stands for files that have high chances of being contiguous (not broken). These files will have good chances of recovering 100% of the data.

Overall, to prevent from further damages of your valuable data, we do recommend you not to run any Windows Explorer or any other data recovery utilities except FinalData.

Running Windows Explorer might create temporary files somewhere on your hard disk drive; thus this operation must be handled with extra care to prevent from overwriting your data.

**FinalData Professional Version can recover the fragmented data due to most of the above operations.** Please visit for more information on the FinalData Professional Version at http://www.finaldata.com.

5. FinalData does not write anything to the damaged hard disk drive. It is designed like that for your maximum safety. Therefore, you must save or recover your data to the other drives.

6. If the file, which has been recovered by FinalData, contains broken characters and illegible codes, this means that that particular file was previously fragmented or overwritten by some temporary files caused by the operation of Windows Explorer or other utilities. In this case, you might be able to read some or most of the file by using the Microsoft Viewers for Word, Excel, PowerPoint, Publisher, and so forth. You can download these viewers for free from the official Microsoft homepages. Directly contact each developer of the applications to receive any technical assistance to read the fragmented portion of a file.
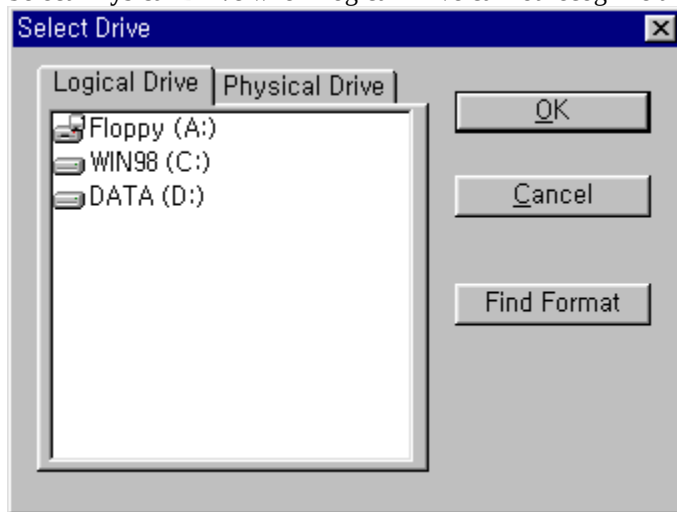
## How to Recover

1. Start FinalData program. (FinalData.exe)

2. Select **Open** from the **File** menu (Ctrl+O).
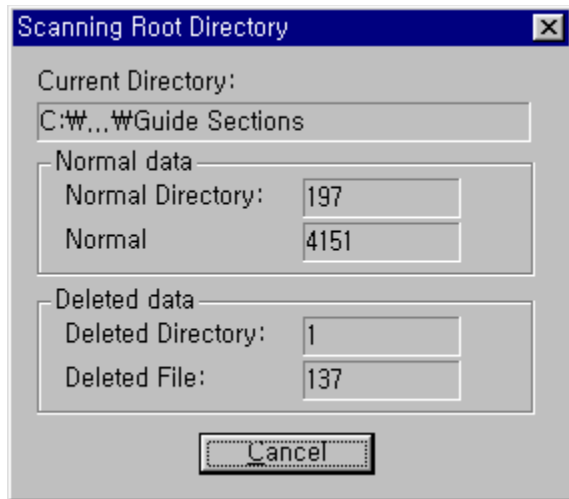(Or Click 📂 in Toolbar)
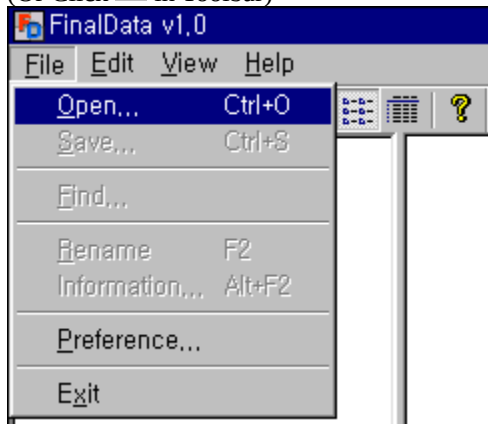


3. Once you have clicked **Open** 📂 from the **File** menu, choose the drive you want to restore to.

Select **Physical Drive** when Logical Drive cannot recognize the Drive.



4. Choose the drive where the files exist. Click the chosen chatting box.

5. The Scanning Root Directory starts to examine.
**(To recover the files, which you deleted and emptied from the Recycle Bin, just click 'Cancel' and restore them. You do not need to scan the data sector if your FAT (File Allocation Table) is good. Do not waist your valuable time doing the unnecessary Disk Scan.)**

6. In cases you accidentally formatted the hard disk drive, or if any virus maliciously attacked your MBR (Master Boot Record), Boot Sector, FAT, or other references, then the **Disk Scan** is necessary.

