



**Archive Master
Version 2.0**

Phantom Software
605 Broken Bow Drive
Round Rock, Texas 78681
(512) 255-1167
(512) 255-0557 Fax

THE Windows Users Interface

Features and Capabilities

FileFinder™

Phone Dialer

Windows Shell

File Management

Duplicate FileFinder

Program / File Launcher

DragonDrop™ Capabilities

Atomic Time Reference Access

Virtual Display Control Interface

User Configured Application Categories

ARJ & PKZIP File Compression Interfaces

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Archive Master Installation Instructions

NOTE: Registered versions come with a sophisticated install program.

1. Make a sub-directory of your Windows directory named ARCMST20.
2. Copy the file ARCMASSTR.EXE to the directory you created.
3. Execute the file ARCMASSTR.EXE from a DOS window.

The following files will be extracted

ARCMST20.EXE	1
COMMENT.TXT	1
EXCLUDE.LST	1
REGISTER.TXT	1
EXECUTE0.PIF	2
EXECUTE1.PIF	2
REARJ.PIF	2
ARCMASSTR.DLL	3
TIMEDATE.DLL	3
BASIC.ICO	3
YMMUD.WAV	2
TRSHTRCK.WAV	2

¹ These files should remain in the directory you created.

² These files should be copied or moved to your Windows directory.

³ Must be in your windows directory.

BWCC.DLL	4	- In BBS archive ARCMST2A.ZIP
ARCMST20.WRI	1	- In BBS archive ARCMST2B.ZIP

⁴ If you already have the **BWCC.DLL** file and its length is **130224** and the date / time stamp is **06/08/92** or later then you do not need this one. This file is a system wide file and should be in your Windows or Windows\System directory.

4. Delete the file ARCMASSTR.EXE
5. Launch **Archive Master Version 2.0**

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Setup and Configuration

Archive Master Version 2.0 is a very powerful **Windows 3.1** compatible program providing the user with a multitude of power and flexibility in the every day use of Windows.

There are several modes of operation.

File Ops Mode
Win Apps Mode
ARJ Mode
REARJ Mode
ARJ Sort Mode
PKZIP Mode
PKUNZIP Mode
FileFinder™
DragonDrop™

Esc	ARJ Name: <input type="text" value="ARJ"/>	Enter File Names Without Path Info or Extension	<input checked="" type="checkbox"/> Alt Cursors	Enter
	REARJ Name: <input type="text" value="REARJ"/>		<input checked="" type="checkbox"/> System Shell	
	ARJSort Name: <input type="text" value="ARJSORT"/>		<input type="checkbox"/> Color LED Display	
	PKZIP Name: <input type="text" value="PKZIP"/>		<input type="checkbox"/> Mono LED Display	
	PKUNZIP Name: <input type="text" value="PKUNZIP"/>		<input type="checkbox"/> No LED Display	
	UpDate Rate: <input type="text" value="10"/>		Baud Rate : <input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 2400 <input type="checkbox"/> 4800 <input type="checkbox"/> 9600	
	Default Editor: <input type="text" value="NOTEPAD"/>	COM Port : <input checked="" type="checkbox"/> Com 1 <input type="checkbox"/> Com 2 <input type="checkbox"/> Com 3 <input type="checkbox"/> Com 4		
		Parity : <input type="checkbox"/> Odd <input checked="" type="checkbox"/> Even <input type="checkbox"/> None		
		Stop Bits : <input checked="" type="checkbox"/> 1 Bit <input type="checkbox"/> 2 Bits		
		Data Bits : <input type="checkbox"/> 7 Bits <input checked="" type="checkbox"/> 8 Bits		

Pressing **Ctrl - F12** or **right mouse clicking** the **application icon** area above the **file count indicator** allows the user to enter the file names for:

ARJ, REARJ, ARJSORT, PKZIP & PKUNZIP

Shown are the default file names. Some users may prefer **ZIP** or **UNZIP** instead of **PKZIP** and **PKUNZIP** respectively. Additional controls are:

- UpDate Rate** How often the **memory status** displays are updated.
- Set Editor** Specifies a **Windows** text editor used to display the results of **ARJ & PKZIP** operations.
NOTE: Available on systems running in **multitasking** mode.
- Alt Cursors** Use of the **alternate cursors** provided with **Archive Master**
- System Shell** Selects or deselects **Archive Master** as the **system shell**.
When selecting **Archive Master** as the system shell, the previous shell, ie. **Program Manager, etc.** is saved in the **ARCMASSTR.INI** file. Deselecting **Archive Master** system shell will restore the **SYSTEM.INI** file to it's original settings.
- Color LED** Displays **Color Graphic Status** indicators.
- Mono LED** Displays **MonoChrome Graphic Status** indicators.
- No LED** Displays **Status** indicators as text.
- CommPort** Sets comm port setting for the phone dialer.
- WARNING :** This software tests itself during startup for proper **size & CRC** readings. If either **ARCMST20.EXE** or **ARCMASSTR.DLL** fail the **file size** or **CRC** test the program will terminate. **Do Not** modify any resources, ie. **bitmaps, string tables, dialog boxes** etc in either **ARCMST20.EXE** or **ARCMASSTR.DLL**.

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Keyboard / Mouse Operations

While positioning the cursor around the **Archive Master** screen area the cursor will change shapes at various times. When the cursor changes to the **Control Menu** cursor the user may activate the floating menu by clicking the right mouse button. The selections in the menu are determined by the mode of operation and the position of the cursor.

The four list boxes at the bottom of the screen will have a **Control Menu** while in the **WinApps Mode**.

Control Menus may be activated by pressing **Ctrl - [list box selector]** ie. **Ctrl - S / s** will activate the **Control Menu** for the Source Directory list box.

All modes of operation:

Ctrl - S / s	Control Menu for <u>S</u> ource Directory list box
Ctrl - O / o	Control Menu for <u>S</u> ource File list box ¹
Ctrl - D / d	Control Menu for <u>D</u> estination Directory list box
Ctrl - E / e	Control Menu for <u>D</u> estination File list box ¹
Ctrl - Q / q	Control Menu for Status Display Indicators

¹ If file(s) selected.

WinApps mode of operation:

Ctrl - M / m	Control Menu for Applications <u>M</u> anager list box
Ctrl - C / c	Control Menu for ^ <u>C</u> onfigured Categories list box
Ctrl - X / x	Control Menu for Assoc'd <u>E</u> xtn's list box
Ctrl - S / s	Control Menu for Configured Applications list box

The following applies when an application is selected in the **Applications Manager** list box and the **Scroll Lock** is **off** (**hidden** & **minimized** application positions are not affected).

Ctrl - Home	Positions selected application to NorthWest virtual screen position
Ctrl - Up Arrow	Positions selected application to North virtual screen position
Ctrl - Pg Up	Positions selected application to NorthEast virtual screen position
Ctrl - Left Arrow	Positions selected application to West virtual screen position
Ctrl - 5 Key	Positions selected application to Viewable virtual screen position
Ctrl - Right Arrow	Positions selected application to East virtual screen position
Ctrl - End	Positions selected application to SouthWest virtual screen position
Ctrl - Down Arrow	Positions selected application to South virtual screen position
Ctrl - Pg Dn	Positions selected application to SouthEast virtual screen position

Alt - Home	Positions selected application to NorthWest corner of the screen
Alt - Up Arrow	Moves selected application in Northerly direction
Alt - Pg Up	Positions selected application to NorthEast corner of the screen
Alt - Left Arrow	Moves selected application in Westerly direction
Alt - 5 Key	Centers selected application in Viewable quadrant
Alt - Right Arrow	Moves selected application in Easterly direction
Alt - End	Positions selected application to SouthWest corner of the screen
Alt - Down Arrow	Moves selected application in Southerly direction
Alt - Pg Dn	Positions selected application to SouthEast corner of the screen

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Keyboard / Mouse Operations (cont)

Keyboard Mouse

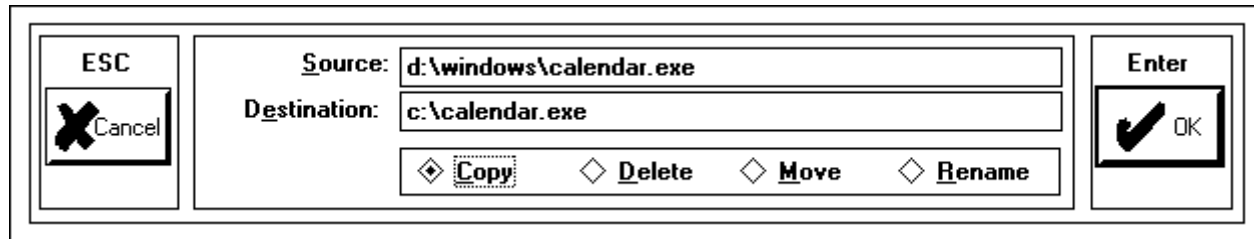
The **Keyboard Mouse** is *activated / deactivated* with the **Scroll Lock** key. When the **Keyboard Mouse** is active the letter **K** is displayed inside a **box** at the extreme right side of the screen, centered top to bottom. The following keys mimic mouse movements.

