```
;; Macro Documentation for Questor
Macros
#begin macro
alert
Opens an alert panel.
message is the message in the panel.
buttons is the number of buttons (1 - OK only, 2 - OK and Cancel)
icon type is not used
result range is the cell where the result is put
If you click OK, the result will be 1.
If you click Cancel, the result will be 0.
Ex:
alert("You cannot do that!"; ; ;)
alert("Do you want to do this?"; 2; ;A1)
#end macro
#begin macro
beep
Plays the system beep.
#end macro
#begin macro
blank
Removes the values in the cells in range. If range is omitted, then the current
selection will be cleared. The format of the cells will not be affected.
#end macro
```

#begin macro

Makes the macro continue at location.

branch

```
location can be either a cell address or a range name.
Also see {dispatch}
#end macro
#begin macro
break
Programmatic interruption of macro execution. Equivalent to a user interrupt by
pressing Command-.
#end macro
#begin macro
break off
Disables the possibility for the user to break QScript execution by pressing
Command-.
Also see {break on} and {set break enabled}
Note: If the macro goes into an infinite loop, Questor will hang forever.
#end macro
#begin macro
break on
Enables the possibility for the user to break QScript execution by pressing
Command-
Also see {break off} and {set break enabled}
#end macro
#begin macro
calculate
Recalculates the worksheet, but does not update it on the screen. Call
{redisplay changed cells} to update the screen.
```

Also see {redisplay changed cells} and {recalculate}

#end macro

```
#begin macro
```

#### cell enter

Enters string in the cell specified by target\_location. If target\_location is omitted, the string will be entered in the active cell. You can enter formulas as well.

Note: To make the changes visible in the worksheet, you must use the {recalculate} macro.

Also see {set\_value\_at}
Ex:
{cell\_enter "hello world"}
{cell\_enter "=sin(0.5)"; A1}
#end macro

## #begin macro

### choose many

Opens a panel with up to eight switches, an OK button and a Cancel button. choice\_range is the range that contains the switch descriptions. This range should have three rows and one column for each switch:

- Each cell in the first row contains the text that should appear at the corresponding switch.
- Each cell in the second row contains the initial state for the corresponding switch. 1 means that the switch is on, 0 means that the switch is off.
- Each cell in the third row contains the state for the corresponding switch when the panel closes after the user clicks OK or Cancel. 1 means that the switch is on, 0 means that the switch is off.

 ${f result\_range}$  is the cell where the macro will put  ${f 0}$  if the user clicked Cancel, and  ${f 1}$  if the user clicked OK.

prompt is the prompt in the panel.

title is the tile of the panel.

Ex:

Assume the range A1:C3 looks like this:

## Snacks Popcorn Chips

0.00 0.00 0.00

{choose\_many A1:C3; D1; "Pick your choices..."; "Choose Panel"}
will open a panel with three switches that are not set.
#end macro

## #begin macro

#### choose one

Opens a panel with up to eight radio buttons, an OK button and a Cancel button. choice\_range is the range that contains the button descriptions. This range should have three rows and one column for each button:

- Each cell in the first row contains the text that should appear at the corresponding radio button.
- Each cell in the second row contains the initial state for the corresponding radio button. 1 means that the radio button is on, 0 means that the switch is radio button.
- Each cell in the third row contains macro commands or the range name of a macro that you want to execute when the corresponding button in the panel is on and the user clicks OK.

result\_range is the cell where the macro will put 0 if the user clicked Cancel,
and 1 if the user clicked OK.

prompt is the prompt in the panel.

title is the tile of the panel.

Ex:

Assume the range A1:C3 looks like this:

Yes No Maybe 1.00 0.00 0.00 m1 m2 m3

{choose\_one A1:C2; D1; "Pick your choice..."; "Choose Panel"}
will open a panel with three radio buttons. The first button will be selected.