7. Choose the cluster you want to check, then click the OK button to perform disk search (It is designed to skip if the cluster has bad sectors. When the condition is good, you can search all.)
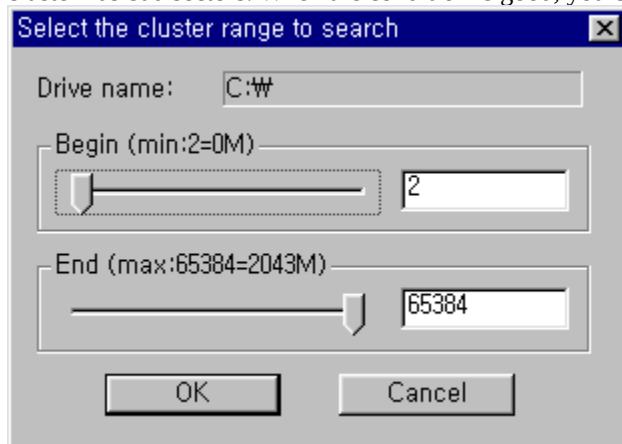


8. **Scan Drive**. (Click **Cancel** button to release.)
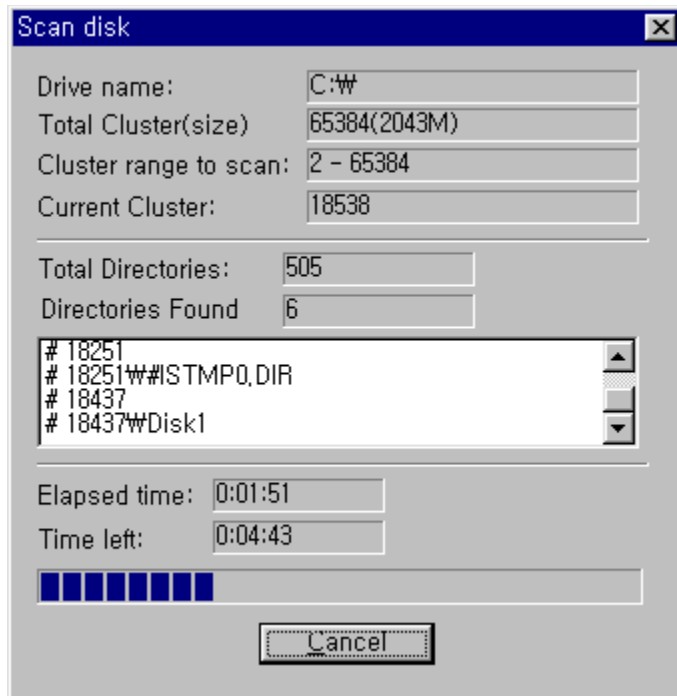
9. Choose the folder to be restored and then click **Save** (Ctrl+S).
(Or Click 🖫 in Toolbar.)
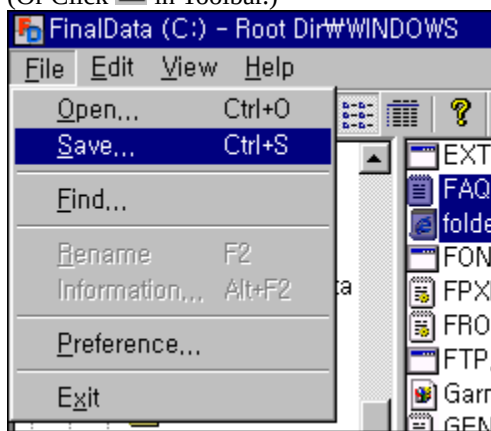


10. Decide the FAT and the folder name to be restored and then click **Save** (Ctrl+S).
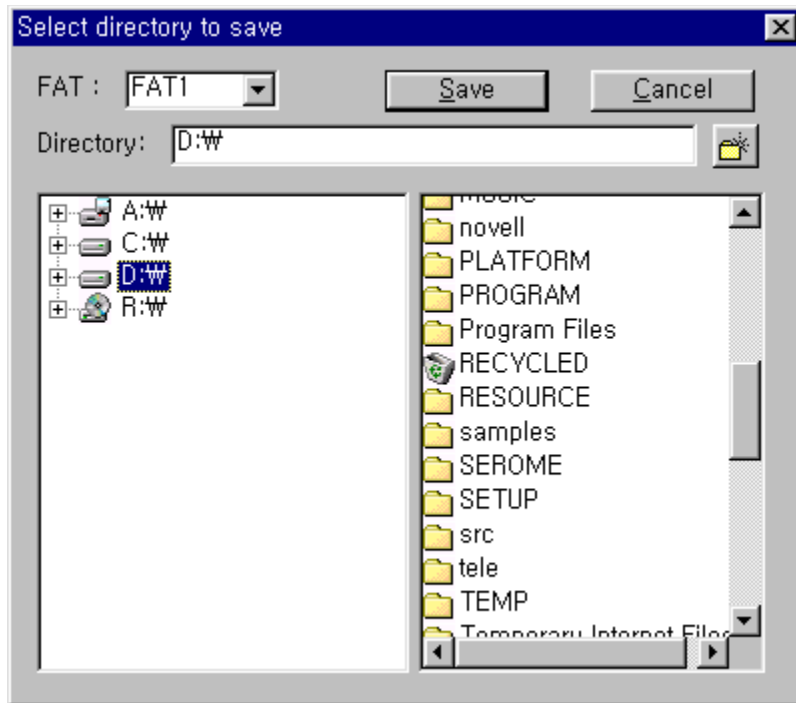
11. To restore files that were simply deleted, use FAT1 or FAT2. In case FAT is damaged, use No FAT.
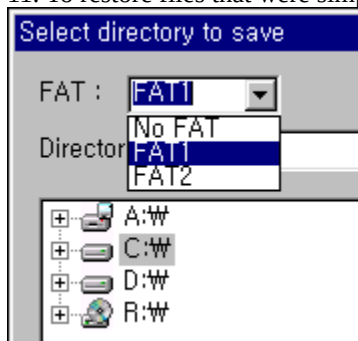


(**Find and Information** functions are available from the FinalData Enterprise Version and higher.)