Alt / Ctrl	Alt = coarse movement Ctrl = fine movement
Left Arrow	Move cursor position left (west)
Up Arrow	Move cursor position up (north)
Right Arrow	Move cursor position right (east)
Down Arrow	Move cursor position down (south)
Home	Move cursor position up & left (northwest)
Page Up	Move cursor position up & right (northeast)
End	Move cursor position down & left (southwest)
Page Down	Move cursor position down & right (southeast)
Ctrl - Insert	Left mouse button click
Ctrl - Delete	Right mouse button click

In all modes of operation the following actions apply:

Alt - F1	General Program Help.
F1	Help for the file or directory list box having the current focus.
F8	Hide or Show the FileFinder™ window if in the FileFinder™ mode.
F9	FileFinder™ mode. If Finding Files , F9 will close the FileFinder™ window. If Viewing a Text File or Archive while in the FileFinder™ mode F9 will return to the FileFinder™ mode.
Ctrl - F12	Archive Master Setup Menu.
Ctrl - Alt -Home	Centers Archive Master in video display.

Right Mouse Button or Ctrl - Z	List box (having a scroll bar) Zoom or UnZoom .
Shift - Right Mouse Button	Help for the list box the cursor is positioned over.



When either the **Source** or **Destination File** list box has the focus and a file or files are selected:

Shift - Insert	File Action Dialog or Multiple File Copy ¹
Shift - Delete	File Delete Dialog
Shift - F5	Toggle the ReadOnly Flag for the current selection ²
Shift - F6	Toggle the Hidden Flag for the current selection ²
Shift - F7	Toggle the System Flag for the current selection ²
Shift - F8	Toggle the Archive Flag for the current selection ²

Note : To **Rename** a file, **enter only** the new file name in the **Destination** edit pane.

¹ Multiple File Copy if more than one file is selected.

² Applies to **FileFinder Mode** also.

When the **Source** or **Destination Directory** list box has the focus:

Shift - Insert	Create Directory Dialog
Shift - Delete	Remove Directory Dialog

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Keyboard / Mouse Operations (cont)

Selecting one or more files in the **Source** or **Destination** list box and holding the **Left Mouse Button** down will change the *cursor* to the **dragon cursor** and the **File Count Indicator** will change to the **ACME Trash** truck. The user may *delete* the selected files by **right mouse button clicking** the **ACME Trash** truck or may copy the files to another directory by selecting the **Destination Directory** and **right mouse clicking** the **Destination Directory** list box. Files can only be copied from the **Source File** list box to the **Destination Directory** list box. Files may be deleted from either the **Source** or **Destination** list box.

The **Command** edit pane may be used to launch applications and programs. An example might be:
C:\DOS\FORMAT.COM A: /S. Note: The path and extension must be supplied.

The four display areas at the extreme bottom of the application window indicate mouse button actions.
The left two areas display **left mouse button** functions.
The right two areas display **right mouse button** functions.

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DragonDrop™



After reviewing and *using* the drag and drop feature of the **Windows 3.1 File Manager** it has been determined that supporting **Windows 3.1** drag and drop does not enhance the operation / functionality of **Archive Master**.

DragonDrop™ is available in all modes of operation. This implementation of **DragonDrop™** is available only *within Archive Master*, meaning you *can not* either **drag** something to **Archive Master** from another application or **drag** something from **Archive Master** to another application. The broad scope of capabilities within **Archive Master** virtually eliminates any reason to drag and drop to another application.

There are standard **DragonDrop™** functions and there are **DragonDrop™** functions that are peculiar to a particular mode. General guide lines are:

1. **Single** or **multiple** files may be selected in either the **Source** or **Destination File** list boxes. Select the files to be manipulated and continue to hold the **left mouse button** pressed. The cursor will change to the **dragon cursor** after approximately 1 second.
 2. Files may be deleted * from either the **Source** or **Destination File** list boxes. The **file count indicator** will change to **ACME Trash** truck and then **right mouse click** the **ACME Trash** truck.
 3. Files may be copied **only** from the **Source File** list box to the **Destination Directory** list box. The user **highlights** the **destination directory** in the **Destination Directory** list box with the **left mouse button**. Once the **destination directory** is **highlighted** the user **right mouse clicks** the **Destination Directory** list box. If the desired **destination directory** is to be the **root directory** of a device the user **must select the drive indicator or the [...] entry** in the **Destination Directory** list box.
 4. If you have selected source file(s) to **copy**, or to **add / move** to an archive and you have selected the wrong **destination directory or archive** you can **abort** the operation by **releasing** the **right mouse button outside of the Destination File** list box.
- * In the **File Ops Mode** you may **drag** files to the **Selected Files** list box from various **Source Directories**. Once all the files to be either **copied or deleted** have been placed in the **Selected Files** list box the user selects either **Multiple File Copy** or **Multiple File Delete** to perform the desired action.

WinApps DragonDrop™

In addition to the above functions the user may launch a **Configured Application** and pass the **selected file** to the application.

1. Select the file to be passed in the **Source File** list box, hold the **left mouse button** down until the cursor changes to the **dragon cursor**.
2. **Double click** the **Configured Application** in the **Configured Applications** list box.

Archive Master will test the **Configured Application** and determine if it is an **executable file**. If it is, the **selected file** is passed as a parameter to the application. If it is not, **Archive Master** will process the application without passing the **selected file** as a parameter.

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DragonDrop™ (cont)

WinApps DragonDrop™ (cont)

You may select files in the **Source File** or **FileFinder™** list box and **dragon drop** them into a **Configured Category**.

1. Select the files to be added to a **Configured Category**, hold the **left mouse button** down until the cursor changes to the **dragon cursor**.
2. Select the **Configured Category** to add the selected files to with the **left mouse button**.
3. **Right mouse click** the **Configured Categories** list box to add the selected files.

FileFinder™ & DragonDrop™ (Win Apps Mode only)

1. The file selected in the **FileFinder™** list box may be passed to a **Configured Application**.

ARJ Mode DragonDrop™

Files may be **added, moved & updated** to an existing archive by the following procedure. The appropriate **ARJ Mode** must be selected first.

1. The file(s) to be added are selected in the **Source File** list box.
2. Hold down the **left mouse button** until the cursor changes to the **dragon cursor**.
3. Select the **destination archive** in the **Destination File** list box with the **left mouse button** and then **click the Destination File** list box with the **right mouse button** to start the

procedure.

NOTICE : To create a new archive named archive.arj DO NOT select a file in the Destination File list box. To create a new archive with a name different than archive.arj, edit the text in the Command edit text pane to indicate the desired archive name.

PKZip Mode DragonDrop™

Files may be **added** to an existing archive by the following procedure. The appropriate **PkZIP Mode** must be selected first.

1. The file(s) to be added are selected in the **Source File** list box.
2. Hold down the **left mouse button** until the cursor changes to the **dragon cursor**.
3. Select the **destination archive** in the **Destination File** list box with the **left mouse button** and then **click the Destination File** list box with the **right mouse button** to start the

procedure.

NOTICE : To create a new archive named archive.zip DO NOT select a file in the Destination File list box. To create a new archive with a name different than archive.zip, edit the text in the Command edit text pane to indicate the desired archive name.

In all modes of operation, the **DragonDrop™** mode may be cancelled by returning to list box where the file(s) were selected and clicking the **left mouse button** once inside the list box area.

Additionally, once the **DragonDrop™** mode has been activated the **dragon cursor** will change to the **not here** cursor when placed over an area of the **Archive Master** application window that can not accept the selected file(s).

In closing the section on **DragonDrop™**, until you get the feel of what can be dropped where,

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of the

just pay attention to the *cursor* and the *mouse button function indicators* at the bottom window.

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File Ops Mode

The **File Ops Mode** list box allows selection of either the **Single or Multiple File Operations** mode.

The **Multiple File Copy & Delete** modes allow the user to select various files, from various source directories and then to either **copy** them to another location or to **delete** them.

The files are **selected** in the **Source Files** list box by pressing **Enter**, **Double Clicking** the **Left Mouse Button** on the file name to add or by selecting the '**Get All**' button. As described earlier, you may select single or multiple files in the **Source Files** list box, holding the **left mouse button** depressed until the cursor changes to the **dragon cursor** and then dropping them in the **Selected Files** list box.