If you select the second button and click OK, the macro  $\mathbf{m2}$  will execute. #end macro

```
#begin macro
close
Closes a file that has been opened with the {open} macro.
If only one file is opened, path can be omitted.
If more that one file is opened, path can be either the full path name, the full
file name or just the file name without extension.
Also see {open}
Ex:
If the file /tmp/my file.txt has been opened, all the following expressions will
close it:
{close "/tmp/my file.txt"}
{close "my file.txt"}
{close "my file"}
{close}
                        ; if it is the only open file
#end macro
```

### #begin macro

### color clear background

Sets the background color of the cells in **range** to clear (the default). If **range** is omitted, the active cell will be affected.

Note: To make the changes visible in the worksheet, you must use the  $\{recalculate\}\ macro.$ 

Ex:

```
{color_clear_background A1:B6}
{color_clear_background coord(1; 2; 1)} ; cell B1
#end_macro
```

#begin macro

## color set background

Sets the background color of the cells in **range** to a color specified in RGB. The **red, green** and **blue** color components should be between 0 and 1. If **range** is omitted, the active cell will be affected.

```
Note: To make the changes visible in the worksheet, you must use the
{recalculate} macro.
Also see {color set text}
Ex:
{color set background 1; 0.4; 0.6; A1:B6}
{color set background coord(1; 2; 1)} ; cell B1
#end macro
#begin macro
color set text
Sets the text color of the cells in range to a color specified in RGB. The red,
green and blue color components should be between 0 and 1. If range is omitted,
the active cell will be affected.
Note: To make the changes visible in the worksheet, you must use the
{recalculate} macro.
Also see {color set background}
Ex:
{color set text 1; 0.4; 0.6; A1:B6}
{color set text coord(1; 2; 1)} ; cell B1
#end macro
#begin macro
Moves the current selection steps number of rows down. If steps is omitted, then
the selection will be moved one row.
Same as {down}
#end macro
#begin macro
```

data fill

Fills output range with values.

To fill a range, you use three values: start, step and stop.

You can specify **now()** or **today()** as the start value to start filling from the current time or date.

- If **step** is not zero, the **stop** value is ignored. The range will be filled with values starting with the **start** value and using the **step** value to generate the next value.
- If **step** is zero, the range will be filled with values starting with the **start** value, stopping with the **stop** value, and automatically generating a step value. units specifies the type of fill:
- "linear" will fill the range with values:

start, start + 1 \* step, start + 2 \* step etc.

- "geometric" will fill the range with values:

start, start \* step, start \* step ^ 2, start \* step ^ 3 etc.

- "seconds" should be used if you enter a time as a start value. The step value will then represent seconds. The stop value is ignored.
- "minutes" should be used if you enter a time as a start value. The step value will then represent minutes. The stop value is ignored.
- "hours" should be used if you enter a time as a start value. The step value will then represent hours. The stop value is ignored.
- "days" should be used if you enter a date as a start value. The step value will then represent days. The stop value is ignored.
- "weeks" should be used if you enter a date as a start value. The step value will then represent weeks. The stop value is ignored.
- "months" should be used if you enter a date as a start value. The step value will then represent months. The stop value is ignored.
- "years" should be used if you enter a date as a start value. The step value will then represent years. The stop value is ignored.
- "random" will fill the selected range with random values between the start and the stop value. The step value is ignored.

**by\_columns** is used to define how the data should be filled: if it is true, the fill will be done by columns.

Note: To make the changes visible in the worksheet, you must use the {recalculate} macro.

Fv.

{data\_fill A1:A4; 93-01-01; 3; 0; "months"; true}
will put the following in the range A1:A4

```
01-Jan-93
01-Apr-93
01-Jul-93
01-Oct-93

{data_fill A1:A4; 0; 0; 1200; "linear"; true}
will put the following in the range A1:A4
0.00
400.00
800.00
1 200.00
#end_macro
```

## #begin\_macro

#### define

This program flow command works with a subroutine call to pass arguments to the subroutine. The subroutine call in the macro contains the arguments the subroutine will use. The define statement must be the first command of the subroutine. It specifies what cells the arguments should be placed in and whether each argument should be placed as a label or a value.

Use :string if you want the argument to be placed as a label, and :value if you want it to be placed as a value.

