

## **ARexxCommand**

**COLLABORATORS**

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# Chapter 1

## ARexxCommand

### 1.1 Contents

QuickFile ARexx Command interface

QuickFile v3.16 24 June 1995 Copyright Alan Wigginton

QuickFile accepts ARexx commands from macros (ARexx scripts invoked from within QuickFile) and from external scripts which may be run from another application or from the shell or workbench.

QuickFile's ARexx port is named QUICKFILE.01 for the first copy of QuickFile running, QUICKFILE.02 for the next and so on. As QuickFile can open multiple files, it is simplest to use one copy.

Not all QuickFile functions can be executed via an ARexx command. If you would like to see some other commands added, let me know and I will see what I can do.

Syntax Notes

Notation for command description

Return Codes

Command Reference

### 1.2 Syntax Information

QuickFile expects commands to consist of a command name followed by a series of parameters separated by spaces. Parameters that contain spaces must be enclosed in quotes, therefore two sets of quotes are required in ARexx code as ARexx will remove the first set of quotes when it parses the

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command.

For example, to pass the following command to QuickFile

```
ReqMsg 'This is a demo message'
```

the ARexx code required is

```
"ReqMsg 'This is a demo message'"
```

Both ARexx and QuickFile will accept either double or single quotes.

You should also include quotes around values included from variables if the variable value could contain spaces. For example:

```
pull filename  
address quickfile.01 "openfile '"filename'"
```

If filename was entered as "My file" this would result in the following being (correctly) passed to quickfile:

```
openfile 'My file'
```

If the single quotes had been omitted this would have caused an error. The easiest way to check the string being passed is to display it using say. This will usually make things clear.

For simplicity avoid using spaces in field names. While they can be used, you are prevented from using the GetRec command which uses field names to form compound variables.

QuickFile will process commands regardless of case. Case is preserved in field values.

Confusion with case is a common problem with ARexx. ARexx always converts any tokens to upper case unless they are in quotes. A common trap is that the PULL and ARG statements translate to upper case as they are equivalent to PARSE UPPER PULL and PARSE UPPER ARG. To preserve case use PARSE PULL and PARSE ARG instead.

### 1.3 Command notation convention

The following convention is used in the command descriptions

Command names use Initial Capitals eg GetRec

Values in square brackets [ ] are optional

You must include one of the values in braces {A | D}

Repeated values are indicated by ellipsis ...

Keywords are shown in UPPER CASE

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Lower case words represent values you provide

## 1.4 Return Codes

The return codes from QuickFile have the following general meanings. See the command descriptions for details

```
5 Warning or object not found.
10 Command failed
12 Unknown command
15 System error - usually memory allocation error
20 Syntax error
```

## 1.5 commands

AddSearch

OpenFile

CloseWin

OpenWin

ClrRec

PutField

DelRec

Query

DoSearch

Refresh

FreeIndex

Report

FreeView

ReqChoice

---

GetField  
ReqMsg  
  
GetRec  
ReqString  
  
GoTo  
  
SaveFile  
  
InsRec  
  
SetFile  
  
LoadView  
  
SetIndex  
  
NewSearch  
  
SetView  
  
Next  
  
Sort  
  
NumRecs  
  
UpdRec  
  
WintoFront

## 1.6 addsearch

```
AddSearch {AND | OR} fieldname operator value1 [value2]
```

Adds a new search criteria to the existing criteria. Use the  
NewSearch  
command to replace any existing criteria and use  
DoSearch  
to start the  
search.

AND | OR Determines how multiple criteria are to be handled. See

---



QuickFile docs for full details.

See the

NewSearch  
command for details of the remaining parameters.