Selected files are placed in the **Selected Files** list box at the bottom center of the application window. The user may remove any files from this list box that may have been inadvertently selected.

Once all the files to be **Copied** or **Deleted** have been selected and deposited in the **Selected Files** list box, select either the '**Multiple File Copy**' or '**Multiple File Delete**' entry by **double clicking** or pressing **Enter**. In either case, a dialog box appears asking for confirmation of the requested operation and in the case of '**Multiple File Delete**' the user is provided the option to **Individually Confirm** each **deletion**.

When **deleting multiple files** the user will be prompted for confirmation if a file has any combination of **Hidden, ReadOnly or System** flags set whether or not **Individually Confirm** was selected.

In **all modes** of operation you may select one or more files in the **Source File** list box and invoke the copying of the selected files to the **current destination directory** by pressing **Shift - Insert**.

In **all modes** of operation you may select one or more files in the **Source File** or **Destination File** list box and invoke the deletion of the selected files by pressing **Shift - Delete**.

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Win Apps Mode

The **Applications Manager** list box provides the same basic capability as the **Windows** task manager. A list of the currently running applications is provided in the **Applications Manager** list box in the lower left corner of the application window. The user may either bring an application to the front by **double clicking** on the application or by selecting the application and pressing **Enter**. The **icon** for the selected application will be displayed above the **file count indicator**.

Select an application and press **Shift - Delete** to **close** the selected application.

NOTE: Some applications, ie. **winfile.exe**, **progman.exe** do not respond to the **close** command.

When running **Archive Master** as the **system shell**, you may **Hide** an application. This is accomplished by selecting the application name in the **Applications Manager** list box and clicking the **Hide Window** button. The application name in the **Applications Manager** list box will be preceded by the '~' character. A **hidden application** may be made visible again by either **double clicking** the application name or by selecting the application name and clicking the **Show Window** button.

Right mouse button click the cursor the **selected applications icon** will present the user with a floating menu of options. These options are:

Initial Screen	Shows the initial sign on screen for Archive Master
Call Phantom Software	Dials Phantom Software via the users modem
Register Archive Master	Displays register dialog box for un-registered copies
Record Default Settings	Displays the record defaults dialog box

A list of all associated file extensions is provided in the **Assoc'd Extn's** list box. The listed extensions are read from the users **WIN.INI** file. Selected entries in this list box determines what file(s) will be displayed in the **Source File** list box.

An application or program may be run or loaded by either **Double Clicking** on the **file name** or selecting the file name in the **Source File** list box and pressing **Enter**. **Archive Master** will load the appropriate program and pass the selected file to it ... if it is not an executable file.

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Win Apps Mode (cont)

The list box labeled

^Configured Apps
?? Categories

lists user defined categories of applications. You may have up to **256 Categories** and each category may have up to **256 Applications** assigned, resulting in over **65,000** files / programs configured in a single medium for rapid access (*un-registered copies are limited to 10 Categories & 10 Applications*).

Typical category names are: *editors, dial_phone, imagery, text_files, doc_files, write_files, ~group_1*

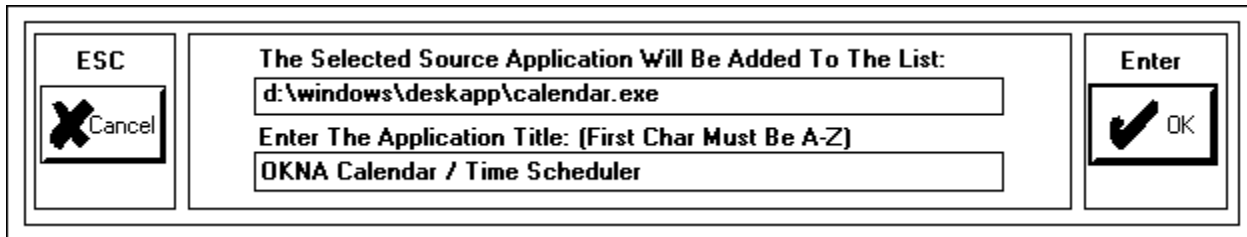
NOTE: All category names must begin with a character from lower case 'a' to upper case 'Z' with one exception. You may begin a category name with the tilde (~) character. The tilde character signifies a group category. Applications assigned to a category beginning with the ~ character may still be launched as any other configured application. To invoke the launching of all configured applications in the group you either select the group category with the keyboard and press the *Enter* key or select the group category with the mouse and then *Shift - Left Mouse Click* the group category name.

Selected file(s) in the **Source File** or *FileFinder™* list boxes are **added** to a **category** by:

1. To add a **single** file to a **category** select the '**Add Application**' button or, select the **Configured Applications** list box and press **Alt - Insert** or, use the *floating menu* by **right clicking** the **Configured Applications** list box title or **Ctrl - I**.
2. To add **multiple files** to a **category**, **shift left click** the category name in the **^Configured Apps** list box.

Configured Applications are **deleted** from a **category** by:

1. Selecting the **Configured Application** to **delete** and **clicking** the '**Del Application**' button or, pressing **Alt - Delete** or, use the *floating menu* by **right clicking** the **Configured Applications** list box title or **Ctrl - I**.



Configured Apps Categories and **Configured Applications** list box entries are sorted automatically.

Once configured, the user selects the desired **Configured Application** to launch or run and either **double click** the application description or presses **Enter**. Applications must be files that end with the extension of **EXE, COM, BAT or PIF** or have an *extension* that has an *association* in the **WIN.INI** file.

Selecting a file in the **Source File** list box and holding the **Left Mouse Button** depressed will change the cursor to the *dragon cursor*. Double clicking on an application in the **Configured Applications** list box will launch the application and pass the selected file to it. This feature is also available from the *FileFinder™* while in the **Win Apps Mode**.

Using the *FileFinder™* is very useful when **adding applications** to a **category**.

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Win Apps Mode (cont)

A classic example of using **Configured Applications** might be :

Suppose we have a file named *jupimoon.bmp* in our well structured directory system of *d:\windows\bmpfiles\256color*. Since this file is in the *d:\windows\bmpfiles\256color* directory we can assume it a **256 color bitmap** of something, but the file name, being limited to **8** characters precludes, in most cases, a descriptive name. With **Archive Master** you may define a **category** named, *bmp256colors*, and an **application** title of, *Moons Of Jupiter (256x1024x768)*. Obviously, a more descriptive and less confusing means of locating the desired application or file.

Phone Dialer

You may enable the built in phone dialing capability by adding a **category** named : *dial_phone??* (where *??* may be any alpha / numeric characters).

When adding phone numbers to be dialed, the phone number is entered in the Command edit list pane.

The entered phone number may include characters **a - Z**, ie. 1 (800) **HOLIDAY** (excluding q, Q, z & Z).

A **comma** (,) may be used to indicate a **pause**, multiple commas may be used ie. 9,,1 (800) **HOLIDAY**. Each **comma** typically causes the modem to **pause** for **2 seconds** so the above example indicates a 4 second pause between dialing the **9** and the **1**.

A **semi-colon** may be used to indicate **wait** for dial tone ie. 9;1 (800) **HOLIDAY**.

This example indicates to dial the **9** then **wait** for another dial tone, then dial 1 (800) **HOLIDAY**.

NOTE: Do not begin a phone number with the semi-colon character.

WAV File Assignment - Windows 3.1 Only

If you are running **Windows 3.1** you may assign a **WAV** file to an application. In order to employ this feature you must have the *speaker.driv* installed. This driver is available on most BBS's that cater to **Windows** applications. It is typically named *winspeak.zip* and is a **Microsoft** product. Follow the supplied directions that come with the driver to install and configure your system.

No other sound media is supported at this time.

When initially configuring an application you will be presented the option of assigning a **WAV** file to be played through the computer speaker when the application is launched.

To assign or change the assigned **WAV** file for an existing configured application invoke the **Control Menu** and select **Assign / Change WAV File** selection.

Select the **WAV** file in the **Select Sound File** dialog box to **assign** it to the application.

Select the **Cancel** button in the **Select Sound File** dialog box to **clear** the assigned **WAV** file.

To allow for the **random** selection of any assigned **WAV** file, select the supplied **dummy WAV** file named *yymmud.wav*.

When launching a group of applications, if the **last** file launched has a **WAV** file assigned then it will be played. Any other applications, in the group, having a **WAV** file assigned **will not** be played.

Archive Master maintains up to **128 WAV** files in the **ARCMASSTR.INI** file. If you manually edit the entries under **[WAVEFILES]** you **may not** get the song, tune or noise you originally configured for the application. The entries in the **[WAVEFILES]** section are **added / updated** each time you assign or change an applications assigned **WAV** file. The assigned **WAV** files may be in any directory you desire even though we suggest a subdirectory of your **ARCMST20** directory named **WAVEFILES** ie.