Ex:

```
Assume the range A12:B14 looks like this:

sub {define e1:value; e2:value; e3:value}

{print e1 + e2 + e3}

{return}
```

```
The macro command {sub 1; 2; 3} will print 6 in the console (i.e. 1 + 2 + 3)
The arguments will be stored in the cells E1, E2 and E3. #end macro
```

```
#begin_macro
```

### dispatch

This program flow command instructs the macro to branch to the location specified by the contents of the cell **location**. In other words, the **location** cell is used as variable. In contrast, the **{branch}** command starts executing at **location**.

Also see {branch}

Ex:

Assume the cell **B1** contains the string "A1":

## {dispatch B1}

will make the macro continue at cell A1
#end macro

#begin macro

## documents close all

Closes all open documents.

If  $discard\_changes$  is true, then the documents will close without a panel asking you to save changed documents.

#end\_macro

#begin macro

## documents hide all

Equivalent to choosing Hide All in the menu Documents.

#end\_macro

#begin\_macro

## document\_close

Equivalent to choosing Close in the menu Document.

If  ${f discard\_changes}$  is true, then the document will close without a panel asking you to save a changed document.

#end\_macro

```
#begin macro
document hide
Equivalent to choosing Hide in the menu Document.
#end macro
#begin macro
document inspect
Equivalent to choosing Inspect in the menu Document.
#end macro
#begin macro
document new report layout
Equivalent to choosing New Report Layout in the menu Document.
#end macro
#begin macro
document new window
Equivalent to choosing New Window in the menu Document.
#end macro
#begin macro
document new worksheet
Equivalent to choosing New Worksheet in the menu Document.
#end macro
#begin macro
document open
```

Equivalent to choosing Open in the menu Document.

```
#end macro
#begin macro
document recalculate
Equivalent to choosing Recalculate in the menu Document.
#end macro
#begin macro
document revert
Equivalent to choosing Revert to Saved in the menu Document.
#end macro
#begin macro
document save
Equivalent to choosing Save in the menu Document.
#end macro
#begin macro
document save all
Equivalent to choosing Save All in the menu Document.
#end macro
#begin macro
document save as
Equivalent to choosing Save As in the menu Document.
#end macro
#begin macro
document set startup
```

Sets the current document to the **startup document** for Questor. The startup document can also be specified in the **Launch & Misc Preferences Panel**. #end macro

## #begin macro

# down

Moves the current selection **steps** number of rows down. If **steps** is omitted, then the selection will be moved one row.

Same as {d}

#end macro

#begin macro

## edit clear cells

Removes the values in the cells in **range**. If **range** is omitted, then the current selection will be cleared.

Equivalent to choosing Clear in the menu Cells.

Note: To make the changes visible, you should use the macro {recalculate}. #end macro

#begin macro

## edit copy cells

Copies the cells in **range** to the pasteboard. If **range** is omitted, then the current selection will be copied.

Equivalent to choosing Copy in the menu Edit.

#end\_macro

#begin macro

## edit copy cells quick

Copies the cells in the range **origin** to the range **destination**. If **origin** is omitted, then the cells in the pasteboard will be used.

Note: To make the changes visible, you should use the macro {recalculate}.

#end macro

### #begin macro

## edit cut cells

Removes the cells in **range** completely. If **range** is omitted, then the current selection will be cut.

Equivalent to choosing Cut in the menu Edit.

Note: To make the changes visible, you should use the macro {redisplay\_windows}. #end macro

### #begin macro

## edit delete columns

Deletes the columns that are covered by **column\_range**. (Equivalent to choosing Delete Column in the menu Edit).

If column range is omitted, then the current selection will be used.

If partially is true, only the cells in  $column\_range$  will be removed. All cells to the right will be shifted to the left. (Equivalent to choosing  $Delete\ Cells$  in the menu Edit)

Note: To make the changes visible, you should use the macro {redisplay\_windows}. #end macro

# #begin macro

## edit delete rows

Deletes the rows that are covered by **row\_range**. (Equivalent to choosing *Delete Row* in the menu *Edit*).

If row range is omitted, then the current selection will be used.

If partially is true, only the cells in row\_range will be removed. All cells below will be shifted upwards.

