



## **WSARCH32 Help Index**

If you have any questions about WSARCH32 or have problems getting it to run, email David Woakes (david.woakes@dial.pipex.com) with a description of the problem, the version of WSARCH32 you are using, the Winsock stack you are using and it's version.

[Performing an Archie Query](#)

[Search Type](#)

[Archie Server](#)

[Aborting a query](#)

[Status Bar](#)

### **Common Problems**

[Common Problems](#)

### **Menu Commands**

[File menu](#)

[Edit menu](#)

[Options menu](#)

[View menu](#)

[Help menu](#)

### **Copyright Notices**

[Copyright](#)

## **File menu commands**

The File menu offers the following commands:

Exit Exits WSARCH32.

## **Edit menu commands**

The Edit menu is currently empty.

## **Options menu commands**

The Window menu offers the following commands, which enable you to arrange multiple views of multiple documents in the application window:

User Preferences    Allows the user to specify default Archie server and search type.

### **View menu commands**

The Window menu offers the following commands, which enable you to arrange multiple views of multiple documents in the application window:

Archie Query      Allows the user to remove the query dialog bar.

## Help menu commands

The Help menu offers the following commands, which provide you assistance with this application:

- Index                      Offers you an index to topics on which you can get help.
- About                      Displays the version number of this application.

### **Exit command (File menu)**

Use this command to end your WSARCH32 session. You can also use the Close command on the application Control menu.

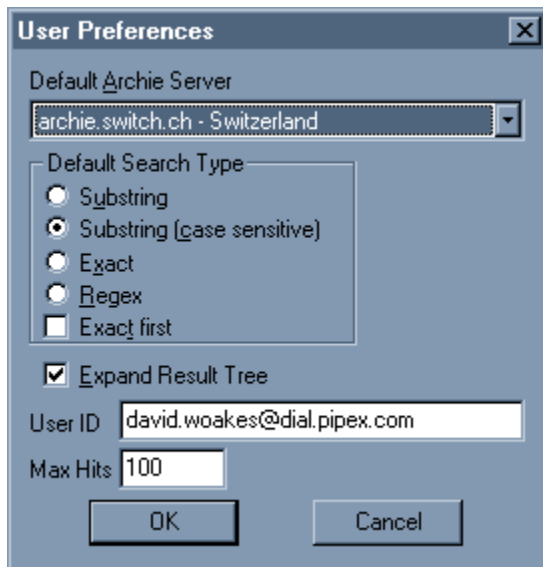
#### Shortcuts

Mouse: Double-click the application's Control menu button.

Keys: ALT+F4

## User Preferences (Options menu)

When this command is selected the following Dialog will appear:



The selections for default Archie server and default search method will be stored and used as the default startup values, next time you run WSARCH32.

The User ID field is used in the Archie Request to identify you. This does not need to be changed from 'nobody', the default value.

The Max Hits field maybe set to any value from 1 to 500 and is the maximum number of matches that the archie server will make. Setting this to a value like 20, will help to decrease the amount of time taken to perform your query.



### **Help Contents command (Help menu)**

Use this command to display the opening screen of Help. From the opening screen, you can jump to step-by-step instructions for using WSARCH32 and various types of reference information.

Once you open Help, you can click the Contents button whenever you want to return to the opening screen.

## **Help Topics command (Help menu)**

Use this command to display the Help index.

### **About command (Help menu)**

Use this command to display the about dialog.

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## Performing an Archie Query

1. To perform a query enter a search string in the Search for box.



Search for

2. Select an archie server from the archie server drop down list.

Archie Server   

3. Enter a match domain if desired, e.g. "uk" to restrict the search to entries for hosts end with "uk" or "src.doc.ic.ac.uk" to restrict the search to the that site.

Domain

4. To start the query press return, Alt+E or use the mouse on the "Search button" . The "Search for", "Archie Server" and "Domain" boxes are disabled along with the search type radio buttons and the "Search" button. The "Abort"  button is enabled.

If desired the user may abort the search at any stage by pressing Alt+B or by selecting the "Abort" button.