D:\WIN31\ARCMST20\WAVEFILES

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ARJ Mode

ARJ is a powerful archiving utility and in as much may be intimidating to some. The original reason for writing *Archive Master* was to provide a convenient interface that helped make **ARJ** less intimidating.

There are **19 modes** and over **60 switches** for the **ARJ** program.

Initially, upon entering the **ARJ** mode, the button labeled '**Set Defaults**' allows you to store several items in the **ARCMASSTR.INI** file for future retrieval. These items are:

Path **ARJ, REARJ & ARJSort** (must be in the same directory or in the path)
Password
Temporary Work Directory
Huffman Buffer Size
Minimum Disk Space
Exclude Files List File Name
Comment File

Review your **ARJ** documentation for clarifications on the use of the above.

Archive Master allows you to set the various switches listed in the **Switches** list box in the lower right corner of the application window. This is a **multiple select** list box. Once you have selected the appropriate switches for the currently selected mode, *ie. Add, Add Changed, Delete, etc.*, select the '**Save Selections**' button. The switch settings are then saved to the file **ARCMASSTR.INI** file. The next time you select that particular mode of operation the switch setting are read back in and selected.

The basics of the **ARJ** mode are:

Creating, Adding To and Updating Archives

You may select various files from various directories and place them in the **Selected Files** list box at the center bottom of the application window. Select the directory where you want the archive to be placed and select the **Ok** button or press **Alt - K**. You may also elect to have the results displayed with the **Report** option with the Editor of your choosing.

Listing, Deleting, Commenting, Freshening and Extracting Files

Select the desired archive in the **Source Files** list box. *Archive Master* will provide a list of files in the **Files In Archive** list box at the bottom center of the application window. A list box displaying all the file extensions is also provided.

Selecting one of the entries in the **Files In Archive** list box at the bottom center of the application window will provide all details pertaining to the file., *ie.*

Original Size, Compressed Size, CRC, Compression Method, Comments, etc.

Select the files you want to perform an action on, *ie. Extract, Delete, Comment, etc.* and select the **Ok** button or press **Alt - K**. The results may be displayed with the **Report** option.

NOTE: If you select the **Report** option for an operation that requires user input, *ie.* Commenting, or if you have selected the **-q, (query on each file)**, you may not be able to perform the desired action.

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REARJ Mode

REARJ allows you to convert an archive of one format to another format, if you have the appropriate archiver software. The **REARJ** manual explains the operation in detail.

Select the archive to be **converted** in the **Source File** list box. If it is either an **ARJ** or **PKZIP** archive, **Archive Master** will display the contents of the archive.

Selecting one of the entries in the **Files In Archive** list box at the bottom center of the application window will provide all details pertaining to the file., ie.

Original Size, Compressed Size, CRC, Compression Method, Comments, etc.

Select the conversion format in the **REARJ Mode** list box in the lower left corner of the application window.

There are several switches that may be set in the **REARJ Switches** list box in the lower right corner of the application window. These setting may be saved for future retrieval if desired.

Once all selections have been made, select the **Ok** button or press **Alt - K** to perform the conversion.

ARJSort Mode

ARJSort allows the re-ordering of files in an ARJ archive.

The **ARJ** archive to be sorted is selected in the **Source File** list box.

Archive Master will display the contents of the archive in the **Files In Archive** list box at the center bottom of the application window.

Selecting one of the entries in the **Files In Archive** list box at the bottom center of the application window will provide all details pertaining to the file., ie.

Original Size, Compressed Size, CRC, Compression Method, Comments, etc.

The available sort options are listed in the **ARJSort Switches** list box in the lower right corner of the application window.

You may specify that the sort order be reversed by selecting the '**Rev Sort**' Check Box.

Once all parameters set, select the **Ok** button or press **Alt - K** to perform the operation.

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PKZIP & PKUNZIP Modes

PKZIP Mode

The interface to **PkZIP & ARJ** functions / actions are for all intents and purposes identical from within **Archive Master**. The previous description for the **ARJ Mode** also apply here.

You may select various files from various directories and place them in an archive.

You may display the contents of an archive in the **Files In Archive** list box at the bottom center of the application window.

You may set default parameters for both **PKZIP** and **PKUNZIP** modes by selecting the '**Set Defaults**' button.

PKUNZIP Mode

Select the archive in the **Source File** list box.

The archive contents are shown in the **Files In Archive** list box at the bottom center of the application window.

Select the files to be acted upon in the **Files In Archive** list box and select the appropriate mode of operation from the **PKUNZIP Mode** list box in the lower left corner of the application window.

Various switches may be set in the **PKUNZIP Switches** list box in the lower right corner of the application window. These may be saved as defaults for future retrieval.

Once the desired mode is selected, archive selected and switches set, select the **Ok** button or press **Alt - K** to perform the operation.

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FileFinder™ Mode

The screenshot displays the FileFinder application window titled "Phantom Software". The interface is divided into several sections:

- Search Controls:** Includes "Search Drives" set to "4 ALL FIXED", "Wild Card" (empty), "Case" checked, "Text Search" checked, and "path" selected. The "Multiple WildCard" field contains "*.txt *.wri *.doc".
- Search Summary:** "Dir Searched : 190", "Files Found : 9", and "Total File Size : 345,342".
- File List Table:**

File Name	Size	Date	Time	rhsa	Path Information
arcnst20.wri	44800	92/05/18	17:49:02	0001	d:\windows\arcnst20\
arcnst20.wri	44800	92/05/18	19:14:16	0001	c:\arcnst20\
cvt-22.doc	26345	92/04/22	22:21:58	0000	c:\compress\cvt\
lathe.wri	26240	92/01/12	20:29:32	0000	d:\windows\lathe\
lha210.doc	29971	92/04/22	22:28:34	0000	c:\compress\lha\
ole.doc	78885	92/04/01	16:28:04	0000	d:\windows\winzip\
pkzipadd.doc	21473	92/04/22	22:25:34	0000	c:\compress\pkzip\
setup.txt	41724	92/03/10	03:10:00	0000	d:\windows\
winini.wri	31104	92/03/10	03:10:00	0000	d:\windows\
- Date Info:** "After" date is 1992-1-1, "Before" date is 1992-5-19. Includes "Greater Than" (20000) and "Less Than" (80000) filters, and checkboxes for "R", "H", "S", "A".
- Applications Manager:** Lists "Screen Peace", "~Srvr", "~Back-Menu", "Dr. Watson", "Resource Workshop", and "Turbo Pascal". Includes "F8 Hide FileFinder" and "F9 Quit FileFinder" buttons.
- Configured Apps:** "18 Categories" including system, scientific, telecomm, video, write_files, cpm, crd, dat, doc, exe. Includes "add+cat", "del-cat", and "All" buttons.
- Configured Applications:** Lists "Archive Master Version 2 Manual", "Aggie Medical Terms", "Are You A Red Neck ?", "Archive Master Distribution Letter", "Battle Grid Manual", and "Dumb Blonde Jokes". Includes "Add Application" and "Del Application" buttons.
- Navigation Buttons:** A row of buttons for "1 Find Files", "2 Use Selt'd", "3 Execute File", "4 Select All", "5 Copy Selt'd", "6 Add To List", "7 View Selt'd", "8 Options #1", "9 DeSelect All", and "0 Erase Selt'd".

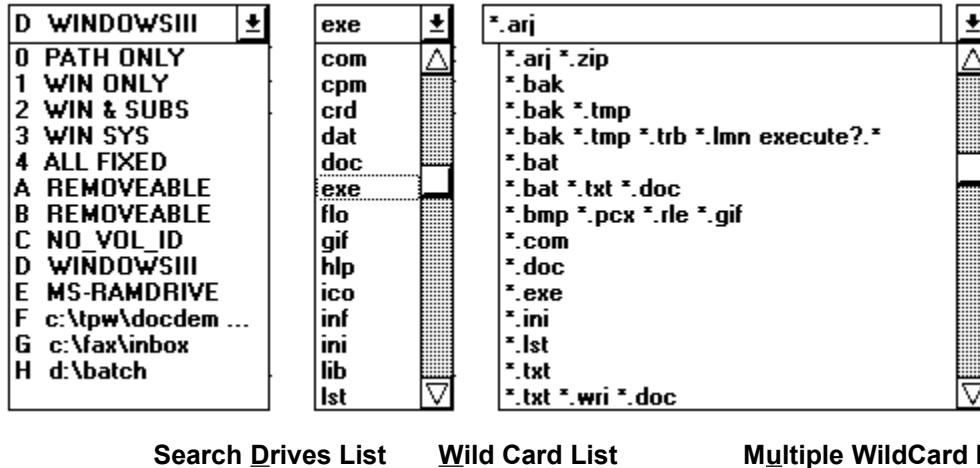
FileFinder Options # 0

This figure shows the results of using the FileFinder to:

1. Search ALL FIXED drives on the system (Drives C & D in this case),
2. Finding all files with having the extension of txt, wri, or doc,
3. With creation / modification date information between Jan 1, 1992 and May 19, 1992
4. That are greater than 20,000 bytes but less than 80,000 bytes in length
- 5 Having the case sensitive text 'path'.