Note: To make the changes visible, you should use the macro {redisplay\_windows}. #end\_macro

```
#begin macro
edit paste cells
Pastes the cells in the pasteboard to range in the worksheet. If range is larger
than one cell, then the contents of the pasteboard will be repeated the fill the
range. If range is omitted, then the current selection will be used.
Equivalent to choosing Paste Cells in the menu Edit.
Note: To make the changes visible, you should use the macro {recalculate}.
#end macro
#begin macro
Selects the upper left cell of the worksheet (cell A1).
Same as {firstcell}
Also see {lc}
#end macro
#begin macro
filesize
Retrieves the number of bytes in an open ASCII file.
location is the cell where the result will be stored.
path is the full name of the file.
If only one file is opened, path can be omitted.
If more that one file is opened, path can be either the full path name, the full
file name or just the file name without extension.
Ex:
{open "/tmp/my file"}
```

{write "a string"}

{filesize A1}
puts 7 in cell A1

{close}
#end macro

### #begin macro

#### firstcell

Selects the upper left cell of the worksheet (cell A1).

Same as {fc}

Also see {lastcell}

#end macro

### #begin macro

#### font bold

Makes the font boldface in all the cells in **range**. If **range** is omitted, then the selected cells will be affected.

Note: To make the changes visible, you should use the macro {recalculate}.

#end macro

### #begin macro

### font heavier

Makes the fonts heavier in all the cells in range. If range is omitted, then the selected cells will be affected.

Note: To make the changes visible, you should use the macro {recalculate}.

#end macro

## #begin\_macro

## font italic

Makes the font italic in all the cells in **range**. If **range** is omitted, then the selected cells will be affected.

Note: To make the changes visible, you should use the macro {recalculate}.

#end\_macro

## #begin macro

## font larger

Makes the fonts larger in all the cells in range. If range is omitted, then the

```
selected cells will be affected.
Note: To make the changes visible, you should use the macro {recalculate}.
#end macro
#begin macro
font lighter
Makes the fonts lighter in all the cells in range. If range is omitted, then the
selected cells will be affected.
Note: To make the changes visible, you should use the macro {recalculate}.
#end macro
#begin macro
font panel
Opens the font panel.
#end macro
#begin macro
font set
Sets the fonts in the cells in range.
Note: To make the changes visible, you should use the macro {recalculate}.
Ex:
{font set "Helvetica-Bold"; 16; A1:F1}
{font set "Courier"; 16; A1:F1}
#end macro
```

Makes the fonts smaller in all the cells in range. If range is omitted, then the

Note: To make the changes visible, you should use the macro {recalculate}.

#begin\_macro
font smaller

#end macro

selected cells will be affected.

## #begin macro

### font unbold

Turns off boldface in the fonts in the cells in **range**. If **range** is omitted, then the selected cells will be affected.

Note: To make the changes visible, you should use the macro {recalculate}.

#end macro

## #begin macro

## font unitalic

Turns off italic in the fonts in the cells in range. If range is omitted, then the selected cells will be affected.

Note: To make the changes visible, you should use the macro {recalculate}.

#end\_macro

### #begin macro

## for

This program flow command performs a subroutine a specified number of times. The number of repetitions is determined by the **start**, **step** and **stop** values.

Ex:

{for a1; 1; 10; 1; my\_subroutine}

calls my subroutine 10 times

#end macro

## #begin macro

## forbreak

This program flow command in a {for} command subroutine to stop the looping process. {forbreak} is usually used in combination with an {if} command that tests a condition on the worksheet. When the condition becomes true, the {forbreak} terminates the loop, returning control to the macro at the command following the {for} command.

```
#end macro
#begin macro
getlabel
Opens a panel where you can enter a string. prompt is the title of the panel.
The string that was entered in the panel will be put in cell location.
Ex:
{getlabel "Enter a string"; A1}
#end macro
#begin macro
getnumber
Opens a panel where you can enter a number. prompt is the title of the panel.
The number that was entered in the panel (or an error value if not a number)
will be put in cell location.
Ex:
{getnumber "Enter a number"; A1}
#end macro
#begin macro
getpos
Retrieves the position of the file pointer in a file opened by the {open} macro.
The first character position in a file is zero.
location is the cell where the result will be stored.
If only one file is opened, path can be omitted.
If more that one file is opened, path can be either the full path name, the full
file name or just the file name without extension.
Also see {setpos}
Ex:
{open "/tmp/my file"}
{qetpos A1}
puts 0 in cell A1
```

```
{write "a string"}
{getpos A1}
puts 8 in cell A1
{close}
#end macro
#begin macro
hide columns
Hides the columns that are covered by range, i.e the column width is set to 0.
If range is omitted, then the current selection will be used.
#end macro
#begin macro
hide questor
Hides the Questor application in Workspace.
#end macro
#begin macro
hide rows
Hides the rows that are covered by range, i.e the row height is set to 0. If
range is omitted, then the current selection will be used.
#end macro
#begin macro
home
Selects the upper left cell of the worksheet (cell A1).
Same as {firstcell}
#end macro
#begin macro
```

#### if

This program flow command tests if the **condition** argument is true. If it is true, the macro command that follows on the same line will be executed. Otherwise, the macro continues to execute from the next cell. Ex:

{if A1 = 12} {print "A1 is 12"}

#end\_macro

#begin macro

#### indicate

Displays string in the information field in the lower left corner of the worksheet window.

Same as {print status string}

Note: Questor will continue to display information messages in the information field, so the string will eventually be overwritten.

#end macro

#begin\_macro

## info help

Equivalent to choosing Help in the menu Info.

#end\_macro

#begin macro

## info\_license

Equivalent to choosing License in the menu Info.

#end macro

#begin macro

## info panel

Equivalent to choosing *Info Panel* in the menu *Info*.

#end\_macro

```
#begin macro
info preferences
Equivalent to choosing Preferences in the menu Info.
#end macro
#begin macro
info release notes
Equivalent to choosing Release Notes in the menu Info.
#end macro
#begin macro
Moves the current selection steps number columns to the left. If steps is
omitted, then the selection will be moved one column.
Same as {left}
#end macro
#begin macro
lastcell
Selects the lower right cell of the <u>used part</u> of the worksheet.
Same as {lc}
Also see {firstcell}
#end macro
#begin macro
lc
Selects the lower right cell of the used part of the worksheet.
Same as {lastcell}
Also see {fc}
```

```
#end macro
#begin macro
left.
Moves the current selection steps number columns to the left. If steps is
omitted, then the selection will be moved one column.
Same as {1}
#end macro
#begin macro
let
Places entry into target location.
Ex:
{let A1; 123}
will place 123 in cell A1
{let my name; A1 + 123}
will place the value in cell A1 plus 123 in the cell referenced by my name
#end macro
#begin macro
onerror
This program flow command allows macro execution to continue even if the macro
encounters a system error condition like a division by zero or reading a non-
existent file. If an error occurs, the macro will contine at branch location.
The error message will be printed in cell message location.
The {onerror} command should be placed before an error might occur.
Ex:
If you execute the macro open and enters a non-existant file, the {readln}
command will cause an error that will call the subroutine message:
open
        {onerror message}
        {getlabel "Open file"; A1}
        {open A1; "r"}
```

```
{readln A2; A1}
message {print "no such file"}
#end macro
#begin macro
open
Opens a new or an old file for reading or writing ASCII text.
path is the complete filename for the file.
mode specifies how the file will be accessed. If it is omitted, the file will be
opened in write ("w") mode.
"r" - opens and reads a file that already exists.
"m" - opens a modifies a file that already exists. You can use all the file
commands, including {write} and {writeln}.
"w" - creates a new file (erasing any file with that name). You can use all the
file commands, including {write} and {writeln}.
"a" - opens an existing file with the file pointer at the end of the file. You
can use all the file commands.
More than one file can be opened at the same time.
Also see {close}
Ex:
{open "/tmp/new file", "w"}
creates a new file.
{open "/tmp/old file", "r"}
opens the file /tmp/old file for reading.
#end macro
#begin macro
print
Prints value in the Console window.
#end macro
```

```
#begin macro
print page layout
Equivalent to choosing Page Layout in the menu Print.
#end macro
#begin macro
print print
Equivalent to choosing Print in the menu Print.
#end macro
#begin macro
print report layout
Equivalent to choosing Report Layout in the menu Print.
#end macro
#begin macro
print status
Displays string in the information field in the lower left corner of the
worksheet window.
Note: Questor will continue to display information messages in the information
field, so the string will eventually be overwritten.
#end macro
#begin macro
quit
```

This command causes a macro to stop. You usually put it at the end of your

macro.