Results

None

Return codes

10 Unknown field or operator  
20 Insufficient parameters or first parameter is not AND or OR

Example

```
/* select records where surname is brown or smith */  
"newsearch surname equal brown"  
"addsearch or surname equal smith"  
"dosearch"
```

## 1.7 closewin

CloseWin

Closes the current window and file. You cannot close the last window with an ARexx command. The first window in QuickFiles internal list becomes the current window,

Results

None

Return codes

5 You tried to close the last window.

Example

```
"closewin"
```

## 1.8 clrrec

ClrRec

Clears all fields in the current record. Use this to clear all fields before setting up the values for a new record

Results

None

Return codes

None

Example

```
"ClrRec"  
"putfield surname Brown"
```

```
"putfield firstname John"  
"putfield address '23 George Street'"  
"insrec"
```

## 1.9 delrec

DelRec

Deletes the current record. The next record becomes the new current record.

Results

None

Return codes

5 There are no records in the file.

Example

```
"getfield expirydate"  
if result < today then  
"delrec"
```

## 1.10 dosearch

DoSearch

Searches through the data base and selects records matching the search criteria. The criteria are established using the

NewSearch  
and

AddSearch  
commands.

It places the matching records in an index named SELECTED. It does not change the current index.

Results

RESULT contains the number of records matched.

Return codes

None

Example

```
"newsearch surname equal brown"  
"addsearch or surname equal smith"  
"dosearch"  
"setindex selected"
```

## 1.11 freeindex

---

## FreeIndex

Discards the current index and frees the storage used. Only temporary indexes, ie those named SORTED and SELECTED, can be freed.

### Results

None

### Return codes

10 Not a temporary index

### Example

```
"setindex selected"  
"freeindex"
```

## 1.12 freeview

### FreeView

Discards the current view from memory and frees associated storage. The first view in the loaded list becomes the current view. The display is redrawn. You must keep at least one view. It does not affect the disk file containing the view.

### Result

None

### Return codes

5 You tried to free the last view

### Example

```
"setview mylist.view"  
"freeview"
```

## 1.13 getfield

### GetField field

Returns value of field from the current record. See also  
GetRec  
which  
obtains all fields for the current record.

### Result

Field value is placed in RESULT.

### Return Codes

10 Field requested does not exist  
20 Field name omitted

### Example

---

```
"goto Smith"  
"getfield surname"  
say "Found name" result * Displays==> Found name Smith */
```

## 1.14 getrec

GetRrec stem

Returns values for all fields from the current record in compound variables in the form of stem.fieldname where fieldname is the field name from the file definition (not always the title in the view).

You cannot use this if your field names contain spaces; use  
    GetField  
instead.

Results

stem.fieldname variables updated.

Return codes

20 Syntax error. stem not provided.

Example

```
"next"  
"getrec val"  
say val.firstname val.surname
```

## 1.15 goto

GoTo value1 [value2...]

Sets the current position to the first record with the current key matching the specified values. Value1 is the value for index field 1 and Value2 is the value for index field 2 etc.

QuickFile does not tell you if the requested record was not found. It will happily position on the next record. You must compare the record with the requested key values to check if they were found.

Result

None

Return Codes

5 End of file encountered. Requested key higher than any record.  
10 More values specified than index fields

Example

```
"goto Brown John"  
"getrec val"  
if val.surname ~= "Brown" | val.firstname ~= "John" then  
say "Record not found"
```

## 1.16 insrec

InsRrec

Adds a new record to the file. You use  
PutField  
to set the field values  
before issuing InsRrec. Any fields not updated with PutField will retain  
the values from the previous record. Use  
ClrRec  
to clear all values  
before setting up your new record.

Results  
None

Return codes  
10 Error occurred. Probably duplicate key.

Example

```
"ClrRec"          /* omit this to use values from previous record */  
"putfield surname Brown"  
"putfield firstname John"  
"putfield address '23 George Street'"  
"insrec"
```

## 1.17 loadview

LoadView path

Loads the named view. The full name including extension must be specified.  
This does not change the display. Use the  
SetView  
command to change the  
current view.