Archive Master Version 2

FileFinder™ Mode



Selecting the **F9 FileFinder™** button will bring up a dialog box for finding files.

The user will also see a button labeled:

F8 Hide FileFinder™ : This button will *hide* the **FileFinder™** window. The intended use is to allow the user to select a different destination path when copying files from within the **FileFinder™**.

The **drop down** list box labeled **Search Drives** is used to select the devices to be searched. The first 5 options are:

- | | |
|-------------------------|--|
| 0 PATH ONLY | Searches all directories defined in your path statement. |
| 1 WIN ONLY | Searches the Windows directory only. |
| 2 WIN & SUBS | Searches the Windows directory and all sub directories. |
| 3 WIN SYS | Searches the Windows sub directory named SYSTEM . |
| 4 ALL FIXED | Searches all non removeable media drives *. |

* This **does not** include devices defined with the

SUBST command. Windows docs specifically recommends against using the **SUBST** command.

recommends

The remaining entries are dependent upon your system configuration. You will typically see:

- | | |
|----------------------------------|---|
| A REMOVEABLE | Floppy Drive A |
| B REMOVEABLE | Floppy Drive B |
| C YOURVOLNAME² | Fixed Drive |
| ~ | |
| F MS-RAMDRIVE | Ram Drive |
| G c:\dos | SUBST 'd device = SUBST G: C:\DOS |
| H d:\windows\appl ... | SUBST 'd device = SUBST H: d:\windows\application |
| Z YOURVOLNAME | Fixed Drive |

²The volume name you have assigned to the device.

The **drop down** list box labeled **Wild Card** lists all extensions found in your **WIN.INI** file plus **arj** and **zip**.

The **drop down** list box labeled **Multiple WildCards** allows the user to enter several wild cards. These need to be fully qualified **DOS** wild cards, ie. ***.txt**, **t*.***, **text????.***, etc. Each wild card must be separated by a space. The following is acceptable: ***.txt manual*.doc last????.inv**

Multiple WildCard entries may be saved to the **ARCMASSTR.INI** file by selecting the **4 WildCard Save** button in the **Options #1** group of **FileFinder™** buttons. As with **Configured Applications** and **Configured Categories**, unregistered copies are limited to **10 wild card** categories.

Archive Master Version 2

FileFinder™ Mode (cont)

The **edit field** labeled **Text Search** allows the user to enter text to search for in the files being located. A **check box** labeled **Case** indicates if the **Text Search** is to be **case sensitive** or not. Only those files meeting the wild card selection(s), that have the text specified will be placed in the list box. One particular useful use of searching for text is to find a file that has been archived. You can specify the searching of all *.zip or *.arj files for the text *mylostf.ile* on all drives, for instance. Date and file size restrictions may be specified along with attribute flags in the file search.

NOTE : When **none** of the **attribute check boxes** are checked, the search will locate specified files regardless of which attributes are set. If the user selects the **A** check box, only files having the **Archive** bit set will be listed. If the **H** & **S** check boxes are checked, only files having the **Hidden** and **SysFile** bits set will be listed. Once the user has selected the desired path or search device, the wild card(s) and text to be searched for (if any). The user selects the desired operation via the **FileFinder™** mode buttons. A brief description of each of these modes follows:

The user will see **10** buttons appear at the bottom of the application window. Initially, the following **Options #0** buttons are presented

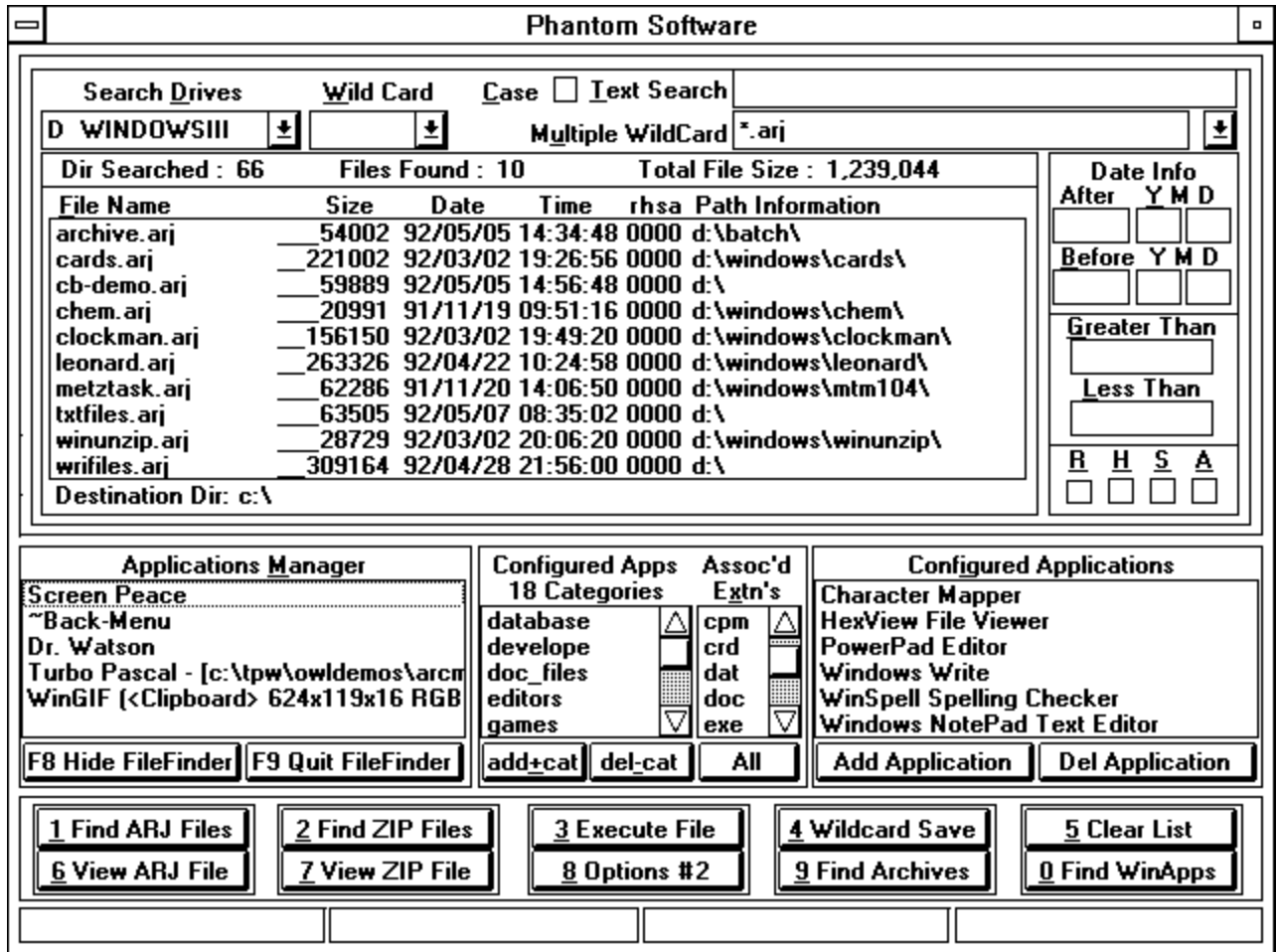
- 1 Find Files** : Initiates the search of the selected media for the wild card(s) and any other qualifiers specified, ie, text search, date, size and attributes.
- 8 Options #1** : Loads the **FileFinder™ Options #1** functions / operations described later.

The remaining **Options #0** buttons are:

- 2 Use Selt'd** : Terminates the **FileFinder™** and passes the **current selection** to the **Source File** list box. The intent is that a file has been located and the user will need to further process the data.
- 3 Execute File** : Tests to see if the **current selection** is executable and if not if there is an association for the extension. If either case is true the file / application will be launched.
- 4 Select All** : Selects all files listed in the list box.
- 4 DeSelect All** : Unselects all files listed in the list box.
- 5 Copy Selt'd** : Invokes the copying of **all selected files** to the **destination path** displayed directly beneath the files list box. If the destination path is incorrect, the user may **hide** the **FileFinder™** and select the desired destination.
- 6 Add To List** : Invokes the searching of selected media for files matching the selection criteria without clearing the existing files from the list.
- 7 View Selt'd** : Tests to see if the **current selection** appears to be text and if so loads the file into the **FileViewer** screen. The **FileViewer** has no editing capabilities. If **text** was **searched** for, the line with the first occurrence of the **found text** will be positioned to the top line displayed in the list box.
- 9 Remove Selt'd** : Removes all selected files in the files list box.
- 0 Erase Selt'd** : Invokes the deletion / removal of the selected files from the media.