## Getting Tools

| | | |
|---|---|---|
| 📁 | **Root Dir** | Root Directory |
| 🗑️ | **Deleted Dir** | Deleted Directories that have been deleted from the **Root Dir** |
| 🗑️ | **Deleted Files** | Deleted files that have been deleted from the **Root Dir** |
| 🔍 | **Lost Dir** | **Lost Dir** are the directories found after the disk scan. These directories are not shown in the **Root Dir**. If the hard disk drive is damaged by viruses or by accidental format, FinalData will allocate any directories that had been lost from the **Root Dir** into this **Lost Dir**.<br>When a directory has been deleted, it is possible to recover data of that particular directory from the **Root Dir** only if other data did not overwrite the directory. If the directory information is partially overwritten, you will be able to find the data from **Lost Dir**. |
| 🔍 | **Lost Files** | When all of the directory information is damaged, but the actual data still remains, **Lost Files** will display any data left on the hard disk drive. Since the directory information is not available anywhere on the disk, FinalData smartly sets a temporary filename, file size using its cluster number, data format, and the file size previously set in the **Properties**. If necessary, you can manually change its default file size in the **Properties** section. Moreover, you can change all the file names and file sizes after the disk scan in **Information** from the **File** Menu. Especially, when data has been lost due to I-Explorer Worm Zip virus or something similar to it, as long as the data exist somewhere on the disk, **Lost Files** are the lifesaver function for you.<br><br>File that can be recovered from Damaged File<br>BIFF(Binary Interchange File Format) File Format<br><br>(This is available from the FinalData Enterprise Version and higher.) |
| 🔍 | **Searched Files** | Files and directory list found from the Find function.<br><br>(This is available from the FinalData Enterprise Version and higher.) |

## BIFF(Binary Interchange File Format) File Format

The common Microsoft applications such as Word, Excel, PowerPoint, Publisher, Visual Basic, or Visio use BIFF(Binary Interchange File Format).   In addition, some Windows applications such as 3DS(3D Studio) use BIFF.

FinalData can recover these files from .DOC Folder of  **Lost Files.**
In order to open these files after recovery, simply change its file-extension name(.DOC)
into .XLS, .PPT, .PUB, .VSD, .VSS, or .MAX.

You do not need to change the file-extension name if it is a Microsoft Word Document.   Once the correct file-extension name is entered, you will be able to open and read the file.   The file-size which was used temporarily to recover the file will be corrected automatically after you open and save the file from the applications.

# File Formats which can be recovered from Lost Files

FinalData Enterprise Version and above will recover the following file formats via **Lost Files**, even though most of the directory reference are damaged.

| | |
|---|---|
| .AVI | AVI |
| .BMP | BMP |
| .CDR | Corel Draw |
| .DAT | Moving pictures with sound |
| .DBF | Dbase III database files |
| .DBX | DBX |
| .DOC | <u>BIFF(Binary Interchange File Format) File Format</u> |
| .DWG | Autocad |
| .DXF | DXF |
| .EML | EML |
| .GIF | GIF |
| .HTM | HTML |
| .HWP | Korean Word Processor |
| .JPG | Jpeg |
| .MBX | Outlook Express mail data |
| .IDX | Outlook Express mail index |
| .MBX(Eudora) | Eudora mail |
| .MBX(Netscape) | Netscape mail |
| .MDB | Microsoft Access database format |
| .MID | Midi |
| .MOV | Quicktime Movie |
| .MP3 | MP3 |
| .MPG | Mpeg |
| .PBL | Power Builder database format |
| .PCT | PICT |
| .PCX | PCX |
| .PDF | Acrobat Reader |
| .PSD | Photoshop picture |
| .SF2 | SF2 |
| .RM | Real Audio |
| .RTF | RTF |
| .tar | Unix tar compression format |
| .tar.gz | Unix tar.gz compression format |
| .TGA | TGA |
| .TIF | TIF |
| .WAB | WAB |
| .WAV | Sound format |
| .WMF | WMF |
| .WRK | Cakewalk |
| .ZIP | ZIP compression format |

Since there are numerous applications in the world, FinalData Enterprise Version 1.0 and above will only extract the most popular file types.   Upon the popular demand, FINAL DATA INC. will eventually increase the number of file types to extract.

Please visit http://www.finaldata.com for added file types and the upgrade patch file.

**It describes how to recover the data when the following situations arise.**

1. You simply deleted files and emptied the Recycle bin.

2. A portion of directory info is overwritten by other data after deletion of directory.

3. When you Quick-formatted.

4. The drive is unrecognizable due to virus' infection or Fdisk.

5. The new format is different from the previous format.

6. Windows is damaged and not bootable

## When you simply deleted files an emptied the recycle-bin

Select **Open** (Ctrl+O) from the **File** Menu.
(Or click  in **Toolbar**.)
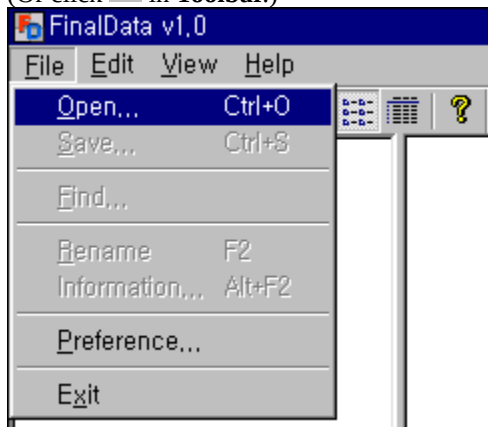