Result  
None

Return codes  
10 File not found  
10 path name not specified

Example

```
"loadview df0:QuickFile/Example1/Product.view"
```

## 1.18 newsearch

NewSearch fieldname operator value1 [value2]

Replaces any existing search criteria with a new one. Use the  
AddSearch

---

command to add additional criteria, if required, and the  
DoSearch  
command to start the actual search.

operator The search operator. One of the following:

- like
- equal
- between
- notlike
- notequal
- sounds

value1 The value to be searched for

value2 The second value required for the between operator. Can also  
be used for others. See QuickFile docs for more details.

Results

None

Return codes

- 10 Unknown field or operator
- 20 Insufficient parameters

Example

```
/* find all current memberships that expire in March */  
"newsearch status equal current"  
"addsearch and 'expiry date' between 01-mar-95 31-mar-95"  
"dosearch"
```

## 1.19 next

Next [n]

Moves n records forward or backward through the file. If n is omitted 1 is  
assumed. If the resulting position is outside the range of the file, the  
position will be the first or last record. n can be positive or negative.

Result

None.

Return codes

- 5 No more records. Positioned at first or last record

Example

```
"Next -9999" /* move to start of file */  
"Next" /* move to second record */
```

## 1.20 numrecs

NumRecs

---

Returns number of records in the current index. If 'Selected' is the current index, this will be the number of selected records.

Result

Number of records in RESULT

Return codes

10 No file open

Example

```
"SetIndex name"  
"NumRecs"  
say result          /* ==> 253 */  
"SetIndex selected"  
say result          /* ==> 16 */
```

## 1.21 openfile

OpenFile pathname

Opens a new file in the current window. Closes the existing file, if any. To open an additional file, issue the

OpenWin  
command first to obtain a

new window.

Result

None

Return codes

10 The file could not be opened. NB Any previous file will have been closed.

20 pathname not specified

Example

```
"openfile 'ram disk:Membership'" /* care with spaces in path names */
```

## 1.22 openwin

OpenWin

Opens a new window which becomes the current window. It will have no open file. Until a file is opened, the only commands that can be issued are

OpenFile  
and  
CloseWin  
.

Result

None

---

## Return Codes

10 The window could not be opened

## Example

```
pull filename
"openwin"
"openfile '"filename'" /* quotes in case filename contains spaces */
```

## 1.23 putfield

PutField field value

Sets the contents of field for the current record to value. The change will not take effect until you issue the

```
UpdRec
command. value must be
```

consistent with the field's type.

## Result

None

## Return codes

5 The value is inconsistent with the field type. The field is not updated  
 10 The field does not exist  
 20 Either field or value were omitted

## Example

```
"next"
newdate = "31-Mar-1996"
"putfield 'expiry date'" newdate
"updrec"
```

## 1.24 query

Query {FIELD | INDEX} type stem [name]

Obtains details about the current file.

stem A stem variable to receive the details

name An optional name of an object to be queried. If omitted, a summary of all objects of the requested type are returned.

## Results

FIELD without name

Returns the number of fields in stem.0 and the field names in stem.1 to stem.n where n is the number of fields.

FIELD with name

Returns field type in stem.type and the maximum length in



stem.length. Name is a field name

INDEX without name

Returns the number of indexes in stem.0 and the index names in stem.1 to stem.n

INDEX with name

Returns the number of index fields in stem.0 in the field names in stem.1 to stem.n. Name is an index name.

Return codes

10 Requested name does not exist

15 Syntax error. Either a required field was omitted or type was not FIELD or INDEX.

Example

```
"query field fld"
do i = 1 to fld.0 /* displays all field names */
say fld.i
end
```

## 1.25 refresh

Refresh

Redraws the screen display. This should not be required in a macro, but will be required if you want to update the display to reflect changes made from an external script.