Archive Master Version 2

FileFinder™ Mode (cont)



FileFinder Options # 1

This figure shows the results of using the FileFinder to:

1. Search the 'D' drive (Volume Name of : WINDOWSIII)
2. For all files with the extension of arj
 - a. Regardless of Date / Size / Text etc.

NOTE : It is possible to search for ARJ & PKZIP archives and to search for text. You could find all ZIP files that have 'manual.doc' or 'readme' for instance. FileFinder will list only those files that have the specified text.

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FileFinder™ Mode (cont)

Initially, the following **Options #1** buttons are presented

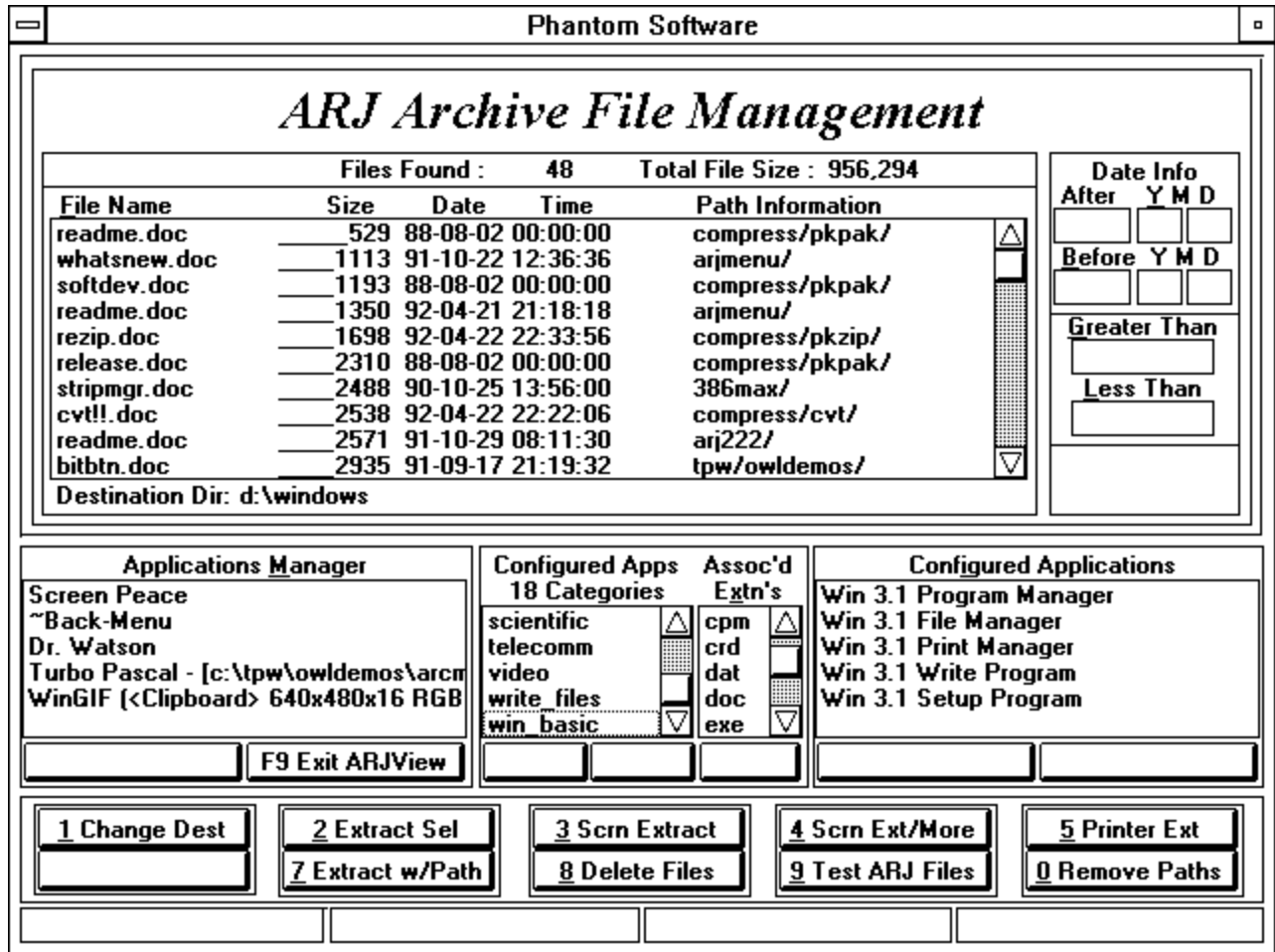
- 1 Find ARJ Files** : Sets the wild card to **.arj* and invokes the search operation.
- 2 Find ZIP Files** : Sets the wild card to **.zip* and invokes the search operation.
- 4 Wildcard Save** : Tests to see if an existing *wild card category* exists in the **ARCMASSTR.INI** file. If not, the *wild card string* is saved for future use.
- 8 Options #2** : Loads the *FileFinder™ Options #2* functions / operations described later.
- 9 Find Archives** : Will search all files meeting the wild card, date, size and attribute qualifiers to see if any appear to be either an **ARJ** or **ZIP** archive. The main purpose of this operation is to locate archive(s) that do not have standard **ARJ & ZIP** extensions. This operation will find self extracting archives also.
- 0 Find WinApps** : Will search all **.EXE* files on the selected device and path and determine if they are **Windows** applications. The **Windows** applications will be placed in the list box. This mode is useful when setting up **Configured Applications**. The user selects the file in the list box, selects the **Add Application** button to add the application to the currently selected category. In the case of Windows Write files to a category the user can select the file, select **Execute File** and determine the text description to be given for the application being added. The same applies for other files that usually do not have descriptive file names, ie. *picture.bmp, somethin.pcx, igiveup.gif, etc.*

The remaining **Operations #1** buttons are:

- 3 Execute File** : Tests to see if the *current selection* is executable and if not if there is an association for the extension. If either case is true the file / application will be launched.
- 5 Clear List** : Removes all files listed from the list box.
- 6 View ARJ File** : Tests the *current selection* to see if it appears to be an **ARJ** archive. If the file qualifies the archive data is displayed in a **ViewFiles** list box.
- 7 View ZIP File** : Tests the *current selection* to see if it appears to be a **ZIP** archive. If the file qualifies the archive data is displayed in a **ViewFiles** list box.

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FileFinder™ Mode (cont)



FileFinder ARJ File Operations

This figure shows the results of listing an ARJ archive while in the FileFinder mode.

You may restrict the files listed by specifying Date / Size restrictions.

The user may perform any of the listed functions upon the selected archived files.

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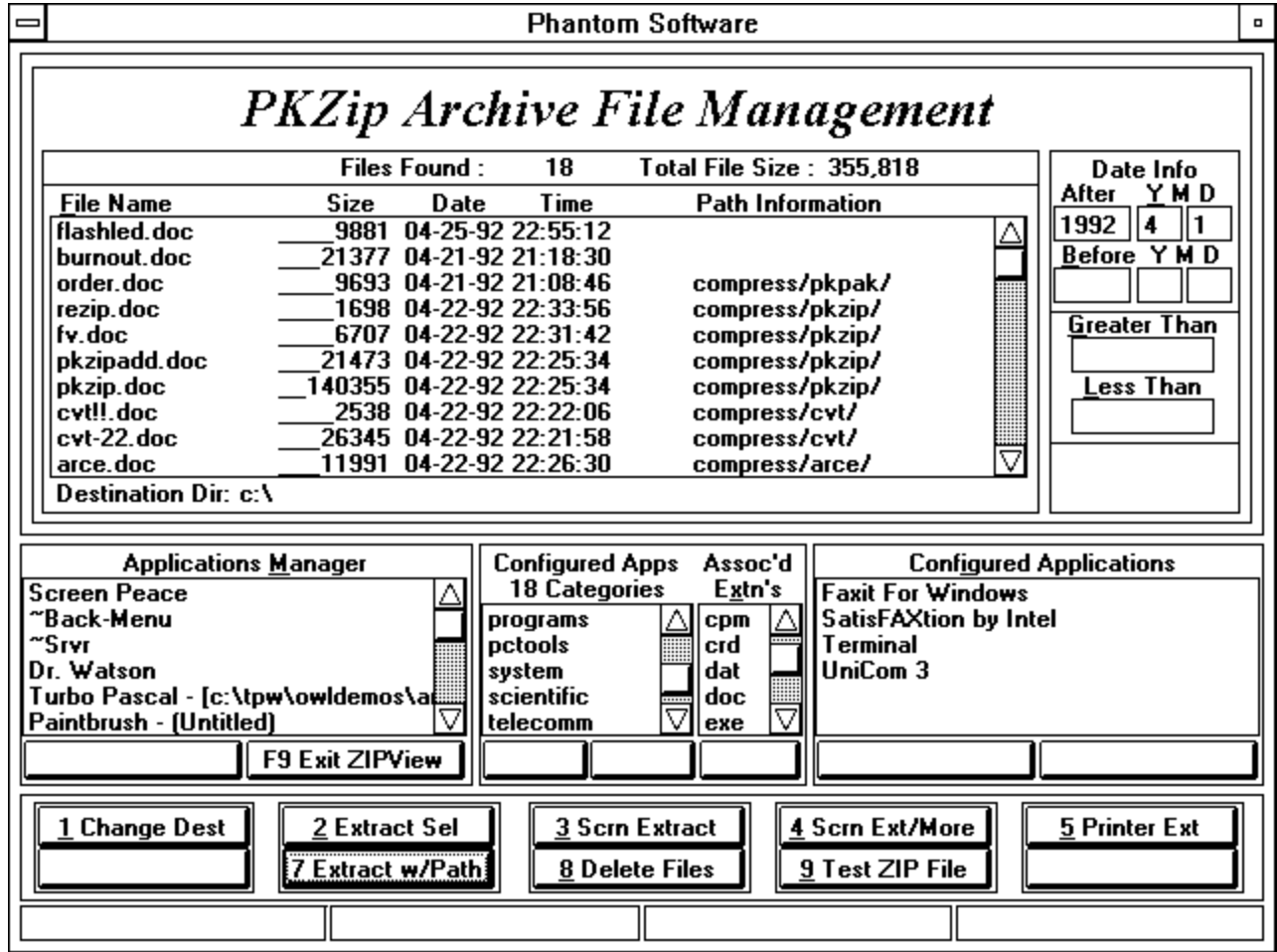
FileFinder™ Mode (cont)