#end macro

#begin macro

```
quit questor
Quits the Questor application. If discard changes is true, then Questor will
close without a panel asking you to save changed documents.
#end macro
#begin macro
Moves the current selection steps number of columns to the right. If steps is
omitted, then the selection will be moved one column.
Same as {right}
#end macro
#begin macro
range name create
Assigns a name to a range address.
Note: This is equivalent to naming a range in the Names aspect of the Document
inspector.
Ex:
{range name create "dates"; A1:B12}
assignes the name dates to the range A1:B12
#end macro
#begin macro
```

range name delete

{range name delete "dates"}

Ex:

#end macro

#begin macro

Deletes a defined range name in the document.

deletes the range name dates from the document

#### range name delete all

Deletes all defined range names in the document.

#end macro

#begin macro

### range name label create

Assigns range names to one or more single-cell ranges, using the text in adjacent cells as te range names.

direction specifies the position of the single-cell range(s) relative to
text\_range. You can specify "right", "left", "up" or "down". If you omit the
direction argument, "right" will be used.

Note: This is equivalent to choosing Label Range to Right/Left/Up/Down in the menu Ranges.

Ex:

### {range name label create "right"; A1:A3}

will assign the names in A1, A2 and A3 to the cell ranges to the right of respective cell (i.e. B1, B2 and B3) #end macro

#begin macro

## range name table

Creates a two-column table with the names of all defined ranges in the document listed alphabetically in the left column, and the corresponding range addresses listed in the right column.

 $\begin{table}{\bf table\_location} & \begin{table}{\bf specifies} & \begin{table}{\bf table} & \begin{table} & \begin{table}{\bf table} & \begin{table}{\bf$ 

#begin macro

## range note create

Attaches a note (comment) to a named range.

Ex:

{range note create "dates"; "a comment..."}

will add a note to the range name dates
#end macro

#begin macro

## range note delete

Deletes the note (comment) currently attached to a range name. #end macro

#begin macro

## range note delete all

Deletes all notes (comments) currently attached to a range names in the document.

#end\_macro

#begin macro

## range\_note\_table

Creates a three-column table with the names of all defined ranges in the document listed alphabetically in the left column, the corresponding range addresses listed in the middle column, and the corresponding note (comment) in the right column.

 $\begin{table}{table\_location} \textbf{ specifies the location of the upper left corner of the table.} \\ \textbf{\#end\_macro} \end{table}$ 

#begin macro

#### read

Retrieves a portion of an ASCII file that is opened with the {open} macro. The macro will start reading from the current position of the file pointer. The file pointer then moves to the first character after those that are read.

count is the number of characters that should be read.

location is the cell where the text will be stored.

path is the file name of the file.

```
If count is omitted, the macro will read one character.
If only one file is opened, path can be omitted.
If more that one file is opened, path can be either the full path name, the full
file name or just the file name without extension.
Also see {open}, {close} and {readln}
Ex:
{open "/tmp/oldfile", "r"}
{read 25; A1}
puts the 25 first characters in the file in cell A1
{close}
#end macro
#begin macro
readln
Retrieves a portion of an ASCII file that is opened with the {open} macro The
macro will start reading from the current position of the file pointer to the
next carriage return. The file pointer then moves to the first character after
those that are read.
location is the cell where the text will be stored.
If only one file is opened, path can be omitted.
If more that one file is opened, path can be either the full path name, the full
file name or just the file name without extension.
Also see {open}, {close} and {read}
Ex:
{open "/tmp/oldfile", "r"}
{readln; A1}
puts the first line of the file in cell A1
```

#begin\_macro

#### recalculate

{close}
#end macro

Recalculates and updates the worksheet on the screen. It is the same as a

```
{calculate} followed by a {redisplay changed cells}.
```

Note: This function should <u>always be called after changing cell values or cell</u> formatting.