Result

None

Return codes

None

Example

```
"refresh"
```

## 1.26 report

Report count [target [title]]

Produces the report defined for the current view. Writes 'count' records starting at the current record. The parameters are positional so 'title' cannot be specified without 'target'.

count Number of records to process. Specify -1 for all.

target Specify 'printer' to write report to the printer, otherwise the report is written to the screen.

title Up to 50 characters to be used instead of the title defined for

---

the report. Don't forget the extra quotes.

Note that the report definition is not changed.

Result

None

Return codes

10 No report has been defined for the current view.  
15 Could not allocate memory.

Example

```
"report -1 printer 'Report Title over-ride' " /* note quotes */  
  
"report 10 screen"
```

## 1.27 reqchoice

ReqChoice line1 [line2]

Displays a requester that displays two lines of text with OK and CANCEL buttons. Don't forget the extra set of quotes.

Result

None

Return codes

0 User chose OK.  
5 User chose CANCEL.  
20 No message text specified

Example

```
"reqchoice 'Delete requested' 'Are you sure' "  
if rc = 0 then  
"delrec"  
else  
say "Delete cancelled"
```

## 1.28 reqmsg

ReqMsg message

Displays the message in a requester. The message must be enclosed in quotes if it is more than one word.

Result

None

Return codes

20 No message specified

Example

---

```
"ReqMsg 'This message from ARexx script'"
```

## 1.29 reqstring

ReqString default [title]

Displays a requester with a string gadget to obtain input from the keyboard.

default        The default value to be placed in the string gadget. Specify  
              ' ' if no default

title         The title to be displayed in the requester window.

Result

RESULT will contain the users input string

Return codes

0    User pressed OK  
5    User pressed CANCEL  
20  No message specified

Example

```
"reqstring ' ' 'Please enter your name'"  
if rc = 0 then  
name = result
```

## 1.30 savefile

SaveFile

Writes any updates to disk, if any changes have been made.

Result

None

Return codes

None

Example

```
"savefile"
```

## 1.31 setfile

SetFile [filename]

Selects window containing filename as the current window or returns current file name if 'filename' is not specified.

The file must have been opened previously. 'Filename' is the file name

---

part only, not including disk and directory names.

#### Results

Current file name if issued without filename, otherwise none.

#### Return code

5 Unknown file name

#### Example

```
"setfile"  
say result
```

```
"setfile Images"
```

## 1.32 setindex

SetIndex [indexname]

Makes indexname the current index. Specify a name as SORTED to use the last sort sequence and SELECTED to use the last selection.

Returns name of the current index if issued without 'indexname'.

#### Results

Name of current index if issued without name, otherwise none.

#### Return codes

5 Could not find index

#### Example

```
"setindex sorted"
```

## 1.33 setview

SetView [viewname]

Makes the named view the current view and redraws the display using the new view. The viewname must include the extension, if any.

If 'viewname' is not specified, returns the name of the current view.

#### Result

Name of the current view if issued without 'viewname', otherwise none.

#### Return codes

5 Could not find view

#### Example

```
"setview namelist.view"
```

---

## 1.34 sort

```
Sort field1 {A | D} [field2 {A | D} ] ...
```

Creates a new index named SORTED in the specified sequence and makes 'sorted the current index.

field The field name to sort over

order A for ascending, D for descending

Both field and order must be specified for each sort field. You can switch between indexes, including SORTED and SELECTED using

```
SetIndex
```

.

Result

None

Return codes

10 One of the sort fields was not known.

20 Either no parameters specified or there was not an even number of parameters

Example

```
"sort country a surname a firstname a"
```

## 1.35 updrec

UpdRec

Commits an updated record to the file. The update is not necessarily written back to disk at this point.

Results

None

Return codes

10 Internal error occurred. Possibly a duplicate key occurred

Example

```
"putfield ExpiryDate 31-Mar-95"
```

```
"updrec"
```

## 1.36 wintofront

WinToFront

Moves the current window to the front of the display.

Results

None

---

Return codes

None

Example

"wintofront"

---