Executing **6 View ARJ File** while having an **ARJ** archive selected in the *FileFinder™* list box will result in the files stored in the archive being listed in the *FileFinder™* list box. The user may specify **date & time** restrictions for the archived files being listed. Additionally, the user is presented with several options to perform upon the listed files or the archive. They are:

- 1 Change Dest** : Allows the user to change the destination directory.
- 2 Extract Sel** : Extracts the **selected files** to the destination directory.
- 3 Scrn Extract** : Extracts the **selected files** to the screen.
- 4 Scrn Ext/More** : Extracts the **selected files** to the screen with pauses.
- 5 Printer Ext** : Extracts the **selected files** to the printer.
- 7 Extract w/Path** : Extracts the **selected files** to the destination directory with stored path information. If the stored path does not exist the user **will be prompted** whether to create the directory or not.
- 8 Delete Files** : Will **delete** the **selected files** from the archive.
- 9 Test ZIP Files:** Will test the **selected files** in the archive.
- 0 Remove Paths** : Will remove the stored path information from the selected files.

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FileFinder™ Mode (cont)



FileFinder PkZIP File Operations

Shown listed are files contained in a PKZIP archive that have Creation / Modification dates after April 1, 1992.

The user may perform any of the listed functions upon the selected archived files.

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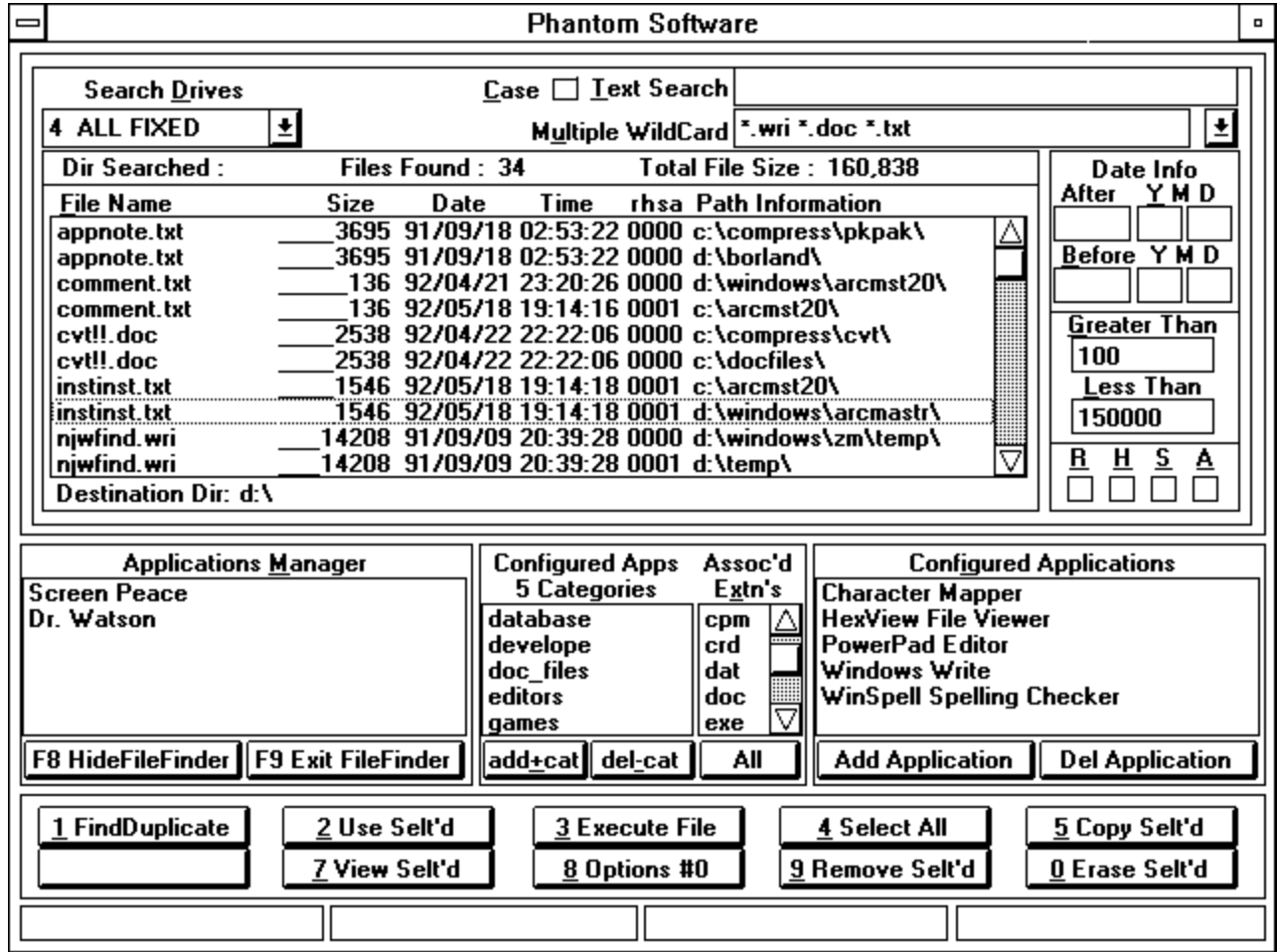
FileFinder™ Mode (cont)

Executing **7 View ZIP File** while having a **PKZIP** archive selected in the **FileFinder™** list box will result in the files stored in the archive being listed in the **FileFinder™** list box. The user may specify **date & time** restrictions for the archived files being listed. Additionally, the user is presented with several options to perform upon the listed files or the archive. They are:

- 1 Change Dest** : Allows the user to change the destination directory.
- 2 Extract Sel** : Extracts the **selected files** to the destination directory.
- 3 Scrn Extract** : Extracts the **selected files** to the screen.
- 4 Scrn Ext/More** : Extracts the **selected files** to the screen with pauses.
- 5 Printer Ext** : Extracts the **selected files** to the printer.
- 7 Extract w/Path** : Extracts the **selected files** to the destination directory with stored path Information. If the stored path does not exist the directory **will be** created.
- 8 Delete Files** : Will **delete** the **selected files** from the archive.
- 9 Test ZIP Files:** Will test the **selected files** in the archive.

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Duplicate FileFinder™ Mode



Duplicate FileFinder

This figure shows the results of using the Duplicate FileFinder to:

1. Search ALL FIXED drives on the system (Drives C & D in this case),
2. Finding all duplicate files with having the extension of txt, wri, or doc,
3. Greater than 100 bytes and less than 150,000 bytes in length

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Duplicate FileFinder™ Mode

Initially, the following **Options #2** buttons are presented

1 FindDuplicate : Loads the **Duplicate FileFinder** options dialog box. The user is presented with the following options:

Entire Device(s)	Compare All Extensions
Selected Directories	Compare Wild Card Only

8 Options #0 : Loads the **FileFinder™ Options #0** functions / operations described previously.

There are **four Duplicate FileFinder** option combinations:

1. Entire Device(s) & Compare All Extensions :

The **Selected Device** list box selection determines the devices or paths to search. All files that meet the supplied wild card(s), text, date, time and attribute selections will be tested to all other files found on the selected device(s) or paths. This mode may take a considerable length of time depending on the number of files along the selected device(s) or path(s). It will, however, find duplicate files that have completely different file names than the search criteria;

2. Selected Directories & Compare All Extensions :

The user is presented with a list of all directories along the **Selected Device** list box selection. The user selects the directories to search. The rest of this operation is identical to the previous description.