Also see {calculate} and {redisplay\_changed\_cells} #end macro

#begin macro

## redisplay\_changed\_cells

Redisplays the <u>changed cells only</u> in the worksheet. This macro should be called after a {calculate}

Also see {calculate} and {recalculate}

#end macro

#begin macro

## redisplay\_windows

Redisplays all worksheet windows completely. Usually it is much faster to use {redisplay changed cells}.

Also see {redisplay\_changed\_cells}

#end macro

#begin macro

#### restart

This program flow command is used with subroutine calls to terminate the subroutine call and to clear the subroutine stack. #end macro

#begin macro

### return

This program flow command terminates a subroutine and directs the macro execution to the commands that follow the subroutine call in the calling macro. If the macro contains several consecutive subroutine calls, the macro returns to

```
the preceeding call each time it encounters {return}.
#end_macro

#begin_macro
right
Moves the current selection steps number of columns to the right. If steps is omitted, then the selection will be moved one column.
Same as {r}
#end_macro

#begin_macro
scroll_columns
Scrolls the current worksheet window amount number of columns. If amount is omitted, the worksheet window will be scrolled 1 column.
#end_macro
```

# #begin\_macro

## scroll rows

Scrolls the current worksheet window **amount** number of rows. If **amount** is omitted, the worksheet window will be scrolled 1 row. #end macro

#begin\_macro

# scroll\_to\_cell

Scrolls the current worksheet window so that the cell **position** scrolls to the upper left corner of the window.

Ex:

# {scroll\_to\_cell B2}

#end macro

```
#begin macro
scroll to column
Scrolls the current worksheet window so that the column number scrolls to the
left side of the window. You can also specify the column as a cell position.
Ex:
{scroll to column 3}
{scroll to column B2}
#end macro
#begin macro
scroll to row
Scrolls the current worksheet window so that the row number scrolls to the top
of the window. You can also specify the row as a cell position.
Ex:
{scroll to row 3}
{scroll to row B2}
#end macro
```

Positions the active cell within the current selection. If the current selection consists of more than one range, and they overlap, then **index** specifies which of

#begin macro

#end macro

Ex:

select active cell

{select range A1:B3}

the ranges that should be used.

selects cell B3 in range B3:C6

{select\_range\_append B3:C6}
{select\_active\_cell B3; 1}
selects cell B3 in range A1:B3
{select active cell B3; 2}

```
#begin macro
select range
Makes range the current selection.
Ex:
{select range A2:B6}
#end macro
#begin macro
select range append
Adds range to the current selection.
Ex:
{select range A2:B6}
{select_range_append C2:D6}
#end macro
#begin macro
select range relative
Selects a range whose corners are the active cell and a cell specified by
offsets from the active cell.
sheet offset is not used in version 1.0
Ex:
Assume the active cell is B2
{select range relative 2; 2}
will select the range B2:D4
#end macro
#begin macro
select range remove
Removes a specified range from the current selection.
```

#end macro

```
select range reshape
Moves a specified range in the current selection to location.
#end macro
#begin macro
setpos
Places the file pointer at position in a file that has bee opened with the
{open} macro. The first character position in a file is zero.
If only one file is opened, path can be omitted.
If more that one file is opened, path can be either the full path name, the full
file name or just the file name without extension.
Also see {open}
Ex:
Assume the file /tmp/my file.txt is opened.
Then all the following are correct:
{setpos 2; "/tmp/my file.txt"}
{setpos 2; "my file.txt"}
{setpos 2; "my file"}
#end macro
#begin macro
set break enabled
Disables or enables the possibility for the user to break macro execution by
pressing Command-.
Also see {break on} and {break off}
Note: If the macro code goes into an infinite loop, Questor will hang forever.
#end macro
#begin macro
```

Specifies the granularity that should be used by the Macro Tracer.