Whilst the query is being performed, various status indications are given in order that the progress of the query may be seen. The indications are in the status bar, and also in the title bar of the application. The following is a brief description of the stages of an archie query

1. A name look up is done to translate the name of the archie server to numeric form.
2. When this completes a request is put together and sent to the archie server. At this point the title bar changes and will give the name of the archie server along with the initial time out period. If no response is received, the time period is doubled and the request re-transmitted. This will be repeated up to three times before the request is deemed to have failed.
3. If a packet is received, the archie server will send back an acknowledgment from which may contain queue position and system time. You will not be advised of any changes in either of these, as they are sent once only by the archie client. The values returned are displayed in the status bar. The time out period will also be set to a value advised by the archie client, usually 900s if it your query is not going to be performed immediately.
4. The next packet from the archie server usually adjusts this to 180s and is a good indication that your query is now being processed.
5. When packets start to arrive the time out is then reduced to 5s and the packets received are indicated in the status bar. When the total number of packets is known this will be displayed as "packet x of y", otherwise "packet x" is displayed.
6. When the last packet is received, WSARCH32 will translate the results. If there are a large number of matches, this can take several seconds.
7. The results will then be displayed in the Result View. The first host will be displayed selected. The directories on that host that contain matches are then displayed with the first directory selected. The files in that directory are then displayed with the first file selected.

Further details on the selected file are displayed in the [file details](#) section.

### **Search For box**

The term that will be used for the search should be entered in this box. How this will be interpreted by the server is dependent on the [Search Type](#) selected. The term is basically a simple string, e.g:

WSARCH32  
pkz204g.exe

etc.

## Search Type

The type of search performed by the archie client is determined using the search type radio buttons.

- Substring**
- Substring (case sensitive)**
- Exact**
- Regex**
- Exact first**

The choices have the following effects:

- Substring:** A simple, everyday substring search. A match occurs if the file (or directory) name in the database contains the user-given substring.
- Substring (case sensitive):** As above but the case of the strings involved becomes significant.
- Exact:** The fastest search method of all. The restriction is that the user string (the argument to the 'prog' command) has to **exactly** match (including case) the string in the database. This is provided for those of who know just what you are looking for.
- Regex:** Use ed(1) regular expressions. Searches the database with the user (search) string which is given in the form of an ed(1) regular expression.

NOTE: Unless specifically anchored to the beginning (with ^) or end (with \$) of a line, ed(1) regular expressions have ".\*" prefixed and appended to them. For example, the following are equivalent

**. \*xnlock.\*** and **xnlock**

Thus the regex match becomes a simple substring match.

For example:

**knob** - matches any string containing the substring '**knob**'

**a\*splat** - matches strings that contain zero or more **a**'s followed by the string '**splat**'

**#.\*#** - would match anything containing a '**#**' followed by zero or more occurrences of **\_any\_** character, followed by another '**#**'

Other special characters that may be useful are '[' and ']', which are used together. They can be used to specify either a set of characters to match or a set of characters to not match. An example of the first case is:

**[abcd]**

which matches any of one of the four letters, while an example

of the second case is:

**[^abcd]**

in which the '^' **in the first position** means that any character **not** in the list will be matched.

Ranges can be specified with a '-'.  
[a-z]

**[a-z]**

matches any lower case letter and,

**[^a-z]**

matches any character other than a lower case letter.  
Furthermore, you can specify multiple ranges such as:

**[%@a-z0-9]**

or

**[^A-Za-z]**

meaning: match '%' or '@' or any lower case letter or digit, and match any character other than a letter, respectively.

When you want to match a character which has a special meaning you should precede it by a back slash, '\'.  
Some final examples of REs are:

Some final examples of REs are:

**[Mm]ac.txt** - match anything containing the string "Mac.txt" or "mac.txt"

**[^aeiou][^aeiou]\*** - match any string consisting entirely of non-vowels

**foo-v[0-9].tar.Z** - match "foo-v0.tar.Z" through "foo-v9.tar.Z"

### Exact first

This is a check box and is means that the exact search method will be used first. If no matches are found then the method selected using the radio buttons will be used. This box is disabled if the exact search method is chosen.

Note that changing the search type selected after the search is performed will have no effect on the displayed list of matches.

## Archie Server

**Archie Server**   

This drop down list box contains the list of archie servers that are in the "Archies" section of the file "WSARCH32.INI" (NB this file must be in either WSARCH32's working directory, the windows directory or the same directory as the program). The default archie server is displayed in the box when the program is first started.

The list supplied is that given by archie.doc.ic.ac.uk at the time of release. '\*' after the name of a server means that it uses V3 of the Archie software. This is for information purposes only and is not used in any way by WSARCH32 to perform the query.