Select the drive to recover.
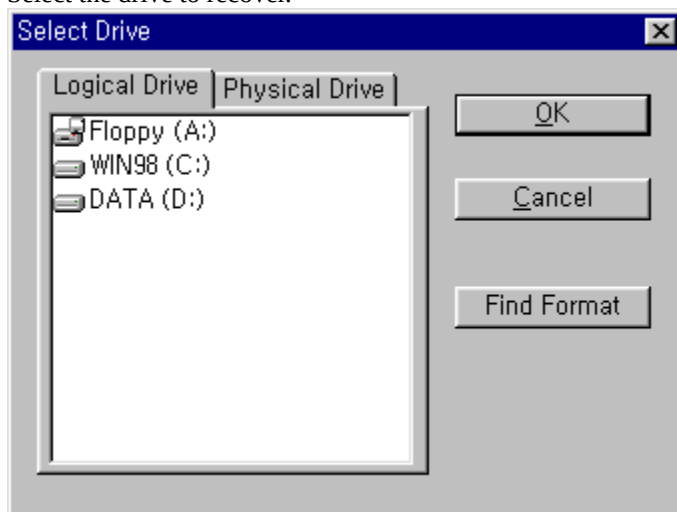


Select the drive, and start directory scan.

**Scanning Root Directory**

Current Directory:

C:₩...₩Guide Sections

**Normal data**

Normal Directory: 197

Normal 4151

**Deleted data**

Deleted Directory: 1

Deleted File: 137

Cancel

If you know the directory location of the file where you originally deleted, you do not need to scan the directory. Just press **Cancel** and go to  **Root Dir** and save the file from the original directory.

If you do not remember where the file was originally located, finish the directory scan, and look for the file from 
**Deleted Dir** or
 **Deleted Files.**

## When a portion of directory info is overwritten by other data after deletion of the directory

Click **Open**  from the **File** menu.
And select the drive to recover.


After the directory scanning is complete, the  **Lost Dir** and
 **Lost Files** will display anything that was left on the hard disk drive.


 **Lost Dir** will display directories and files that are less damaged, and
 **Lost Files** will show files that are severely damaged including directory information. If the data were completely overwritten, it is theoretically impossible to recover those data. If a file is partially overwritten, FinalData Professional Version can recover any leftover portions.

 **Lost Files** is available in FinalData Enterprise Version and higher.
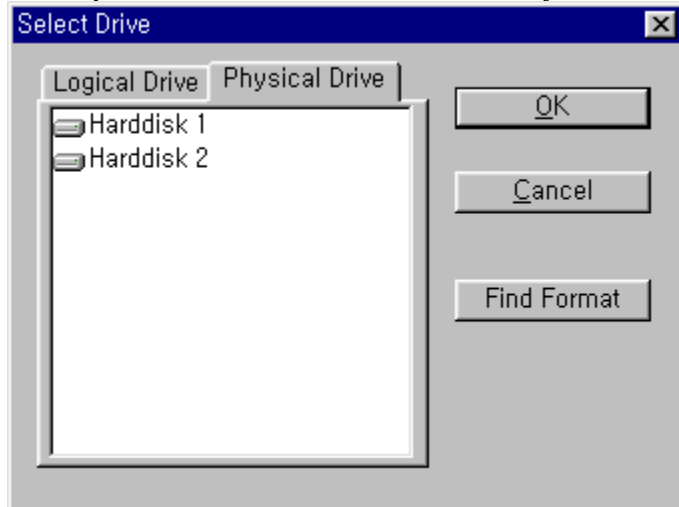
## When you quick-formatted

Click **Open** 📂 from the **File** menu, and select the drive to recover.
📂

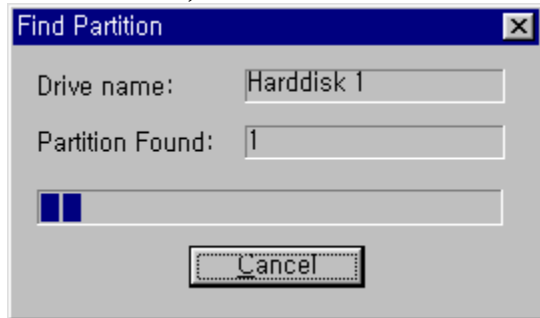The **Scan Disk** starts searching for any lost directories and files.
📂

Select files from 📂 **Lost Dir** and save them.

## When the drive is unrecognizable due to virus' infection or Fdisk

Click **Open** 📂 from the **File** menu and select **Physical Drive**.



Choose the drive, and click **OK**. It will automatically start finding the appropriate partitions.



When a partition is deleted by F disk, the **Find Partition** will recover the original partition, provided you did not create any other partition over it. In addition, when a disk is divided into several partitions, and MBR (Master Boot record) is damaged, the **Find Partition** function will recover them, provided the partition information of the second and beyond are good.

Once the **Find Partition** finds partitions which can be recovered, simply choose one. Then the physical drive will be recognized as normal drive and you will be able to recover 100% of the data.
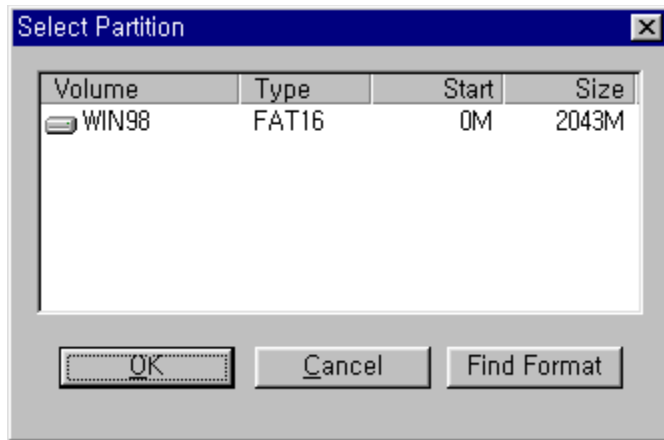
When the partition cannot be found, simply use **Find Format** by using sector range function.
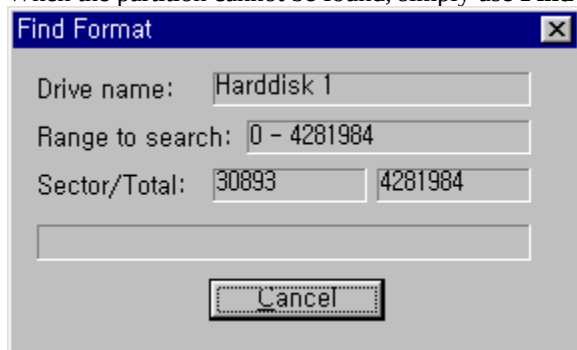