3. Entire Device(s) & Compare Wild Card Only :

The **Selected Device** list box selection determines the devices or paths to search. All files that meet the supplied wild card(s), text, date, time and attribute selections will be tested against each other to locate identical files. This mode typically takes much less time than the prior modes due to less files being compared. If the user enters wild card(s) that selects virtually any file the compare time may be quite lengthy.

4. Selected Directories & Compare Wild Card Only :

The user is presented with a list of all directories along the **Selected Device** list box selection. The user selects the directories to search. The rest of this operation is identical to the previous description.

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Duplicate FileFinder™ Mode (cont)

The remaining **Operations #2** buttons are:

- 2 Use Selt'd** : Terminates the *FileFinder™* and passes the *current selection* to the **Source File** list box. The intent is that a file has been located and the user will need to further process the data.
- 3 Execute File** : Tests to see if the *current selection* is executable and if not if there is an association for the extension. If either case is true the file / application will be launched.
- 4 Select All** : Selects all files listed in the list box.
4 DeSelect All : Unselects all files listed in the list box.
- 5 Copy Selt'd** : Invokes the copying of *all selected files* to the *destination path* displayed directly beneath the files list box. If the destination path is incorrect, the user may *hide* the *FileFinder™* and select the appropriate destination.
- 7 View Selt'd** : Tests to see if the *current selection* appears to be text and if so loads the file into the *FileViewer* screen. The *FileViewer* has no editing capabilities. If *text* was *searched* for, the line with the first occurrence of the *found text* will be positioned to the top line displayed in the list box if possible.
- 9 Remove Selt'd** : Removes all selected files in the files list box.
- 0 Erase Selt'd** : Invokes the deletion / removal of the selected files from the media.

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Atomic Clock Service Access

Esc	Time Zone & Day Light Savings Time Settings				Enter	
	<input type="radio"/> Pacific	<input type="radio"/> Mountain	<input checked="" type="radio"/> Central	<input type="radio"/> Eastern	<input type="radio"/> GMT / UTC	
	<input checked="" type="checkbox"/> Observes Day Light Savings Time	GMT / UTC Offset : <input type="text" value="0"/>				
<input checked="" type="radio"/> National Institute of Science & Technology	Baud Rate :	<input checked="" type="radio"/> 1200	<input type="radio"/> 2400	<input type="radio"/> 4800	<input type="radio"/> 9600	
<input type="radio"/> Naval Observatory - Washington DC	COM Port :	<input checked="" type="radio"/> Com 1	<input type="radio"/> Com 2	<input type="radio"/> Com 3	<input type="radio"/> Com 4	
Outside Access Code	Parity :	<input type="radio"/> Odd	<input type="radio"/> Even	<input checked="" type="radio"/> None		
<input type="text" value="9,,W"/>	Stop Bits :	<input checked="" type="radio"/> 1 Bit	<input type="radio"/> 2 Bits			
	Local Phone Call	Data Bits :	<input type="radio"/> 7 Bits	<input checked="" type="radio"/> 8 Bits		
Automatically Access Selected Service : <input type="radio"/> Disabled <input checked="" type="radio"/> Weekly <input type="radio"/> Monthly <input type="radio"/> Quarterly						

Atomic Clock Access Setup Dialog Box

Archive Master allows accessing either the :

National Institute of Science & Technology - Boulder, Colorado (NIST)
Naval Observatory - Washington, District of Columbia (NO)

to set the users computer **date** and **time** to an extremely accurate reference. It is very unlikely that after using this feature that your PC's clock would be off by more than one second. The data provided by these services can be manipulated to derive the current **year, month, day, hour, minute** and **second** referenced to the **Royal Observatory** formerly located at **0 degrees longitude** at **Greenwich, England**. The local time at **Greenwich, England** is routinely referred to by the following terms:

UTC - Universal Time Coordinated
GMT - Greenwich Mean Time

Time Zone Area Radio Buttons

The user is allowed to select the appropriate **time zone** for their locality.

The **radio** button labeled **GMT / UTC** and its corresponding **edit** pane labeled **GMT / UTC Offset** is intended to allow users **specify** their deviation from **0 degrees longitude**. When this mode is selected the **LED** time display will be labeled **GMT / UTC** instead of **System Time AM** or **PM**.

The **check box** for observance of **Day Light Savings (DST)** time has **two** functions:

NIST : Transmitted data indicates if the Continental US is on **DST**. Some locations, ie. Indianapolis and Phoenix do not observe **DST**. If you are accessing **NIST** and your locality observes **DST** then keep this box checked at all times since the data from **NIST** will indicate if you are on **DST** or not.

NO : Transmitted data makes **no** reference to whether we are on **DST** or not. You may either manually modify the received time using **Windows Control Panel** and add **1 hour** during the **DST** period or you may check the box and the data received from the **NO** will be compensated.

The controls located in the center of the dialog box are self explanatory and the selections are saved to the users **ARCMASSTR.INI** file. The **Outside Access Code** edit pane is provided to allow those users that need to obtain a separate outside line to do so. The example shown above **9,,W** tells the modem to:

Dial 9 ,<pause> ,<pause> Wait for another dial tone before dialing either **NIST** or **NO**.

You may indicate if the telephone call is a **Long Distance** or a **Local Phone Call**.

Port / Modem Configuration Area

All settings in this area depend on **your** particular system setup.

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Please note that both the **NIST** and **NO** only transmit at **1200 baud** so there isn't any benefit to setting your mode to a higher baud rate. The length of time that we communicate with either service is typically less than **10 seconds**.

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Atomic Clock Service Access

Automatically Access Selected Service Area

Disabled : The selected service will not be accessed automatically.

Weekly : The selected service will be called between **00:00 am & 00:05 am** each Monday.

Monthly : The selected service will be called between **00:00 am & 00:05 am** on the first day of each month.

Quarterly : : The selected service will be called between **00:00 am & 00:05 am** on the first day of **January, April, July and October**

Archive Master will make up to **10** attempts to contact the selected service. You may periodically access either service by placing the cursor beneath either the **TIME LED** display and clicking the **right mouse button**. Select the **Set To Atomic Clock** menu item to invoke the above dialog box.

Currently, the services phone numbers and modem commands (**ATDT / ATH0 / etc**) are hard coded. If enough interest is indicated, I will (within reasonable limits) put this information in the **ARCMASSTR.INI** or another **INI** file. Additionally, if similiar service(s) are available in Europe and someone with this need can provide me with the information on the structure of the transmitted data I will modify the **TIMEDATE.DLL** to provide the same support for our European customers.

Archive Master Version 2

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A charge not to exceed \$5.00 (US), to cover the cost of copying the program and media cost is not considered a fee.

The following registration section contains further information on licensing.

Archive Master Version 2

REGISTRATION

Registration IS required by all users after the original 30 day trial period.

A registration fee of \$ 25.00 (US), made payable to the author(s), will in return provide to the registering individual, organization or institution:

1. A copy of the most recent version of *Archive Master* on either 3.5 or 5.25 media.
3.5 (1.44 or 720) / 5.25 (1.2 Only)
2. Sophisticated installation program allowing automatic or user selected installation.
2. Registration data allowing elimination of the nag screens.
3. Notification of future releases and enhancements to this product.
4. 25% discount on future products from *Phantom Software*

NOTE : A printed manual is available for an additional \$ 5.00 (US).

Once registered there will NEVER be another registration required. No matter how high the version number becomes the users registration WILL remain valid. Should a registered user desire to have a new version sent versus downloading from a BBS there will be a processing fee of \$ 5.00 for the diskette and shipping (US Mail).

Commercial, governmental and institutional users interested in licensing multiple copies of *Archive Master* are requested to contact the author(s) for specific details. General guide lines on site licenses are as follows:

Governmental, Commercial and Institutional Entities

All Governmental, Commercial, and institutional utilization must be registered.

Site licenses are available.

The following schedule of quantity discounts are representative of site license fees:

5 - 19 copies	5% discount
20 - 49 copies	10% discount
50 - 99 copies	20% discount
100 + copies	25% discount

Large quantity purchases are negotiable. Discounts are NOT cumulative.

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