When the search is started, the Archie Server name is truncated at the first '\*' or white space (tab or space) in the name.



## Domain

Domain

This field is used to restrict the search to a subset of hosts within a particular domain, e.g. ".ac.uk" will restrict the search to academic sites in the UK.

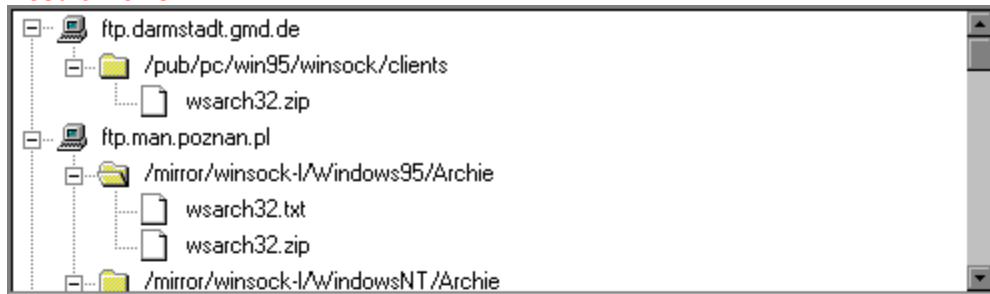
### **Aborting a query**

A query can be aborted at any stage by pressing Alt+B or selecting the "Abort" button





Any information retrieved will be lost.

## Result Views



The result view displays the result as a tree view.

### File details

Filename	Unix ...	Size	Modified	Host IP Addr	Archie Date
 wsarch32.txt	-rw-r-...	8534 bytes	22-Dec-1995 11:41:00	150.254.173.3	20-Jan-1996 14:28:24
 wsarch32.zip	-rw-r-...	161879 bytes	22-Dec-1995 11:41:00	150.254.173.3	20-Jan-1996 14:28:24

This section of the result display contains the following fields:

- File Name** This is the full name of the file. It is prefixed with "FILE: " if it is a file and "DIRECTORY: " if it is a file.
- Size** This is the size of the file in bytes.
- Mode** This is the access mode of the file.
- Date** This is the files own date stamp.
- Archie Date** This is the date that archie server last checked the files existence.
- Host Address** This is the numeric internet address of the host upon which the file resides.

## Status Bar



The image shows a horizontal status bar with a grey background. On the left side, it contains the text 'For Help, press F1'. On the right side, there are three small rectangular boxes, each containing text: 'Packet none', 'Queue unknown', and 'Time unknown' from left to right.

The three boxes at the end of the status bar are used as follows (going from right to left):

The time that the archie server thinks it will take to process the query, when it starts the query.

The queue position when the query is received

The number of packets received.

## Common Problems

The following is the list of known problems with WSARCH32 and how they can be solved.

### 1. There is no response from the server, even though you can telnet to it.

This is usually caused by a firewall on your site blocking the incoming packets because they are UDP packets. You will need to talk to your network supervisor. WSARCH32 (Version 0.2+) uses a non privileged port number above 2050 (the actual number may vary), so there shouldn't be problems with letting them in. Some administrators take a different view and refuse to let these packets in. There is nothing I can do if you cannot get the network administrator to change there philosophy. Try the latest version of WSARCH32 available from <http://dspace.dial.pipex.com/town/square/cc83/>.

### 2. You get the message "WINSOCK ERROR: NO\_DATA: No entry found".

This means that the name server lookup failed. Try using telnet to connect to the archie client. If this succeeds from the same machine then there is a problem with name resolution. If you are probably using Chameleon's winsock, try reducing your list of name servers to one or check whether the latest version fixes this.

### 3. With PC-NFS V5.1 you will often get the error WINSOCK ERROR: EMSGSIZE.

I believe this is caused by an underlying restriction in the winsock stack. There is nothing that I can do about this.

Actually I think someone may have solved this by ensuring that all the files used by the PC-NFS software were in the DOS path.

### 4. With Novell Winsock, an empty error dialog is displayed when a search is started.

Hopefully this version should at least display an error number here.

### 5. With Novell Winsock, searches fail with the error ENOBUFS.

Check your net.cfg file. If there are lines in it like:

```
tcp_sockets 32
udp_sockets 8
raw_sockets 1
```

then taking them out might fix the problem, but will probably restrict the winsock capabilities. I wouldn't really suggest that you play with these settings unless you are fairly expert on Novell.

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