If the format found is correct, just check its format. This will register all the data within the disk to the 📂 **Lost Dir**.
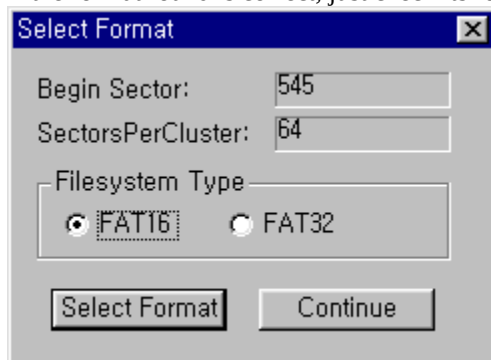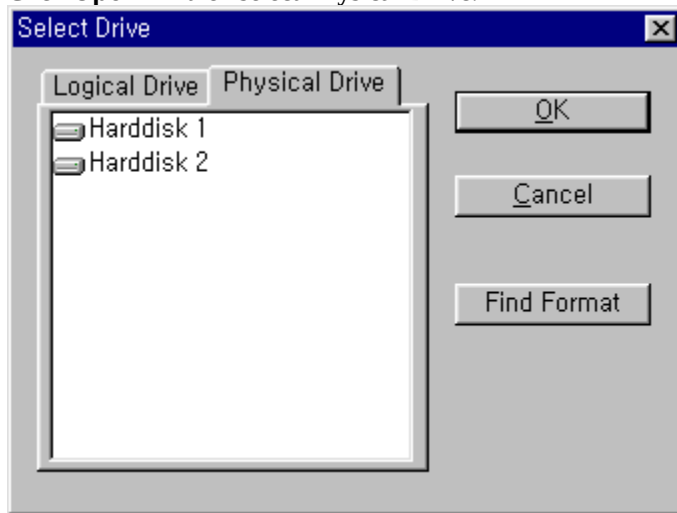


When **Scan Disk** is completed, click 📂 **Lost Dir** in the left window; then the right window will display all the files that were found. Simply save whatever is needed.
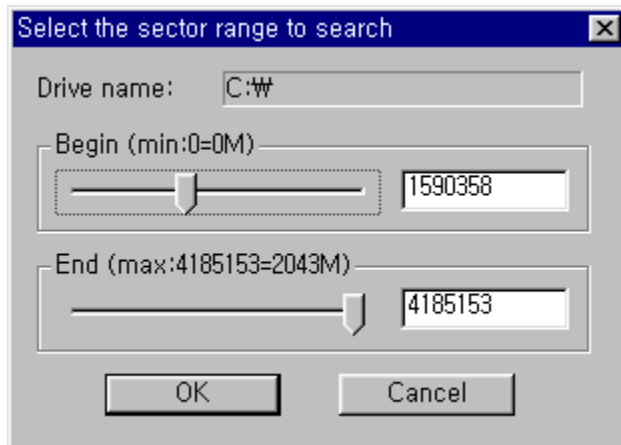📂

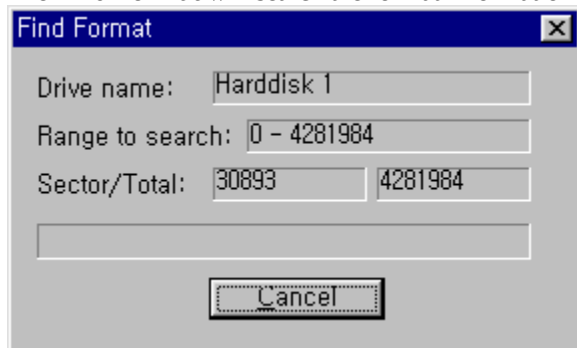## When the new format is different from the previous format

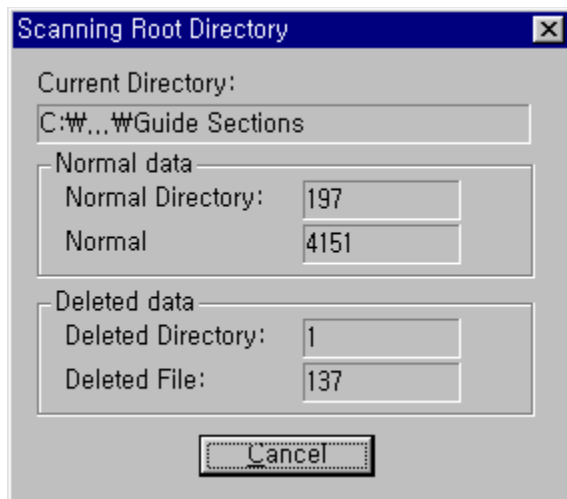Click **Open** 📂 then select **Physical Drive**.