#begin macro

set trace granularity

```
granularity can be:
0 - trace only subroutine calls
1 - trace each subroutine row
2 - trace each element on each row
#end macro
#begin macro
set trace mode
Specifies the mode of the Macro Tracer.
mode can be:
0 - disabled
1 - trace enabled
2 - step enabled
#end macro
#begin macro
system
Executes string in a UNIX shell.
Ex:
{system "open /NextApps/Grab.app"}
launches the Grab application.
#end macro
#begin macro
text align
Sets the text alignment of the cells in data range to style, that can be one of
the following:
"left" - left aligned
"centered" - centered aligned
"right" - right aligned
"smart" - smart aligned (numbers right, strings left and dates centered)
If data range is omitted, then the current selection will be used.
```

```
Note: To make the changes visible in the worksheet, you must use the
{recalculate} macro.
Ex:
{text align "centered"; A1:B3}
#end macro
#begin macro
tools colors
Equivalent to choosing Colors in the menu Tools.
#end macro
#begin macro
tools console
Equivalent to choosing Console in the menu Tools.
#end macro
#begin macro
tools databases
Equivalent to choosing Databases in the menu Tools.
#end macro
#begin macro
tools input
Equivalent to choosing Input in the menu Tools.
#end macro
#begin macro
tools inspector
Equivalent to choosing Inspector in the menu Tools.
#end macro
```

```
#begin macro
tools macro tracer
Equivalent to choosing Macro Tracer in the menu Tools.
#end macro
#begin macro
tools toolbox
Equivalent to choosing ToolBox in the menu Tools.
#end macro
#begin macro
Moves the current selection steps number of rows up. If steps is omitted, then
the selection will be moved one row.
Same as {up}
#end macro
#begin macro
up
Moves the current selection steps number of rows down. If steps is omitted, then
the selection will be moved one row.
Same as \{u\}
#end macro
#begin macro
wait
Halts the execution for a number of milliseconds.
Ex:
```

{wait 2000}

```
will wait for 2 seconds
#end macro
```

## #begin macro

#### windowsoff

Turns off the screen update. This makes QScript and 1-2-3 macros execute faster and avoids flicker on the screen. You turn on the screen update with the command {windowson}.

#end macro

### #begin macro

#### windowson

Turns on the screen update that was turned of with the command {windowson}. #end macro

### #begin macro

### windows arrange

Equivalent to choosing Arrange in Front in the menu Windows.

#end macro

#begin macro

## windows close

Closes the current worksheet window. Equivalent to choosing *Close Window* in the menu *Windows*.

The **name** argument is ignored in version 1.0 #end macro

#begin macro

## windows miniaturize

Miniaturizes the current worksheet window. Equivalent to choosing Miniaturize

```
Window in the menu Windows.
The name argument is ignored in version 1.0
#end_macro
```

# #begin\_macro

## windows open

Makes the current worksheet window the key (topmost) window.

The **name** argument is ignored in version 1.0 #end macro

# #begin\_macro

## windows split

Splits the key worksheet window into two windows. Equivalent to choosing Split Window in the menu Windows.

#end macro

# #begin\_macro

windows\_tile
Tiles all the worksheet windows to fill the screen. Equivalent to choosing Tile

in the menu Windows.

#end\_macro

## #begin macro

### write

Writes a string into a text file that has been opened with the {open} macro. It starts writing at the current position of the file pointer.

string is the string that should be written to the file.

path is the file it should be written to.

The file pointer moves to the first character after the inserted string.

If only one file is opened, path can be omitted.

If more that one file is opened, path can be either the full path name, the full

```
file name or just the file name without extension.
Also see {open} and {writeln}
Ex:
{open "/tmp/new file.txt"}
Any of these are ok:
{write "a string"; "/tmp/new file.txt"}
{write "a string"; "new file.txt"}
{write "a string"; "new file"}
{write "a string"} ; if no other files are open
{close "/tmp/new file.txt"}
#end macro
#begin macro
writeln
Writes a string into a text file that has been opened with the {open} macro. It
starts writing at the current position of the file pointer and adds a carriage
return and a line feed after the string.
string is the string that should be written to the file.
path is the file it should be written to.
Also see {open} and {write}
Ex:
{open "/tmp/new file.txt"}
{writeln "a string"; "/tmp/new file.txt"}
{close "/tmp/new file.txt"}
#end macro
```