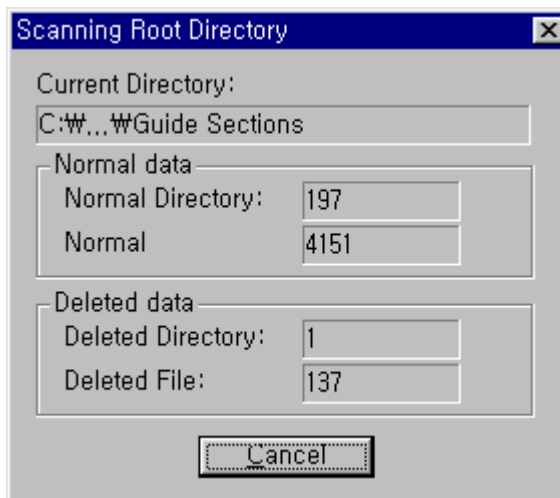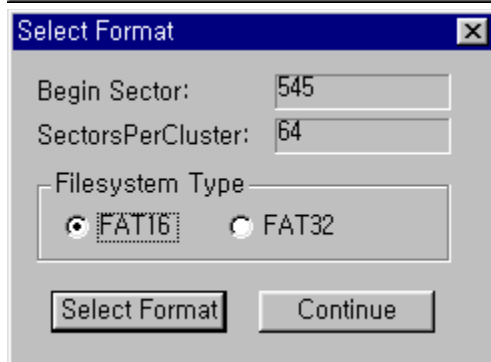Choose the drive and click **Find Format**. Then determine the sector range.



The **Find Format** will search the format information within the selected range.



Just check when the format is correct, and FinalData will register all the data within the format range into

**Scanning Root Directory** ⊠

Current Directory:

C:₩…₩Guide Sections

Normal data
Normal Directory: 197
Normal 4151

Deleted data
Deleted Directory: 1
Deleted File: 137

Cancel

**Lost Dir**.

**Select Format** ⊠

Begin Sector: 545
SectorsPerCluster: 64

Filesystem Type
⦿ FAT16 ○ FAT32

Select Format Continue

**Scanning Root Directory** ⊠

Current Directory:

C:₩…₩Guide Sections

Normal data
Normal Directory: 197
Normal 4151

Deleted data
Deleted Directory: 1
Deleted File: 137

Cancel

After the disk scanning is complete, click **Lost Dir**, and save the data you want onto the other drive.

**Scanning Root Directory**

Current Directory:

C:₩...₩Guide Sections

**Normal data**

Normal Directory: 197

Normal 4151

**Deleted data**

Deleted Directory: 1

Deleted File: 137

Cancel

## When Windows is damaged and not bootable


1. FindData can be run under Windows. Therefore use the other hard disk drive with Windows and FinalData installed as a master booting disk, and attach the original damaged drive as the slave drive (D:,E:, ...). WE STRONGLY RECOMMEND YOU TO HAVE ANOTHER SEPARATE HARDDISK DRIVE READY WITH WINDOWS AND FINALDATA INSTALLED ALL THE TIME, SO THAT YOU CAN USE IT AS A MASTER DRIVE FOR RECOVERING DATA OF THE ORIGINAL TARGETED DRIVE.

2. If you have the network card on the data drive, you can run DosSlave from it and recover from the other master server, which has FinalData Enterprise Network Execution Program. This world-wide patent pending NDR (Network Data Recovery), can be very useful in recovering the data of any slave drives connected to the Master of FinalData Enterprise Network.

**How to Recover Data via Network**(NDR (Network Data Recovery) is only available from the FinalData Enterprise Network Version and higher.)

How to Recover Data via Network

FinalData Enterprise Network Version and FinalData Professional Version have NDR (Network Data Recovery) function using TCP/IP or IPX/SPX protocols. In order to use NDR, the hard disk drive (Slave Drive) that contains the data must be connected to a network using either WinSlave or DosSlave. The Master Server with FinalData Enterprise Network (or Professional Master) can recover the data of Slave Drive.

The simple way to use NDR is as follows:

1. Run WinSlave.exe or DosSlave.exe from the Slave Drive with data.

a) To run WinSlave, Windows and TCP/IP network must be properly installed on the Slave Drive.

Installing TCP/IP network from Windows

b) If Windows is corrupted due to virus and others, run DOS and run DosSlave.exe from the Slave Drive. Please make sure that IPX/SPX network is previously installed before running DosSlave.exe.

Running IPX/SPX driver from DOS mode

2. From the Master Drive or the Host, run FinalData.exe.
To connect to the Slave Drive on network, the Master Drive (Host) must also have TCP/IP or IPX/SPX protocols.

Installing TCP/IP from Windows
Installing IPX/SPX from Windows

3. From FinalData menu, click File-Open Network Drive.

4. Choose WinSlave or DosSlave, and enter the IP address and password of the Slave Drive.

5. When the IP address and password are correct, you are now connected to the Slave Drive. From then on, you can easily recover the data of the Slave Drive from the Master Drive (Host).

(NDR (Network Data Recovery) is only available from the FinalData Enterprise Network Version and higher.)

Installing TCP/IP from Windows

1. Install the proper adapter of your network card. When a modem is used, install proper modem connection adapter. This adapter is the same as the one used to access Internet.

2. From Windows, run Network in the Control Panel.

3. After clicking Add from Network, select and install TCP/IP of Microsoft.

4. Enter IP address and others from Network's Registration Information.

Running IPX/SPX driver from DOS mode

1. Run DOS.

2. Run lsl.com.

3. Run the network adapter driver for DOS that is supplied with the network card.
Generally, when the network adapter driver is started, a frame type is displayed. Use the same frame type (ex: ETHERNET_802.3) on the Master Drive's frame type selection.

If there is any problem with the driver when installing it, verify and confirm whether the network adapter driver is the correct one for your network card.

4. Run ipxodi.com.

5. After installing ipxodi, you are now ready to run DosSlave.exe of FinalData' NDR (Network Data Recover). Simply run DosSlave from it. Run FinalData Enterprise Network (or the Professional) Version from the Master Drive (Host), and recover the data of Slave Drive.

Installing TCP/IP from Windows

1. Install the proper adapter of your network card. When a modem is used, install proper modem connection adapter. This adapter is the same as the one used to access Internet.

2. Run Network from Windows' Control Panel.

3. After clicking Add from Network, select and install TCP/IP of Microsoft.

4. Enter IP address and others from Network's Registration Information.

Installing IPX/SPX from Windows

1. Install the proper adapter of your network card.

2. Run Network from Windows' Control Panel.

3. After clicking Add from Network, select and install IPX/SPX compatible protocol of Microsoft.

4. Choose the same frame type of Slave Drive from the Network's Registration Information/Advanced Option.
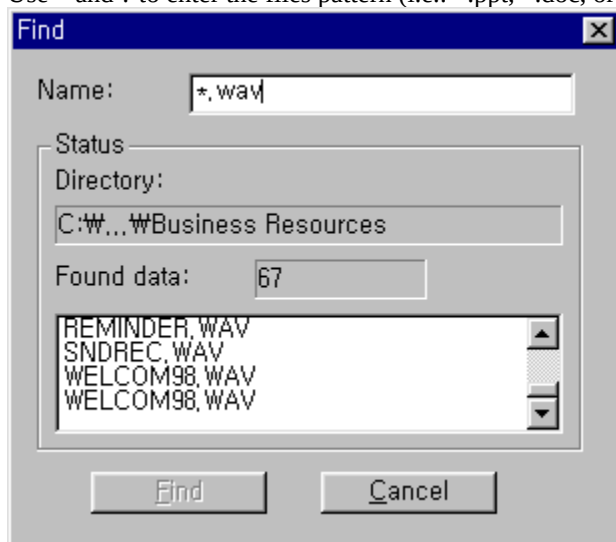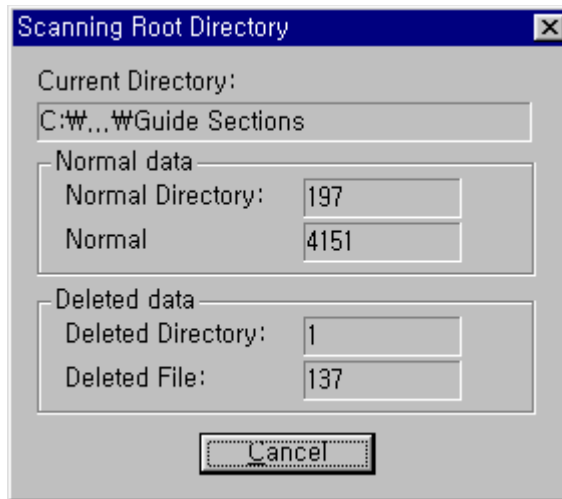
# Find

Select **Find** from the File menu
(Or, Click  in Toolbar.)
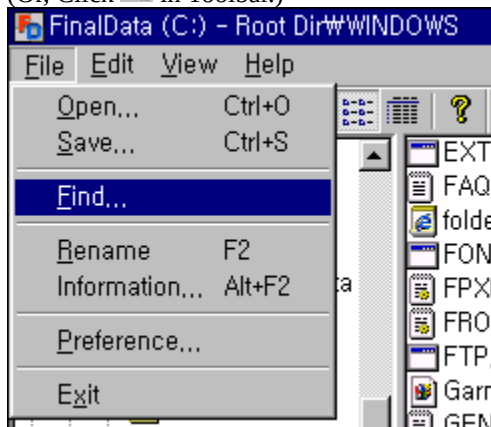


Enter the file name to find and then press **Enter**.
Use * and ? to enter the files pattern (i.e.: *.ppt, *.doc, or filename.*)

**Scanning Root Directory** ✕

Current Directory:

C:₩...₩Guide Sections

Normal data
  Normal Directory:   197
  Normal   4151

Deleted data
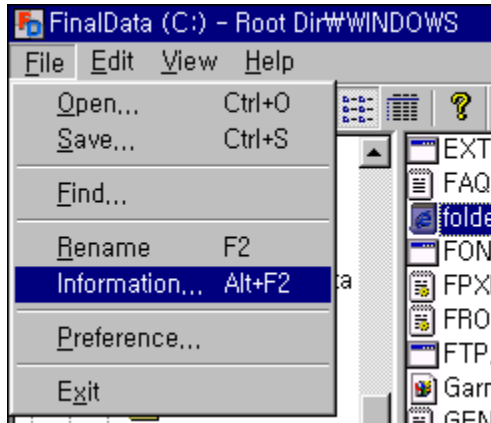  Deleted Directory:   1
  Deleted File:   137

[Cancel]

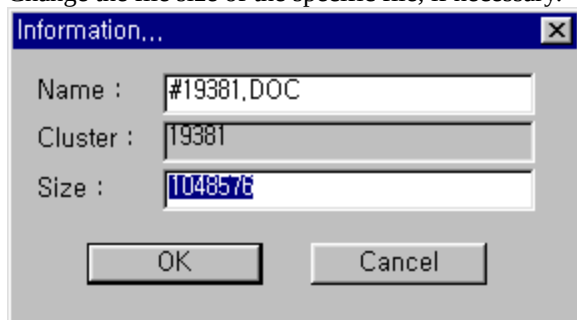When the searching is done, press **Find** in the left window, then simply [**Save**] the file.

(**Find** function is available from the FinalData Enterprise Version and higher.)
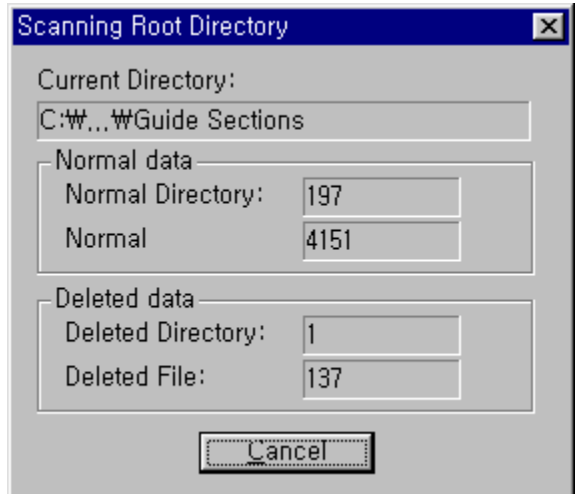
# Information

Select **Information** from the **File** Menu.

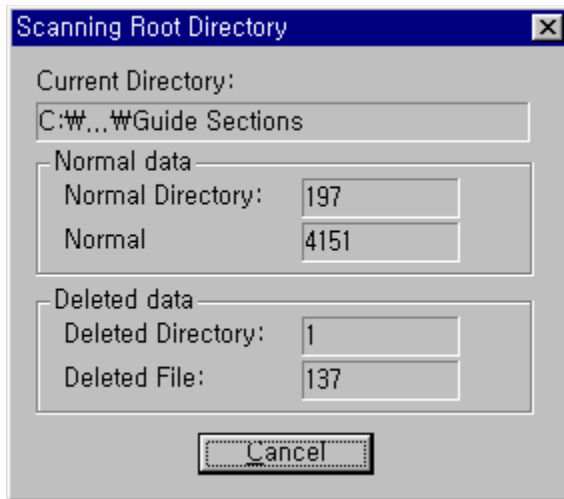

Change the file size of the specific file, if necessary.



This **Information** can be used when the file size needs to be adjusted from

 **Lost Files**.

**Scanning Root Directory**

Current Directory:
C:₩...₩Guide Sections

Normal data
Normal Directory: 197
Normal 4151

Deleted data
Deleted Directory: 1
Deleted File: 137

Cancel

The **Lost Files** category has a powerful function when the directory reference is severely damaged. It uses the temporary file size that has been set in the **Preference** since the files do not contain any size references. If the original file size is greater than the temporary file size set manually, you may change its size to any value greater than that, and Save.

If most of the file size to recover is greater than the default size, simply increase the Default file size from the **Preferences**.
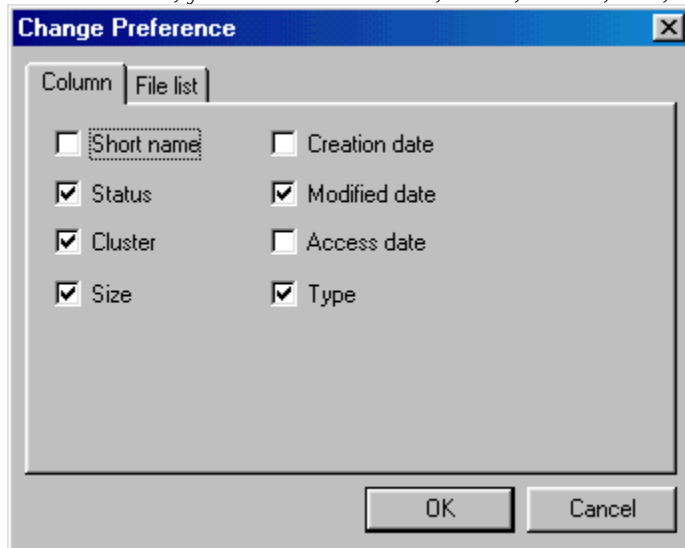
(**Information** function is available from the FinalData Enterprise Version and higher.)

# Preference

**1. Column Tab**

Click **Preferences** in the Menu bar. Check or uncheck the display type.
In **Column** Tab, you can set Short name, Status, Cluster, Size, Creation date, Modified date, Access date and Type.



**2. File list Tab**

In **File list** Tab. it decides if the first character, which has been deleted, is 1 byte or 2 bytes (oriental character). Choose **Automatic** if both characters are common. You can manually change the deleted, first character. When saved, the first character will appear the same as you have changed it.

**Default file size** sets the file sizes of the **Lost Files**. The **Lost Files** are the files that were left somewhere in the disk without any directory information. They contain no filenames and file sizes; therefore, the **Default file size** will temporarily set their sizes. If any files you would like to recover are greater than 1 mega-byte, simply change its value.

(**Default file size** function is available from the FinalData Enterprise Version and higher.)

If you check **Use system icons**, you will see the same type of icons in Windows Explorer.
If unchecked, FinalData uses its own icons to easily discriminate the file conditions.

**Change Preference**

Column | **File list**

Deleted filename

○ 1 Byte(English)　　　#

○ 2 Bytes(Oriental)　　##

● Automatic

Default file size:　　　☑ Use system icons

1048576

OK　　Cancel

## Technical Support

**Technical Assistance of FinalData can be obtained from the Authorized FinalData Distributors in your country.**
To see the list of the Authorized FinalData Distributors near you, or to contact the Developer and Publisher of FinalData, please see the official FinalData website at:

**FINALDATA INC.**
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http://www.finaldata.com
E-Mail:
master@finaldata.com